




Test Report issued under the responsibility of:



<b>TEST REPORT</b> <b>IEC 60601-1</b> <b>Medical Electrical Equipment</b> <b>Part 1: General requirements for basic safety and essential performance</b>	
Report Number..... : 220201763SHA-001 Date of issue..... : 2022-10-18 Amendment 1: 2023-05-04 Total number of pages ..... : 279	
Name of Testing Laboratory preparing the Report .....	Intertek Testing Services Shanghai Building No. 86, 1198 Qinzhou Road (North) Shanghai 200233 China
Applicant's name .....	GlobTek, Inc.
Address.....	186 Veterans Dr. Northvale, NJ 07647 USA
Test specification: Standard ..... : IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012, IEC 60601-1:2005/AMD2:2020 Test procedure ..... : CB Scheme Non-standard test method ..... : N/A	
TRF template used..... : IECEE OD-2020-F1:2020, Ed.1.3 Test Report Form No. .... : IEC60601_1U Test Report Form(s) Originator .... : UL(US) Master TRF ..... : 2022-05-13	
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<b>General disclaimer:</b> The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

..... <b>Test item description</b> ..... :	Medical Power Supply	
<b>Trade Mark(s)</b> .....	 <b>GlobTek®, Inc.</b>	
<b>Manufacturer</b> .....	Same as applicant	
<b>Model/Type reference</b> .....	GT*91099-***-**, GT*96600-***-**, GT*96600-*56*** (Refer to P8 to P9)	
<b>Ratings</b> .....	GT*91099-***-**: Input: 1.5A, 100-240V~, 50-60Hz; Output: 5-48VDC, Max. 60W GT*96600-***-**: Input: 1.5A, 100-240V~, 50-60Hz; Output: 5-54VDC, Max. 65W GT*96600-*56***: Input: 2.0A, 100-240V~, 50-60Hz; Output: 56VDC, Max. 70W	
<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<input checked="" type="checkbox"/>	<b>CB Testing Laboratory:</b>	Intertek Testing Services Shanghai
<b>Testing location/ address</b> ..... :		Building No. 86, 1198 Qinzhou Road (North) Shanghai 200233 China
<b>Tested by (name, function, signature)</b> ..... :		Vivian Xu(Engineer) 
<b>Approved by (name, function, signature)</b> ... :		Justin Yu (Mandated reviewer) 
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 1:</b>	
<b>Testing location/ address</b> ..... :		
<b>Tested by (name, function, signature)</b> ..... :		
<b>Approved by (name, function, signature)</b> ... :		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 2:</b>	
<b>Testing location/ address</b> ..... :		
<b>Tested by (name, function, signature)</b> ..... :		
<b>Witnessed by (name, function, signature) . :</b>		
<b>Approved by (name, function, signature)</b> ... :		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 3:</b>	
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 4:</b>	
<b>Testing location/ address</b> ..... :		
<b>Tested by (name, function, signature)</b> ..... :		
<b>Witnessed by (name, function, signature) . :</b>		
<b>Approved by (name, function, signature)</b> ... :		
<b>Supervised by (name, function, signature) :</b>		

**List of Attachments (including a total number of pages in each attachment):**

Attachment 1, Photo of EUT, total 51 pages

Attachment 2, USA National difference, total 4 pages ;

Attachment 3, Canadian National difference, total 13 pages ;

Attachment 4, Switzerland national differences, total 1 pages

Attachment 5, Japan National difference, total 14 pages

### Summary of testing:

**Tests performed (name of test and test clause):**

#### 4.11 Power input

### 5.7 Humidity preconditioning treatment

### 5.9.2 Determination of applied part and accessible parts

### 7.1.2 Legibility of marking

### 7.1.3 Durability of marking test

### 8.4.3 Plug discharge test

#### 8.5.4 Working voltage measurement

#### 8.6.4 Impedance and current-carrying capability

### 8.7 Leakage current test

### 8.8.3 Dielectric strength test

#### 8.8.4.1 Ball pressure test

#### 8.9.4 Creepage and clearance measurements

#### 9.4.2.2 Instability—overbalance excluding transport position

### 11.1 Excessive temperatures in ME EQUIPMENT

### 13.2 Single fault conditions

### 15.3.2 Push Test

### 15.3.3 Impact Test

#### 15.3.4 Drop Test

### 15.3.6 Molding Stress Relief

#### 15.5.1.2 Transformer short-circuit test

### 15.5.1.3 Transformer overload test

### 15.5.2 Transformer dielectric

### Amendment 1:

None

**Testing location:**

Intertek Testing Services Shanghai

Building No. 86, 1198 Qinzhou Road (North)  
200233 Shanghai China

N/A

**Summary of compliance with National Differences (List of countries addressed):**

The national difference of USA, Canada, Switzerland, Japan have been checked.

The group and national differences for the CENELEC countries have been also checked and found no national differences or deviations from the IEC 60601-1:2005/AMD2:2020 standard.

☒ **The product fulfils the requirements of IEC 60601-1:2005/AMD2:2020 & EN 60601-1:2006+A2:2021&AAMI ES60601-1:2005+A1:2012+A2:2021 & CAN/CSA-C22.2 No. 60601-1:2014 Ed.3+A2 & SN EN 60601-1:2006& JIS T 60601-1:2017**

**Statement concerning the uncertainty of the measurement systems used for the tests**

☒ **Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:**

**Procedure number, issue date and title:**

**GMS-QC-12 Estimation of Measurement Uncertainty, 1-July-2012 Initial Release.**

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

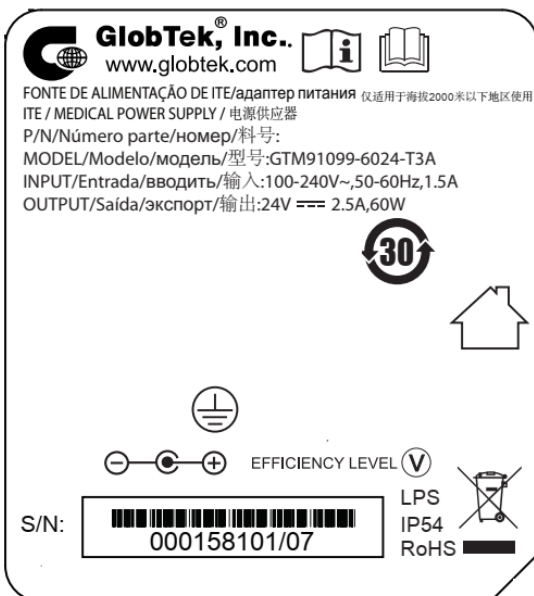
☐ **Statement not required by the standard used for type testing**




**Copy of marking plate:**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.





GT\*91099-\*\*\*.\*\*




GT\*96600-\*\*\*-\*\*

**GlobTek, Inc.**  
www.globtek.com 电源供应器






MEDICAL / ITE POWER SUPPLY  
PART NO/PARTE/料号: XXXXXXXXXXXXXXXX  
MODEL/MODELO/型号: GTM96600-6012-R3A  
INPUT/ENTRADA/输入: 100-240 V~, 50-60Hz, 1.5A  
OUTPUT/SAIDA/输出: 12V === 5 A




EFFICIENCY LEVEL VI

**GlobTek, Inc.**  
www.globtek.com


MEDICAL / ITE POWER SUPPLY /电源供应器  
PART NO/料号: TR9KE5000LCPCR6B2980  
MODEL/型号: GTM96600-6012-T2  
INPUT/输入: 100-240V~, 50-60Hz, 1.5A  
OUTPUT/输出: 12V === 5.0A, 60W






EFFICIENCY LEVEL VI

S/N:   
RoHS000158101/07

GT\*96600-\*56\*\*\*

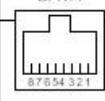
**GlobTek, Inc.**  
www.globtek.com

ITE / Medical Power Supply/电源供应器  
P/N(料号): GT966007056-T3-APOE  
Model (型号): GT-96600-7056-T3-AP  
Input (输入): 100-240V~, 50-60 Hz, 2A  
Output(输出): 56V=== 1.25 A, 70W



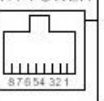
EFFICIENCY LEVEL VI

DATA



8 7 6 5 4 3 2 1

DATA+POWER



8 7 6 5 4 3 2 1

J1 Pins

1 Data Pair 1  
2 Data Pair 1  
3 Data Pair 2  
4 No Connection  
5 No Connection  
6 Data Pair 2  
7 No Connection  
8 No Connection

J2 Pins

1 Data Pair 1  
2 Data Pair 2  
3 Data Pair 2  
4 +VDC  
5 +VDC  
6 Data Pair 2  
7 -VDC  
8 -VDC

<b>Test item particulars.....:</b>	
<b>Classification of installation and use.....:</b>	transportable / portable / stationary / mobile / fixed / permanently installed / hand-held, body-worn for power adapter model. Final evaluation in end product.
<b>Supply Connection .....</b>	appliance coupler / non-detachable cord for power adapter model.
<b>Device type (component/sub-assembly/ equipment/ system).....:</b>	Component
<b>Intended use (Including type of patient, application location).....:</b>	PSU (external power adapter or internal power supply board)
<b>Mode of operation.....:</b>	Continuous
<b>Accessories and detachable parts included.....:</b>	None
<b>Other options include.....:</b>	None
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object..... : N/A	
- test object does meet the requirement..... : P (Pass)	
- test object was not evaluated for the requirement..... : N/E (collateral standards only)	
- test object does not meet the requirement..... : F (Fail)	
<b>Abbreviations used in the report</b>	
- normal condition..... : N.C.	- single fault condition ..... : S.F.C.
- means of Operator protection ..... : MOOP	- means of Patient protection .... : MOPP
<b>Testing.....:</b>	
<b>Date of receipt of test item .....</b>	2022-05-18
<b>Date (s) of performance of tests .....</b>	2022-05-18 to 2022-08-25
<b>General remarks:</b>	
<p>"(See Enclosure #)" refers to additional information appended to the report.</p> <p>"(See appended table)" refers to a table appended to the report.</p> <p><b>Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</b></p> <p>This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.</p>	

<b>Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60080-02:</b>	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided .....	<input checked="" type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>Not applicable</b>
<b>When differences exist; they shall be identified in the General product information section.</b>	
<b>Name and address of factory (ies) .....</b> : Factory 1 GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 USA Factory 2 GlobTek (Suzhou) Co., Ltd Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou, JiangSu 215021, China	
General product information and other remarks: Product covered by this report is medical power supply module. Desktop power supplies are provided with suitable external enclosure. The top and bottom parts of the enclosure are ultrasonic welded. Open frame power supplies are without external enclosure. The external enclosure will be provided within the end product. The products were tested to be suitable for connection to $\leq 16$ A (IEC) and $\leq 20$ A (USA) branch circuit in series. The unit is approved for TN mains star connections. The unit provides internally two fuses. The power supplies are rated class I or class II or class II units may have an optional functional earth connection. Open frame and encapsulated class I power supplies shall be properly bonded to the main protective bonding termination in the end product. All the types are designed for continuous operation. For GTM96600 series, primary R16B, C10, R1, R3 secondary R21, R22, C13, R24, C18 may change or optional depends on output voltage, For GTM96600 series, L1 is a jump wire. The following components were not equipped on Model GTM96600-6019-T3 (Class II with FE): Components on Primary circuit: R16B, C10, R1, R3 Components on Secondary circuit: R21, R22, C13, R24, C18, D6, C11, C12, R23, U2 Model similarity: GT*91099-***_** and GT*96600-***_** series The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety. The 2nd "*" denotes the rated output wattage designation, which can be "01" to "65", with interval of 1. When model= GT*91099-***_**, The 3rd "*" denotes the standard rated output voltage designation, which can be "09", "15", "24", "48"; The 4th "*" is optional deviation, subtracted from standard output voltage, which can be "-0.01" to "-23.9" with interval of 0.01, or blank to indicate no voltage different. The 3rd "*" and 4th "*" together denote the output voltage, with a range of 5–48 volts. When model=GT*96600-***_**, The 3rd "*" denote the standard rated output voltage designation, which can be "05" to "54" or "5.0" to "54.0" in 0.01V increments. The 4th "*" = Blank The 5th "*" = T2 means desktop class II with C8 AC inlet	

=T2A means desktop class II with C18 AC inlet  
 =T3 means desktop class I or class II with functional earth with C14 AC inlet  
 =T3A means desktop class I or class II with functional earth with C6 AC inlet  
 =T2L means desktop class II with C8 AC inlet and housing with a DC jack  
 =T2AL means desktop class II with C18 AC inlet and housing with a DC jack  
 =T3L means desktop class I or class II with functional earth with C14 AC inlet and housing with a DC jack  
 =T3AL means desktop class I or class II with functional earth with C6 AC inlet and housing with a DC jack  
 =R2 means hybrid desktop housing class II with C8 AC inlet  
 =R3A means hybrid desktop housing class I or class II with functional earth with C6 AC inlet  
 =F means Open Frame class I or class II with functional earth  
 =FW means Open Frame class II  
 =P2 means Encapsulated class II  
 =P3 means Encapsulated class I or class II with functional earth  
 =TP means desktop class II with power supply cord with plug  
 =TP3 means desktop class I or class II with functional earth with power supply cord with plug  
 =TW means desktop class II with input wire without plug  
 =TW3 means desktop class I or class II with functional earth with input wire without plug  
 The last \* denote any six character = 0-9 or A-Z or ( ) or – or blank for marketing purposes.  
 For details please refer to model list table.

GT\*96600-\*56\*\*\*

The 1st “\*” part can be ‘M’ or ‘-’ or ‘H’ for market identification and not related to safety.

The 2nd “\*” denotes the rated output wattage designation, which can be “01” to “70”, with interval of 1.

The 3rd “\*” =-T2 means desktop class II with C8 AC inlet

=-T2A means desktop class II with C18 AC inlet

=-T3 means desktop class I or class II with functional earth with C14 AC inlet

=-T3A means desktop class I or class II with functional earth with C6 AC inlet

The 4th “\*” = -AP means standing for Active POE with baby board.

= -PP means standing for Passive POE without baby board

= -SP means standing for Simple POE without baby board

The last \* denote any six character = 0-9 or A-Z or ( ) or – or blank for marketing purposes.

GT\*91099-\*\*\*-\*\*: Input: 1.5A, 100-240V~, 50-60Hz;

Output: 5-48VDC, Max. 60W

GT\*96600-\*\*\*-\*\*: Input: 1.5A, 100-240V~, 50-60Hz;

Output: 5-54VDC, Max. 65W

GT\*96600-\*56\*\*\*: Input: 2.0A, 100-240V~, 50-60Hz;

Output: 56VDC, Max. 70W

Alternate Rating:

For models GTM96600-2005-R2 / GTM96600-2005-R3A: output 5VDC, 4.0A at Tma=70 °C;

For models GTM96600-2412-R2 / GTM96600-2412-R3A: output 12VDC, 2.0A at Tma=70 °C;

For models GTM96600-2436-R2 / GTM96600-2436-R3A: output 36VDC, 0.66A at Tma=70 °C;

For models GTM96600-2448-R2 / GTM96600-2448-R3A: output 48VDC, 0.5A at Tma=70 °C;

For models GTM96600-2454-R2 / GTM96600-2454-R3A: output 54VDC, 0.44A at Tma=70 °C;

For models GT-96600-7056-T3-AP/ GT-96600-7056-T2-AP: output 56VDC, 1.25A at Tma=40 °C;

Model list:

GT\*96600-\*\*-T2/T2A/T3/T3A/T2L/T2AL/T3L/T3AL/P2/P3/TP/TP3/TW/TW3\* Desktop models or Encapsulated

Model	Output Voltage	Max. output current	Max. output power
GT*96600-**-	5-6.7VDC	8A	40W

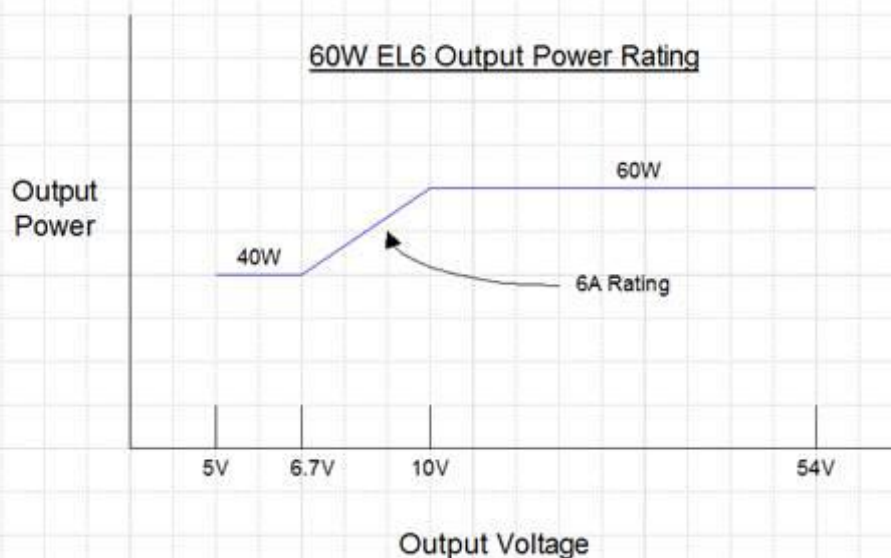
T2/T2A/T3/T3A/T2L/T2AL/T3L/T3AL/P2/P3/T P/TP3/TW/TW3*			
GT*96600-**- T2/T2A/T3/T3A/T2L/T2AL/T3L/T3AL/P2/P3/T P/TP3/TW/TW3*	6.8-11VDC	6A	60W
GT*96600-**- T2/T2A/T3/T3A/T2L/T2AL/T3L/T3AL/P2/P3/T P/TP3/TW/TW3*	11.1-54VDC	5.42A	65W

**GT\*96600-\*56-T2/T2A/T3/T3A-AP/PP/SP\* Desktop models**

GT*96600-*56-T2/T2A/T3/T3A-AP/PP/SP*	56VDC	1.25A	70W
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**GT\*96600-\*\*-R2/R3A\*External/Hybrid models**

Model	Output Voltage	Max. output current	Max. output power
GT*96600-**-R2/R3A	5-6.7VDC	8A	40W
GT*96600-**-R2/R3A	6.8-11VDC	6A	60W
GT*96600-**-R2/R3A	11.1-54VDC	5.42A	65W



**GT\*91099-\*\*\*-T2/T2A/T3/T3A/F/FW/P2/P3\*External/Hybrid desktop or Open Frame or Encapsulated**

Model	Output Voltage	Max. output current	Max. output power
GT*91099-*09*-T2/T2A/T3/T3A/F/FW/P2/P3*	5-9VDC	6A	50W
GT*91099-*15*- T2/T2A/T3/T3A/F/FW/P2/P3*	9.1-15VDC	6A	60W
GT*91099-*24*- T2/T2A/T3/T3A/F/FW/P2/P3*	15.1-24VDC	4A	60W
GT*91099-*48*- T2/T2A/T3/T3A/F/FW/P2/P3*	24.1-48VDC	2.5A	60W

**Note: For 91099series, T2A model use C8 inlet.**

**Technical Considerations:**

Scope of Power Supply evaluation defers the following clauses to be determined as part of the end product investigation:

- Clause 7.5 (Safety Signs),
- Clause 7.9 (Accompanying Documents),

- Clause 9 (ME Hazard), except 9.1 and 9.3 are evaluated,
- Clause 10 (Radiation),
- Clause 11.7 (Biocompatibility),
- Clause 14 (PEMS),
- Clause 16 (ME Systems)
- Clause 17 (EMC)
- Usability was excluded from this investigation.

Note: This report is not valid unless used in conjunction with the original report.  
Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

**Amendment 1:**

The original test report ref. No. 220201763HA-001, dated 2022-10-18; issued by Intertek Testing Services Shanghai, was amendment on 2023-05-04 , include the following changes and/or additions:

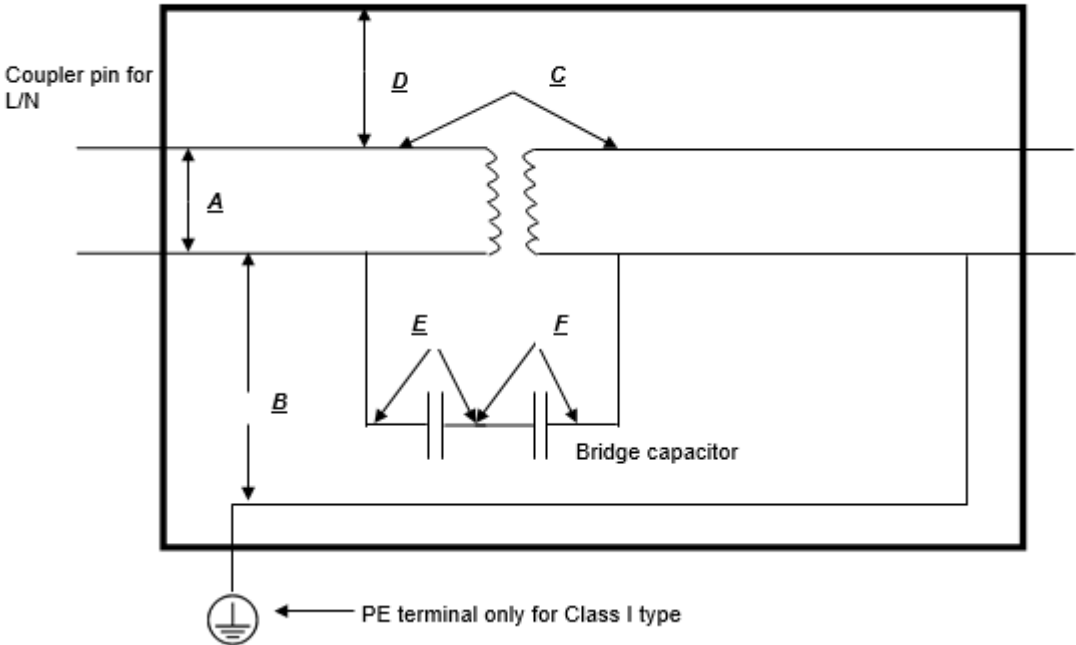
1. Corrected the national difference from "EN 60601-1:2006+A1: 2013" to "EN 60601-1:2006+A2: 2021",  
From "AAMI 60601-1:2005 + AMD 1:2012" to "AAMI ES60601-1:2005+A1:2012+A2:2021" ,from  
"CAN/CSA-C22.2 No. 60601-1:14" to "CAN/CSA-C22.2 No. 60601-1:2014 Ed.3+A2".

After review, no test need be done.

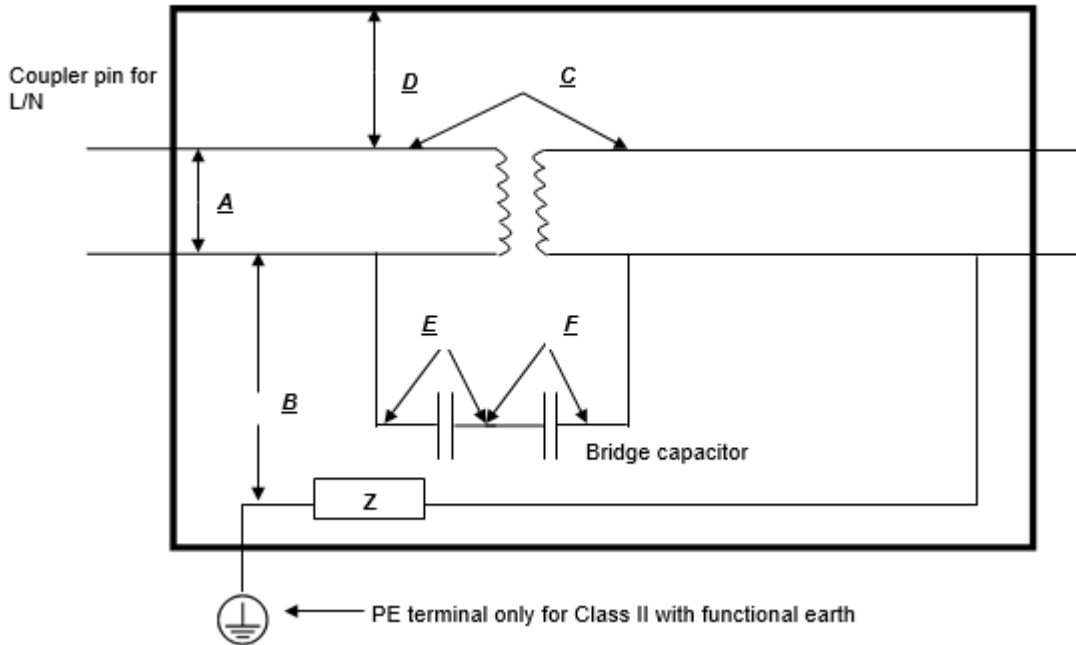
IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict

INSULATION DIAGRAM

(E1) Earthed output

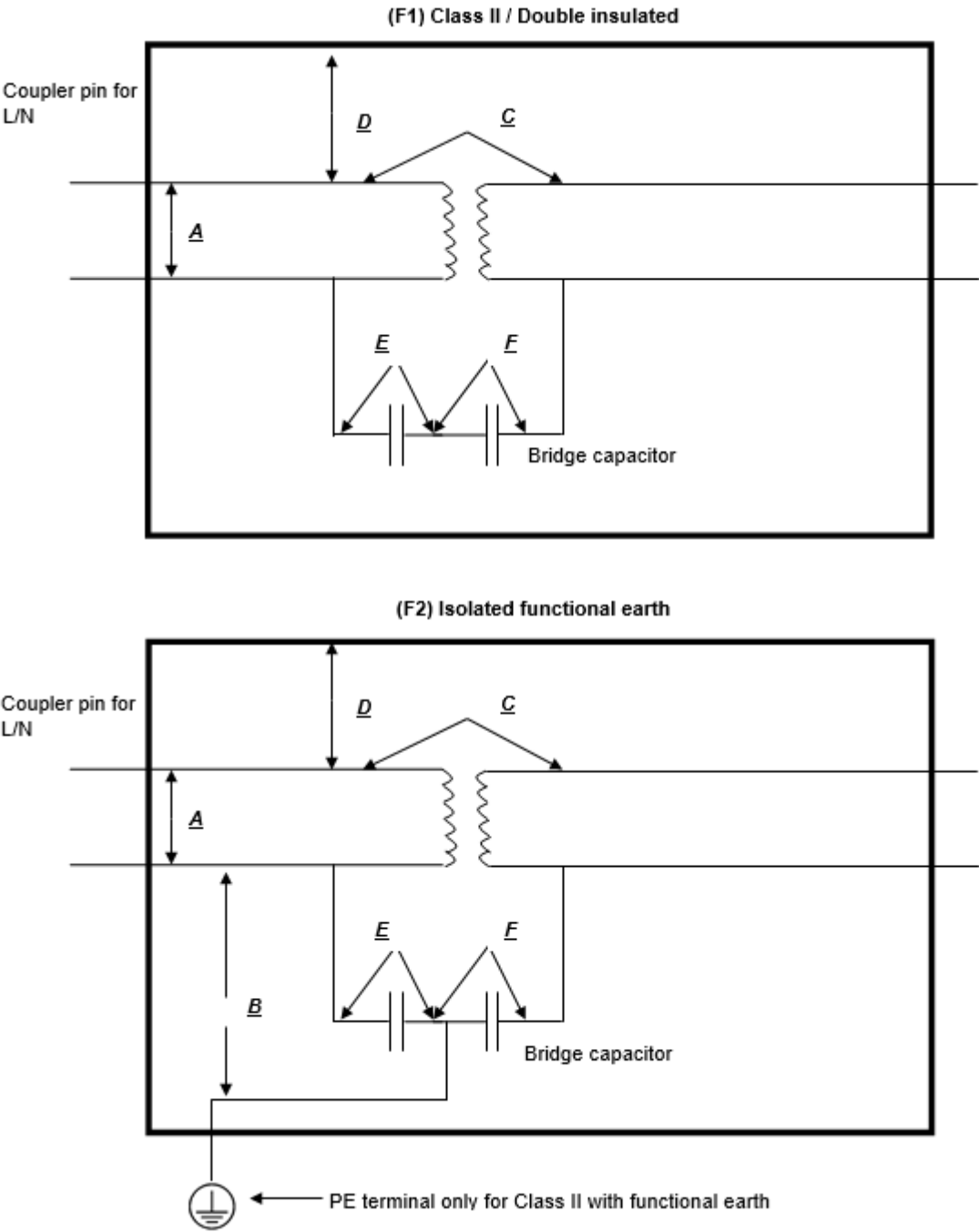


(E2) Class II, FE, Earthed output



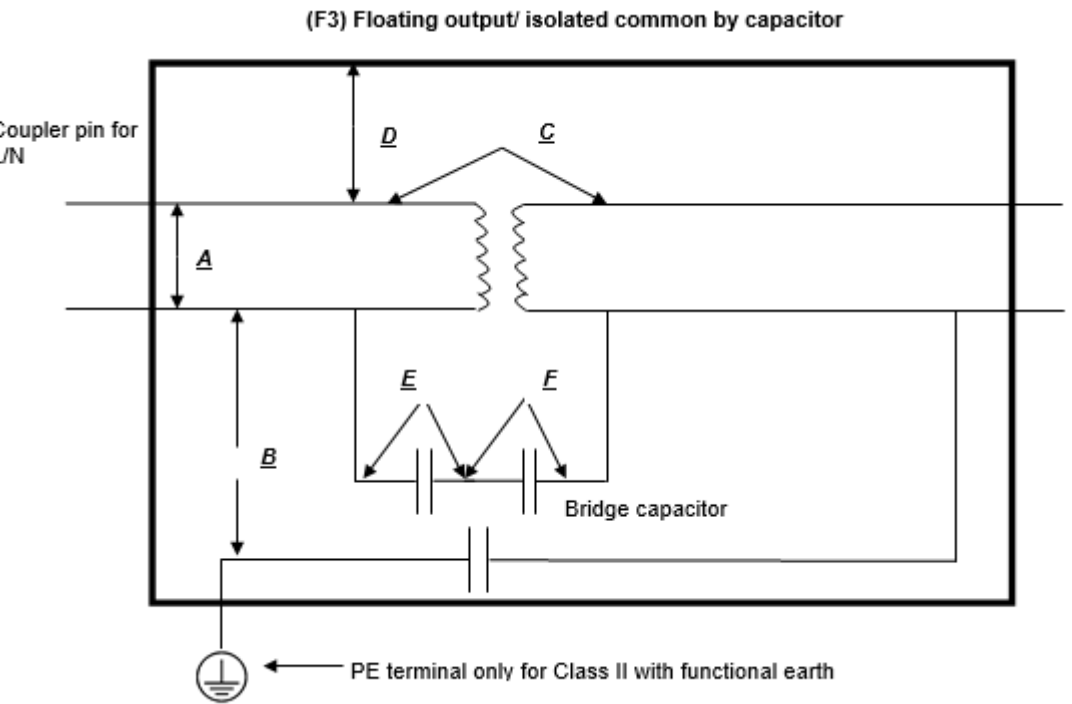
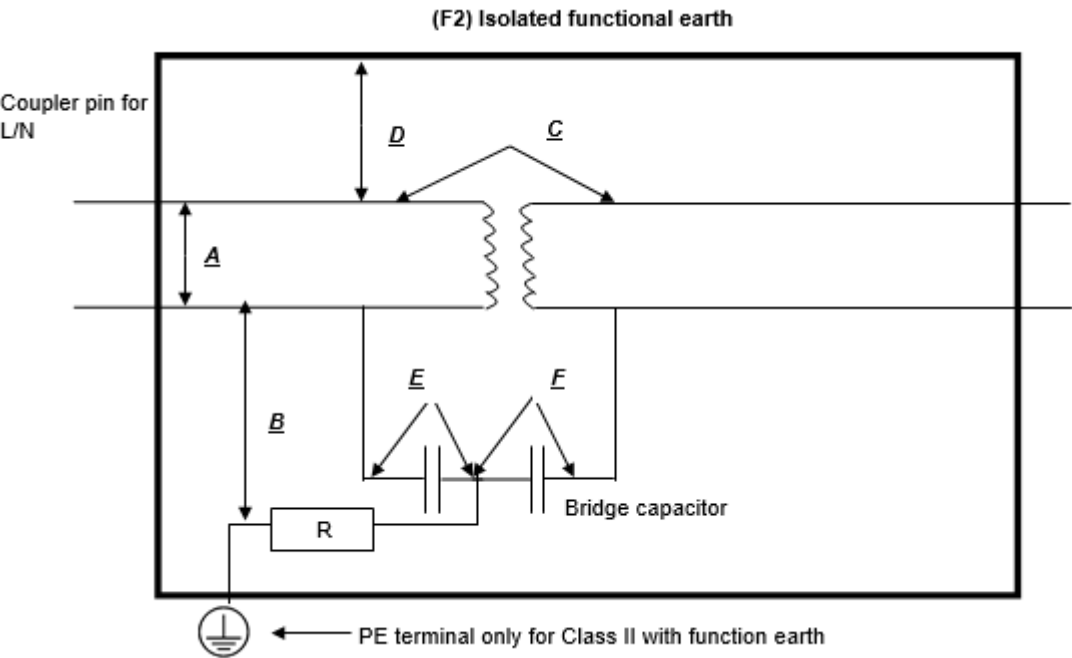


IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict



For Model GTM96600-6019-T3 structure: use this diagram (F2)

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict



IEC 60601-1									
Clause	Requirement + Test				Result - Remark				Verdict
<b>TABLE: INSULATION DIAGRAM(GT*91099-***-**series)</b>									P
Pollution degree .....				2				—	
Overvoltage category .....				II				—	
Altitude .....				4000m				—	
Additional details on parts considered as applied parts .....				<input checked="" type="checkbox"/> None <input type="checkbox"/> Areas _____ (See Clause 4.6 for details)				—	
Area	Number and type of Means of Protection: MOOP, MOPP	CTI	Working voltage		Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	Remarks
			V <sub>rms</sub>	V <sub>pk</sub>					
<b>Encapsulated type only:</b>									
For class I and II construction									
A	1MOOP	IIIb	240	--	3.0	2.1	6.4	6.4	Line – Neutral before fuse 1)
E	1MOPP	IIIb	240	--	4.0	2.9	6.1	2.9	CY1 pin1 – trace 1) 3)
F	1MOPP	IIIb	240	--	4.0	2.9	6.1	6.1	Trace – CY2 pin 2 1)
C	2MOPP	IIIb	240	--	8.0	5.7	12.3	7.2	U1 pri.pin – sec. pin 1) 3)
C	2MOPP	IIIb	312	--	12.0	8.0	13.1	9.9	T1 pri.pin – sec. RS29 1) 3)
C	2MOPP	IIIb	312	--	12.0	8.0	18.0	18.0	T1 pri.winding /core – sec. pin ***)
D	--	--	--	--	--	--	4)	4)	4)
B	--	--	--	--	--	--	5)	5)	5)
<b>Open frame type only:</b>									
For class II construction									
A	1MOOP	IIIb	240	340	3.0	2.1	6.4	6.4	Line – Neutral before fuse 1)
E	1MOPP	IIIb	240	352	4.0	2.9	6.1	2.9	CY1 pin1 – trace 1) 3)
F	1MOPP	IIIb	240	352	4.0	2.9	6.1	6.1	Trace – CY2 pin 2 1)
C	2MOPP	IIIb	240	384	8.0	5.7	12.3	7.2	U1 pri.pin – sec. pin 1) 3)
C	2MOPP	IIIb	312	544	12.0	8.0	13.1	9.9	T1 pri.pin – sec. RS29 1) 3)

IEC 60601-1									
Clause	Requirement + Test					Result - Remark			Verdict
C	2MOPP	IIIb	312	544	12.0	8.0	18.0	18.0	T1 pri.winding /core – sec. pin ***)
For class I construction, difference with class II construction only									
B	1MOPP	IIIb	240	340	4.0	2.9	4.7	4.7	Line/Neutral – PE terminal trace (for Class I) (floating for class II, shall be evaluated in end product) 1)
<b>External/Desktop type only:</b>									
For class II construction									
A	1 MOOP	IIIb	240	340	3.0	2.1	6.4	6.4	Line – Neutral before fuse 1)
D	2 MOPP	IIIb	240	340	8.0	5.7	13.4	13.4	HS1 pri. to external accessible part through seam 2)3) *)
C	2 MOPP	IIIb	240	352	8.0	5.7	12.2	9.0	CY1 pin1 – CY2 pin 2 1) 3)
C	2 MOPP	IIIb	240	384	8.0	5.7	12.3	7.2	U1 pri.pin – sec. pin 1) 3)
C	2 MOPP	IIIb	312	544	12.0	8.0	13.1	9.9	T1 pri.pin – sec. RS29 1) 3)
C	2 MOPP	IIIb	312	544	12.0	8.0	18.0	18.0	T1 pri.winding /core – sec.pin ***)
For class I construction, difference with class II construction only									
B	1MOPP	IIIb	240	340	4.0	2.9	5.2	5.2	Line/Neutral – PE terminal 2)
B	1MOPP	IIIb	240	340	4.0	2.9	9.0	9.0	CY1, CY2 to PE(CY2 sec. pin) 1)
<b>Supplementary Information:</b> 10N Test performed on the following component(s): HS1, CY1, CY2, HS2, C7, C3, C2, U2, LED Glues are added on C1, C3, C2, U2, LED. *) Heat shrinkable tube provided on HS2(0.4mm), insulation tape on HS1 is for functional use only. **) This equipment is intended to be operated under altitude up to 4000m, so the clearance is multiplied by the altitude correction factor (1.14), specified in table 8 of IEC 60601-1. ***) TIW are used on the secondary									

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Clause	Requirement + Test	Result - Remark	Verdict

winding, transformer T1 core considered as primary.  
 1) On PCB. 2) On components. 3) With a Slot >1mm  
 - TIW used on secondary winding, T1 core consider as pri., 3 layers of insulation tapes wrapped on T1 core, detail see photos.  
 4) Encapsulated type has an enclosure of thickness 2.1mm enclosing 3 sides, evaluation shall be considered when built into end product.  
 5) For Encapsulated type, there is not earthing terminal for earthing wire in primary circuit, earthing wire is located on secondary circuit only, so no insulation B exist.  
 Multiplication factor for MOOP: 1.29; Multiplication factor for MOPP: 1.14.

TABLE: INSULATION DIAGRAM (GT*96600-***-** series, GT*96600-*56***)									P
Pollution degree .....					2				—
Overvoltage category .....					II				—
Altitude .....					5000m				—
Additional details on parts considered as applied parts .....					<input checked="" type="checkbox"/> None <input type="checkbox"/> Areas _____ (See Clause 4.6 for details)				—
Area	Number and type of Means of Protection: MOOP, MOPP	CTI	Working voltage		Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	Remarks
			V <sub>rms</sub>	V <sub>pk</sub>					
A	1MOOP	IIIb	240	340	2.96 <sup>7</sup>	2.96 <sup>1</sup>	6.4	6.4	Opposite polarity of mains part
B	1MOPP	IIIb	240 <sup>3</sup>	--	4.0 <sup>2</sup>	3.225 <sup>1</sup>	4.8	4.8	Line/Neutral to PE terminal trace (for Class I) (floating for class II, shall be evaluated in end product) <sup>8</sup>
C	2MOPP	IIIb	240 <sup>3</sup>	--	7.84 <sup>2</sup>	6.45 <sup>1</sup>	8.8 <sup>4</sup>	7.6 <sup>4</sup>	Mains part to secondary circuits (Optocoupler)
C	2MOPP	IIIb	240 <sup>3</sup>	--	7.84 <sup>2</sup>	6.45 <sup>1</sup>	8.2 <sup>5</sup>	7.4 <sup>5</sup>	Mains part to secondary circuits (Transformer)
C	2MOPP	IIIb	240 <sup>3</sup>	--	7.84 <sup>2</sup>	6.45 <sup>1</sup>	8.2	8.2	Mains part to secondary circuits (Along

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Clause	Requirement + Test					Result - Remark			Verdict
									PCB trace)
D	2MOOP	IIIb	240	340	5.92 <sup>7</sup>	5.92 <sup>1</sup>	9	9	Internal mains part to accessible outer enclosure
E	1MOPP	IIIb	240 <sup>3</sup>	--	4.0 <sup>2</sup>	2.9 <sup>1</sup>	5.2	5.2	Mains part to secondary circuits (Y capacitor)
F	1MOPP	IIIb	240 <sup>3</sup>	--	4.0 <sup>2</sup>	2.9 <sup>1</sup>	5.2	5.2	Mains part to secondary circuits (Y capacitor )
Supplementary Information:									
1) Multiplication factor for MOOP: 1.48; Multiplication factor for MOPP: 1.29. 2) Linear interpolation is applied to the determination of required creepage. 3) The working voltage is highest measured value which acquired by testing all the models listed in the report at the rated input voltage, but not less than the rated input voltage. 4) The minimum creepage and clearance is selected from all the types of optocouplers. 5) The transformer core regarded as primary conductor is wrapped with 2 layers of insulating tape and the secondary pin-out adopts the jump lead wire soldering. 6) There is a slot min. 1 mm wide between two sides of pads of components. 7) A CREEPAGE DISTANCE cannot be less than the required air clearance. 8) For Encapsulated type, there is not earthing terminal for earthing wire in primary circuit, earthing wire is located on secondary circuit only, so no insulation J exist.									

TABLE: INSULATION DIAGRAM (GTM96600-6019-T3)									P
Pollution degree .....					2				—
Overvoltage category .....					II				—
Altitude .....					5000m				—
Additional details on parts considered as applied parts.....					None Areas (See Clause 4.6 for details)				—
Area	Number and type of Means of Protection: MOOP, MOPP	CTI	Working voltage		Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	Remarks
			Vrms	Vpk					
A	1MOOP	IIIb	240	340	2.96 <sup>7</sup>	2.96 <sup>1</sup>	6.4	6.4	Opposite polarity of mains part

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Clause	Requirement + Test					Result - Remark			Verdict
B	1MOPP	IIIb	240 <sup>3</sup>	340	4.00 <sup>2</sup>	3.225 <sup>1</sup>	5.2	5.2	Line/Neutral to PE terminal trace
C	2MOPP	IIIb	240 <sup>3</sup>	340	7.90 <sup>2</sup>	6.45 <sup>1</sup>	9.2	7.6	Mains part to secondary circuits (Optocoupler)
C	2MOPP	IIIb	302 <sup>3</sup>	568	11.7	11.7	12	12	Mains part to secondary circuits (Transformer)
C	2MOPP	IIIb	240 <sup>3</sup>	351	8.0	6.50 <sup>1</sup>	8.4	8.4	Mains part to secondary circuits (Along PCB trace)
D	2MOPP	IIIb	240	340	7.90 <sup>2</sup>	6.45 <sup>1</sup>	13	13	Internal mains part to accessible outer enclosure
E	1MOPP	IIIb	240 <sup>3</sup>	340	4.00 <sup>2</sup>	3.225 <sup>1</sup>	4.5	4.5	Under CY1
F	1MOPP	IIIb	240 <sup>3</sup>	340	4.00 <sup>2</sup>	3.225 <sup>1</sup>	4.5	4.5	Under CY2
E	1MOPP	IIIb	240 <sup>3</sup>	340	4.00 <sup>2</sup>	3.225 <sup>1</sup>	4.5	4.5	Mains part (Heatsink HS1) to Functional Earth wire terminal
F	1MOPP	IIIb	240 <sup>3</sup>	340	4.00 <sup>2</sup>	3.225 <sup>1</sup>	4.3	4.3	Functional Earth wire terminal to Secondary part (CY2 secondary pin)
Supplementary Information: 1) Multiplication factor for MOOP: 1.48; Multiplication factor for MOPP: 1.29. 2) Linear interpolation is applied to the determination of required creepage. 3) The working voltage is highest measured value which acquired by testing all the models listed in the report at the rated input voltage, but not less than the rated input voltage. 4) The minimum creepage and clearance is selected from all the types of optocouplers. 5) The transformer core regarded as primary conductor is wrapped with 2 layers of insulating tape and the secondary pin-out adopts the jump lead wire soldering. 6) There is a slot min. 1 mm wide between two sides of pads of components. 7) A CREEPAGE DISTANCE cannot be less than the required air clearance.									

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Clause	Requirement + Test	Result - Remark	Verdict

**INSULATION DIAGRAM CONVENTIONS and GUIDANCE:**

**A measured value must be provided in the value columns for the device under evaluation. The symbol > (greater than sign) must not be used. Switch-mode power supplies must be re-evaluated in the device under evaluation therefore N/A must not be used with a generic statement that the component is certified.**

**Insulation diagram is a graphical representation of equipment insulation barriers, protective impedance and protective earthing. If feasible, use the following conventions to generate the diagram:**

- All isolation barriers are identified by letters between separate parts of diagram, for example separate transformer windings, optocouplers, wire insulation, creepage and clearance distances.
- Parts connected to earth with large dots are protectively earthed. Other connections to earth are functional
- Applied parts are extended beyond the equipment enclosure and terminated with an arrow.
- Parts accessible to the operator only are extended outside of the enclosure but are not terminated with an arrow.



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Clause	Requirement + Test	Result - Remark	Verdict
<b>4</b>	<b>GENERAL REQUIREMENTS</b>		<b>P</b>
<b>4.1</b>	<b>Requirements of this standard applied in NORMAL USE and reasonably foreseeable misuse</b>	Risk management procedure GTQPR05000 A2 5.0	<b>P</b>
<b>4.2</b>	<b>RISK MANAGEMENT PROCESS FOR ME EQUIPMENT OR ME SYSTEMS</b>		<b>P</b>
4.2.2	General requirement for RISK MANAGEMENT - PROCESS complies with ISO14971 (2019).....:	See Appended RM Results Table 4.2.2.	<b>P</b>
4.2.3	Evaluating RISK		<b>P</b>
4.2.3.1	a) Compliance with the standard reduces residual risk to an acceptable level	Risk management procedure GTQPR05000	<b>P</b>
	b) Manufacturer has defined risk acceptability criteria in the RISK MANAGEMENT PLAN..... :	Risk management plan GT-RMPLAN2014-001	<b>P</b>
	c) When no specific technical requirements provided manufacturer has determined HAZARDS or HAZARDOUS SITUATIONS exists.		<b>P</b>
	- HAZARDS or HAZARDOUS SITUATIONS have been evaluated using the RISK MANAGEMENT PROCESS.		<b>P</b>
4.2.3.2	MANUFACTURER has addressed HAZARDS or HAZARDOUS SITUATIONS not specifically addressed in the IEC 60601-1 series.		<b>P</b>
4.3	Performance of clinical functions necessary to achieve intended use or that could affect the safety of the me equipment or me system were identified during risk analysis.	No essential performance	<b>N/A</b>
	- Performance limits were identified in both NORMAL CONDITION and SINGLE FAULT CONDITION.		<b>N/A</b>
	- Loss or degradation of performance beyond the limits specified by the MANUFACTURER were evaluated		<b>N/A</b>
	- Functions with unacceptable risks are identified as ESSENTIAL PERFORMANCE.....:		<b>N/A</b>
	- RISK CONTROL measures implemented		<b>N/A</b>
	- Methods used to verify the effectiveness of RISK CONTROL measures implemented		<b>N/A</b>
<b>4.4</b>	EXPECTED SERVICE LIFE stated in RISK MANAGEMENT FILE.....:	5 years	<b>P</b>
<b>4.5</b>	Alternative RISK CONTROL methods utilized:		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	RESIDUAL RISK resulting from the alternative RISK CONTROL measures or tests is acceptable and comparable to RESIDUAL RISK resulting from application of this standard.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	No alternative risk control method.	<b>N/A</b>
	Alternative means based scientific data or clinical opinion or comparative studies .....		<b>N/A</b>
4.6	RISK MANAGEMENT PROCESS identifies parts that can come into contact with PATIENT but not defined as APPLIED PARTS, subjected to the requirements for APPLIED PARTS, except for Clause 7.2.10 .....	No such parts.	<b>N/A</b>
	MANUFACTURER assesses the risk of accessible parts coming into contact with the patient: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		<b>N/A</b>
	Assessment identified the APPLIED PART TYPE requirements .....		<b>N/A</b>
4.7	ME EQUIPMENT remained SINGLE FAULT SAFE, or the RISK remained acceptable as determined by Clause 4.2.....	GT-RM2013-010 Cl. 6.3 EL5	<b>P</b>
	MANUFACTURER RISK ANALYSIS was used to determine failures to be tested.....: (ISO 14971 Cl. 4.2-4.4)	GT-RM2013-010 Cl. 6.3 EL5	<b>P</b>
	Failure of any one component at a time that could result in a HAZARDOUS SITUATION, including those in 13.1, simulated physically or theoretically.....	See Appended Table 13.2 for simulated physical test.	<b>P</b>
4.8	All components and wiring whose failure could result in a HAZARDOUS SITUATION used according to their applicable ratings, unless specified .....	All components and wiring used according to applicable rating.	<b>P</b>
	Components and wiring exception in the standard or by RISK MANAGEMENT PROCESS		<b>P</b>
	RISK MANAGEMENT PROCESS assesses components to identify components where the failure results in a HAZARDOUS SITUATION for components used outside their ratings .....	No components used outside their ratings.	<b>N/A</b>
	(ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		
	MANUFACTURER identified components where the failure results in a HAZARDOUS SITUATION .....	See Table 8.10 b.	<b>P</b>
	Components determined to be acceptable where used as a MEANS OF PROTECTION .....		<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	Reliability of components used as MEANS OF PROTECTION assessed for conditions of use in ME EQUIPMENT, and they complied with one of the following		<b>P</b>
	a) Applicable safety requirements of a relevant IEC or ISO standard		<b>P</b>
	b) Requirements of this standard applied in the absence of a relevant IEC or ISO standard		<b>P</b>
4.9	A COMPONENT WITH HIGH-INTEGRITY CHARACTERISTICS provided and selected appropriately.....:	No component with high-integrity characteristics	<b>N/A</b>
	RISK MANAGEMENT FILE includes an assessment to determine if the failure of components results in unacceptable RISK.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		<b>N/A</b>
	Components identified and required to be COMPONENTS WITH HIGH INTEGRITY CHARACTERISTIC:		<b>N/A</b>
4.10	<b>Power supply</b>		<b>P</b>
4.10.1	ME EQUIPMENT is suitable for connection to indicated power source (select applicable) .....	Suitable for connection to a SUPPLY MAINS.	<b>P</b>
4.10.2	Maximum rated voltage for ME EQUIPMENT intended to be connected to SUPPLY MAINS:	Not hand-held equipment.	<b>N/A</b>
	- 250 V for HAND-HELD ME EQUIPMENT (V).....:	100-240Vac, single phase, less than 4KVA	<b>P</b>
	– 250 V d.c. or single-phase a.c., or 500 V poly-phase a.c. for ME EQUIPMENT and ME SYSTEMS with a RATED input ≤ 4 kVA (V) .....	100-240Vac, single phase, less than 4KVA	<b>N/A</b>
	– 500 V for all other ME EQUIPMENT and ME SYSTEMS		<b>N/A</b>
4.11	<b>Power input</b>		<b>P</b>
	Steady-state measured input of ME EQUIPMENT or ME SYSTEM at RATED voltage or voltage range and at operating settings indicated in instructions for use didn't exceed marked rating by more than 10%.....:	See appended Table 4.11	<b>P</b>
<b>5</b>	<b>GENERAL REQUIREMENTS FOR TESTING ME EQUIPMENT</b>		<b>P</b>
5.1	Test not performed when analysis indicated condition being tested was adequately evaluated by other tests or methods .....	RM not provided: All the applicable tests were conducted.	<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	RISK MANAGEMENT FILE identifies combinations of simultaneous independent faults that could result in a HAZARDOUS SITUATION. (ISO 14971 Cl. 5.2-5.5)		<b>N/A</b>
5.3	Tests conducted within the environmental conditions specified in technical description		<b>P</b>
	Temperature (°C), Relative Humidity (%) .....	0-40°C, 5%-95%RH	—
	Atmospheric Pressure (kPa) .....	540-1060hPa	—
5.5	a) Supply voltage during tests was the least favourable of the voltages specified in 4.10.2 or voltages marked on ME EQUIPMENT (V).....	90/264V considered	<b>P</b>
	b) ME EQUIPMENT marked with a RATED frequency range tested at the least favourable frequency within the range (Hz) .....	50-60Hz considered	<b>P</b>
	c) ME EQUIPMENT with more than one RATED voltage, both a.c./ d.c. or both external power and INTERNAL ELECTRICAL POWER SOURCE tested in conditions (see 5.4) related to the least favourable voltage, nature of supply, and type of current .....	90/264V, 60Hz considered	<b>P</b>
	d) ME EQUIPMENT intended for only d.c. supply connection tested with d.c. and influence of polarity considered .....	Not for d.c. supply connection.	<b>N/A</b>
	e) ME EQUIPMENT tested with alternative ACCESSORIES and components specified in ACCOMPANYING DOCUMENTS to result in the least favourable conditions .....	No alternative accessory	<b>N/A</b>
	f) ME EQUIPMENT connected to a separate power supply as specified in instructions for use	No separate power supply used	<b>N/A</b>
5.7	ME EQUIPMENT or parts thereof affected by climatic conditions were set up completely, or partially, with covers detached and subjected to a humidity preconditioning prior to tests of Clauses 8.7.4 and 8.8.3.....	No additional testing should be considered.	<b>N/A</b>
	ME EQUIPMENT heated to a temperature between T and T + 4°C for at least 4 h and placed in a humidity chamber and ambient within 2 °C of T in range of +20°C to +32°C for indicated time	Pre-condition performed: 26°C, 93%RH for 168 h according to client's request.	—
<b>5.9</b>	<b>Determination of APPLIED PARTS and ACCESSIBLE PARTS</b>		<b>P</b>
5.9.1	APPLIED PARTS identified by inspection and reference to ACCOMPANYING DOCUMENTS.....	See clause 4.6 Remark	<b>P</b>
<b>5.9.2</b>	<b>ACCESSIBLE PARTS</b>		<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
5.9.2.1	Accessibility determined using standard test finger of Fig. 6	See Appended Table 5.9.2	<b>P</b>
5.9.2.2	Test hook of Fig. 7 inserted in all openings of ME EQUIPMENT and pulled with a force of 20 N for 10 s	No enter opening.	<b>N/A</b>
5.9.2.3	Conductive parts of actuating mechanisms of electrical controls accessible after removal of handles, knobs, levers and the like regarded as ACCESSIBLE PARTS..... :	No such part.	<b>N/A</b>
	Conductive parts of actuating mechanisms not considered ACCESSIBLE PARTS when removal of handles, knobs, required use of a TOOL ..... :	No such part.	<b>N/A</b>
<b>6</b>	<b>CLASSIFICATION OF ME EQUIPMENT AND ME SYSTEMS</b>		<b>P</b>
6.2	CLASS I ME EQUIPMENT, externally powered	Class I or Class II construction for power adapter model. Final evaluation in the end product.	<b>P</b>
	CLASS II ME EQUIPMENT, externally powered	Class I or Class II construction for power adapter model. Final evaluation in the end product.	<b>P</b>
	INTERNALLY POWERED ME EQUIPMENT	Not internally powered	<b>N/A</b>
	EQUIPMENT with means of connection to a SUPPLY MAINS complied with CLASS I or CLASS II ME EQUIPMENT requirements when so connected, and when not connected to SUPPLY MAINS with INTERNALLY POWERED ME EQUIPMENT requirements		<b>N/A</b>
	TYPE B APPLIED PART	No applied part.	<b>N/A</b>
	TYPE BF APPLIED PART	No applied part.	<b>N/A</b>
	TYPE CF APPLIED PART	No applied part.	<b>N/A</b>
	DEFIBRILLATION-PROOF APPLIED PARTS	No applied part.	<b>N/A</b>
6.3	ENCLOSURES classified according to degree of protection against ingress of water and particulate matter as per IEC 60529..... :	IP20 for adapter model.Final determination in the end product for open frame model.	<b>N/A</b>
6.4	ME EQUIPMENT or its parts intended to be sterilized classified according to method(s) of sterilization in instructions for use..... :	No sterilization required	<b>N/A</b>
6.5	ME EQUIPMENT and ME SYSTEMS intended for use in an OXYGEN RICH ENVIRONMENT classified for such use and complied with 11.2.2	Power supply not investigated for oxygen rich environment	<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
6.6	CONTINUOUS or Non-CONTINUOUS OPERATION .....	Continuous operation	<b>P</b>
<b>7</b>	<b>ME EQUIPMENT IDENTIFICATION, MARKING, AND DOCUMENTS</b>		<b>P</b>
7.1.2	Legibility of Markings Test for Markings specified in Clause 7.2-7.6.....	See Appended Table 7.1.2	<b>P</b>
7.1.3	Required markings can be removed only with a TOOL or by appreciable force, are durable and remain CLEARLY LEGIBLE during EXPECTED SERVICE LIFE of ME EQUIPMENT in NORMAL USE	See appended Tables 7.1.3 and 8.10	<b>P</b>
<b>7.2</b>	<b>Marking on the outside of ME EQUIPMENT or ME EQUIPMENT parts</b>		<b>P</b>
7.2.1	At least markings in 7.2.2, 7.2.5, 7.2.6, 7.2.10, and 7.2.13 were applied when size of EQUIPMENT, its part, an ACCESSORY, or ENCLOSURE did not permit application of all required markings .....	See attached copy of Marking Plate	<b>P</b>
	Remaining markings fully recorded in ACCOMPANYING DOCUMENTS .....	All required marking provided on name plate.	<b>N/A</b>
	Markings applied to individual packaging when impractical to apply to ME EQUIPMENT	No such condition	<b>N/A</b>
	Single use item marked.....	No part intended for a single use.	<b>N/A</b>
7.2.2	ME EQUIPMENT marked with:		<b>P</b>
	– the name or trademark and contact information of the MANUFACTURER	See attached copy of Marking Plate	<b>P</b>
	– a MODEL OR TYPE REFERENCE		<b>P</b>
	– a serial number or lot or batch identifier; and		<b>P</b>
	– the date of manufacture or use by date		<b>P</b>
	Detachable components of the ME EQUIPMENT not marked; misidentification does not present an unacceptable risk, or		<b>N/A</b>
	RISK MANAGEMENT FILE includes an assessment of the RISKS relating to misidentification of all detachable parts..... (ISO 14971 Cl. 5.2-5.5, 6, 7.3)		<b>N/A</b>
	Detachable components of the ME EQUIPMENT are marked with the name or trademark of the MANUFACTURER, and		<b>P</b>
	– a MODEL OR TYPE REFERENCE		<b>P</b>
	Software forming part of a PEMS identified with a unique identifier.....	No software	<b>N/A</b>
7.2.3	Symbol 11 on Table D.1 used, optionally, advice to OPERATOR to consult ACCOMPANYING DOCUMENTS	See the marking label.	<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	SAFETY SIGN 10 on Table D.2) used, advising OPERATOR that ACCOMPANYING DOCUMENTS must be consulted		N/A
7.2.4	ACCESSORIES marked with name or trademark and contact information of their MANUFACTURER, and .....	No such accessories.	N/A
	- with a MODEL or TYPE REFERENCE		N/A
	– a serial number or lot or batch identifier		N/A
	– the date of manufacture or use by date		N/A
	Markings applied to individual packaging when not practical to apply to ACCESSORIES		N/A
7.2.5	ME EQUIPMENT and ME SYSTEM intended to receive power from other equipment, provided with one of the following	Not receive power from other equipment.	N/A
	- the name or trademark of the manufacturer of the other electrical equipment and type reference marked adjacent to the relevant connection point; or		N/A
	– Table D.2, SAFETY SIGN No. 10 adjacent to the relevant connection point and listing of the required details in the instructions for use; or		N/A
	– Special connector style used that is not commonly available on the market and listing of the required details in the instructions for use.		N/A
<b>7.2.6</b>	<b>Connection to the Supply Mains</b>		<b>P</b>
	Marking appearing on the outside of part containing SUPPLY MAINS connection and, adjacent to connection point		<b>P</b>
	For PERMANENTLY INSTALLED ME EQUIPMENT, NOMINAL supply voltage or range marked inside or outside of ME EQUIPMENT	Not for permanently installed.	N/A
	– RATED supply voltage(s) or RATED voltage range(s) with a hyphen (-) between minimum and maximum voltages (V, V-V).....:	100-240V	<b>P</b>
	Multiple RATED supply voltages or multiple RATED supply voltage ranges are separated by (V/V).....:	Not so marked.	N/A
	– Nature of supply and type of current.....:	Single phase, AC.	<b>P</b>
	Symbols 1-5, Table D.1 (used for same parameters).....:	‘~’ is used.	<b>P</b>
	– RATED supply frequency or RATED frequency range in hertz.....:	50-60Hz	<b>P</b>
	– Symbol 9 of Table D.1 used for CLASS II ME EQUIPMENT.....:	Symbol 9 is used for Class II adapter model.	<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
7.2.7	RATED input in amps or volt-amps, (A, VA).....:	1.5A, GT*96600-*56*** (2.0A)	<b>P</b>
	RATED input in amps or volt-amps, or in watts when power factor exceeds 0.9 (A, VA, W).....:		<b>N/A</b>
	RATED input for one or more RATED voltage ranges provided for upper and lower limits of the range or ranges when the range(s) is/are greater than $\pm 10\%$ of the mean value of specified range (A, VA, W).....:	100-240V	<b>P</b>
	Input at mean value of range marked when range limits do not differ by more than 10 % from mean value (A, VA, W).....:	No such range provided.	<b>N/A</b>
	Marking includes long-time and most relevant momentary volt-ampere ratings when provided, each plainly identified and indicated in ACCOMPANYING DOCUMENTS (VA).....:	No such range provided.	<b>N/A</b>
	Marked input of ME EQUIPMENT provided with means for connection of supply conductors of other electrical equipment includes RATED and marked output of such means (A, VA, W).....:	No such range provided.	<b>N/A</b>
<b>7.2.8</b>	<b>Output connectors</b>		<b>P</b>
7.2.8.2	Output connectors are marked, except for MULTIPLE SOCKET-OUTLETS or connectors intended for specified ACCESSORIES or equipment		<b>P</b>
	Rated Voltage (V), Rated Current (A).....:	See model similarity	<b>—</b>
	Rated Power (W), Output Frequency (Hz).....:	See model similarity	<b>—</b>
7.2.9	ME EQUIPMENT or its parts marked with the IP environmental Code per IEC 60529 according to classification in 6.3 (Table D.3, Code 2), marking optional for ME EQUIPMENT or parts rated IPX0.....:	IP20	<b>N/A</b>
7.2.10	Degrees of protection against electric shock as classified in 6.2 for all APPLIED PARTS marked with relevant symbols .....	No Applied Parts in power supply	<b>N/A</b>
	TYPE B APPLIED PARTS with symbol 19 of Table D.1.....:		<b>N/A</b>
	TYPE BF APPLIED PARTS with symbol 20 of Table D.1:		<b>N/A</b>
	TYPE CF APPLIED PARTS with symbol 21 of Table D.1.....:		<b>N/A</b>
	DEFIBRILLATION-PROOF APPLIED PARTS marked with symbols 25-27 of Table D.1.....:		<b>N/A</b>
	Proper symbol marked adjacent to or on connector for APPLIED PART.....:		<b>N/A</b>



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Clause	Requirement + Test	Result - Remark	Verdict
	SAFETY SIGN 2 of Table D.2 placed near relevant outlet.....:		N/A
	An explanation indicating protection of ME EQUIPMENT against effects of discharge of a cardiac defibrillator depends on use of proper cables included in instructions for use.....:		N/A
7.2.11	ME EQUIPMENT suitable for CONTINUOUS OPERATION		P
	DUTY CYCLE for ME EQUIPMENT intended for non-CONTINUOUS OPERATION appropriately marked to provide maximum "on" and "off" time.....:	Continuous operation.	N/A
7.2.12	Type and full rating of a fuse marked adjacent to ACCESSIBLE fuse-holder	No accessible fuse-holder	N/A
	Fuse type.....:		—
	Voltage (V) and Current (A) rating.....:		—
	Operating speed (s) and Breaking capacity.....:		—
7.2.13	Physiological effects – SAFETY SIGN and warning statements .....	EUT is component power supply only, no physiological effect	N/A
	Nature of HAZARD and precautions for avoiding or minimizing the associated RISK described in instructions for use.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.2)	Component, to be determined as part of end product.	N/A
7.2.14	HIGH VOLTAGE TERMINAL DEVICES on the outside of ME EQUIPMENT accessible without the use of a TOOL marked with symbol 24 of Table D.1	No such high voltage terminal device.	N/A
7.2.15	Requirements for cooling provisions marked.....:	Component, to be determined as part of end product.	N/A
7.2.17	Packaging marked with special handling instructions for transport and/or storage.....:	No special protective packaging measures have to be taken.	N/A
	Permissible environmental conditions marked on outside of packaging.....:		N/A
	Packaging marked with a suitable SAFETY SIGN indicating premature unpacking of ME EQUIPMENT could result in an unacceptable RISK.....:		N/A
	RISK MANAGEMENT FILE includes the assessment to determine premature unpacking of ME EQUIPMENT or its parts could result in an unacceptable RISK.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.2)		N/A
	Packaging of sterile ME EQUIPMENT or ACCESSORIES marked sterile and indicates the methods of sterilization		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
7.2.18	RATED maximum supply pressure from an external source marked on ME EQUIPMENT adjacent to each input connector, and .....	No external pressure source.	N/A
	- the RATED flow rate also marked		N/A
7.2.19	Symbol 7 of Table D.1 marked on FUNCTIONAL EARTH TERMINAL.....	No FE terminal.	N/A
7.2.20	Removable protective means marked to indicate the necessity for replacement when the function is no longer needed.....	Component, to be determined as part of end product.	N/A
7.2.21	MOBILE ME EQUIPMENT marked with its mass including its SAFE WORKING LOAD in kilograms .....	Not mobile me equipment	N/A
<b>7.3</b>	<b>Marking on the inside of ME EQUIPMENT or ME EQUIPMENT parts</b>		<b>N/A</b>
7.3.1	Maximum power loading of heating elements or lamp-holders designed for use with heating lamps marked near or in the heater (W).....	No heating element, no lamp holder.	N/A
	A marking referring to ACCOMPANYING DOCUMENTS provided for heating elements or lamp-holders designed for heating lamps that can be changed only by SERVICE PERSONNEL using a TOOL		N/A
7.3.2	Symbol 24 of Table D.1, or SAFETY SIGN No.3 of Table D.2 used to mark presence of HIGH VOLTAGE parts.....	No such HV part.	N/A
7.3.3	Type of battery and mode of insertion marked..		N/A
	An identifying marking provided referring to instructions in ACCOMPANYING DOCUMENTS for batteries intended to be changed only by SERVICE PERSONNEL using a TOOL.....	No battery.	N/A
	A warning provided indicating replacement of lithium batteries or fuel cells when incorrect replacement would result in an unacceptable RISK		N/A
	RISK MANAGEMENT FILE includes an assessment to determine the replacement of lithium batteries or fuel cells leads to an HAZARDOUS SITUATION if replaced incorrectly..... (ISO 14971 Cl. 5.2-5.5, 6, 7.2)		N/A
	ACCOMPANYING DOCUMENTS contain a warning indicating the replacement of lithium batteries or fuel cells by inadequately trained personnel could result in a HAZARDOUS SITUATION.....		N/A
7.3.4	Fuses, replaceable THERMAL CUT-OUTS and OVER-CURRENT RELEASES, accessible by use of a TOOL Identified .....	Specification adjacent to component	P
	Voltage (V) and Current (A) rating.....	See the table 8.10	—
	Operating speed(s), size & breaking capacity.....	See the table 8.10	—

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Clause	Requirement + Test	Result - Remark	Verdict
7.3.5	PROTECTIVE EARTH TERMINAL marked with symbol 6 of Table D.1		N/A
	Markings on or adjacent to PROTECTIVE EARTH TERMINALS not applied to parts requiring removal to make the connection, and remained visible after connection made		N/A
7.3.6	Symbol 7 of Table D.1 marked on FUNCTIONAL EARTH TERMINALS	No FE terminal.	N/A
7.3.7	Terminals for supply conductors marked adjacent to terminals.....:	No hazard if connections are interchanged.	P
	Terminal markings included in ACCOMPANYING DOCUMENTS when ME EQUIPMENT too small to accommodate markings	Marked on EUT	N/A
	Terminals exclusively for neutral supply conductor in PERMANENTLY INSTALLED ME EQUIPMENT marked with Code 1 of Table D.3	Not permanently installed	N/A
	Marking for connection to a 3-phase supply, complies with IEC 60445	Not 3-phase	N/A
	Markings on or adjacent to electrical connection points not applied to parts requiring removal to make connection, and remained visible after connection made		P
7.3.8	"For supply connections, use wiring materials suitable for at least X °C" or equivalent, marked at the point of supply connections	No such high temperature	N/A
	Statement not applied to parts requiring removal to make the connection, and CLEARLY LEGIBLE after connections made		N/A
<b>7.4</b>	<b>Marking of controls and instruments</b>		<b>N/A</b>
7.4.1	The "on" & "off" positions of switch to control power to ME EQUIPMENT, including mains switch, marked with symbols 12 and 13 of Table D.1 or	No power switch	N/A
	– indicated by an adjacent indicator light, or		N/A
	– indicated by other unambiguous means		N/A
	The "on" & "off" positions of switch to control power to parts of ME EQUIPMENT, marked with symbols 12 and 13 of Table D.1 or		N/A
	- marked with symbols 16 and 17 of Table D.1 or		N/A
	– indicated by an adjacent indicator light, or		N/A
	– indicated by other unambiguous means		N/A
	Switches that brings ME EQUIPMENT into "stand-by" may be indicated by symbol 29 of Table D.1		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	The "on/off" positions of push button switch with bi-stable positions marked with symbol 14 of Table D.1, and		N/A
	– status indicated by adjacent indicator light		N/A
	– status indicated by other unambiguous means		N/A
	The "on/off" positions of push button switch with momentary on position marked with symbol 15 of Table D.1 or		N/A
	– status indicated by adjacent indicator light		N/A
	– status indicated by other unambiguous means		N/A
7.4.2	Different positions of control devices/switches indicated by figures, letters, or other visual means	No such device.	N/A
	RISK MANAGEMENT FILE identifies controls where a change in setting during NORMAL USE results in an unacceptable RISK.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1, 7.2)		N/A
	Controls provided with an associated indicating device when change of setting of a control could result in an unacceptable RISK to PATIENT in NORMAL USE.....:		N/A
	– or an indication of direction in which magnitude of the function changes		N/A
7.4.3	Numeric indications of parameters on ME EQUIPMENT expressed in SI units according to ISO 80000-1 except the base quantities listed in Table 1 expressed in the indicated units	No numeric indications of parameters.	N/A
	ISO 80000-1 applied for application of SI units, their multiples, and certain other units		N/A
	All Markings in Sub-clause 7.4 complied with tests and criteria of 7.1.2 and 7.1.3.....:		N/A
<b>7.5</b>	<b>SAFETY SIGNS</b>		N/A
	SAFETY SIGN with established meaning used	No safety sign used.	N/A
	RISK MANAGEMENT PROCESS identifies markings used to convey a warning, prohibition or mandatory action that mitigate a RISK not obvious to the OPERATOR.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.2)		N/A
	Affirmative statement together with SAFETY SIGN placed in instructions for use if insufficient space on ME EQUIPMENT		N/A
	Specified colours in ISO 3864-1 used for SAFETY SIGNS.....:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Safety notices include appropriate precautions or instructions on how to reduce RISK(S)		N/A
	SAFETY SIGNS including any supplementary text or symbols described in instructions for use		N/A
	- and in a language acceptable to the intended OPERATOR		N/A
<b>7.6</b>	<b>Symbols</b>		<b>P</b>
7.6.1	Meanings of symbols used for marking described in instructions for use.....:	Accompanying documents have been checked.	<b>P</b>
7.6.3	Symbols used for controls and performance conform to the IEC or ISO publication where symbols are defined, as applicable	No such symbol is used.	<b>N/A</b>
<b>7.7</b>	<b>Colours of the insulation of conductors</b>		<b>P</b>
7.7.1	PROTECTIVE EARTH CONDUCTOR identified by green and yellow insulation	Class I model provides PE conductor	<b>P</b>
7.7.2	Insulation on conductors inside ME EQUIPMENT forming PROTECTIVE EARTH CONNECTIONS identified by green and yellow at least at terminations	Class I model provides PE conductor	<b>P</b>
7.7.3	Green and yellow insulation identify only following conductors:		<b>P</b>
	– PROTECTIVE EARTH CONDUCTORS		<b>N/A</b>
	– conductors specified in 7.7.2		<b>P</b>
	– POTENTIAL EQUALIZATION CONDUCTORS		<b>N/A</b>
	– FUNCTIONAL EARTH CONDUCTORS		<b>N/A</b>
7.7.4	Neutral conductors of POWER SUPPLY CORDS are “light blue”	No power supply cord.	<b>N/A</b>
7.7.5	Colours of conductors in POWER SUPPLY CORDS in accordance with IEC 60227-1 or IEC 60245-1	No power supply cord.	<b>N/A</b>
<b>7.8</b>	<b>Indicator lights and controls</b>		<b>P</b>
7.8.1	Red indicator lights, not flashing used only for Warning		<b>N/A</b>
	Yellow indicator lights, not flashing used only for Caution		<b>N/A</b>
	Green indicator lights used only for Ready for use		<b>P</b>
	Red flashing used only for HIGH PRIORITY ALARM CONDITION, interruption of current workflow needed		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	Yellow flashing used only MEDIUM PRIORITY ALARM CONDITION, re-planning of workflow needed		N/A
	Yellow or Cyan, not flashing used for LOW PRIORITY ALARM CONDITION, planning of future workflow needed.		N/A
	Other colours: Meaning other than red, yellow, cyan or green (colour, meaning).....:		N/A
7.8.2	Red used only for emergency control	No such indicator light.	N/A
<b>7.9</b>	<b>ACCOMPANYING DOCUMENTS</b>		<b>P</b>
7.9.1	ME EQUIPMENT accompanied by documents containing instructions for use, and a technical description		<b>P</b>
	ACCOMPANYING DOCUMENTS identify ME EQUIPMENT by the following, as applicable:		<b>P</b>
	– Name or trade-name of MANUFACTURER and contact information for the RESPONSIBLE ORGANIZATION can be referred to.....:	GlobTek, Inc.	<b>P</b>
	– MODEL or TYPE REFERENCE.....:		<b>P</b>
	When ACCOMPANYING DOCUMENTS provided electronically, USABILITY ENGINEERING PROCESS includes instructions as to what is required in hard copy or as markings on ME EQUIPMENT		N/A
	ACCOMPANYING DOCUMENTS specify special skills, training, and knowledge required of OPERATOR or RESPONSIBLE ORGANIZATION and environmental restrictions on locations of use		N/A
	ACCOMPANYING DOCUMENTS written at a level consistent with education, training, and other needs of individuals for whom they are intended		N/A
7.9.2	Instructions for use include the required information		<b>P</b>
7.9.2.1	– use of ME EQUIPMENT as intended by the MANUFACTURER:	Power adapter.	<b>P</b>
	– frequently used functions,	Power supply only.	<b>P</b>
	– known contraindication(s) to use of ME EQUIPMENT	No contraindication.	<b>P</b>
	- parts of the ME EQUIPMENT that are not serviced or maintained while in use with the patient		N/A
	– name or trademark and address of the MANUFACTURER	GlobTek, Inc.	<b>P</b>
	– MODEL OR TYPE REFERENCE	GT*91099-***-** GT*96600-***-** GT*96600-*56***	<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	Instruction for use included the following when the PATIENT is an intended OPERATOR:		N/A
	– the PATIENT is an intended OPERATOR		N/A
	– warning against servicing and maintenance while the ME EQUIPMENT is in use		N/A
	- functions the PATIENT can safely use and, where applicable, which functions the PATIENT cannot safely use; and		N/A
	–maintenance the PATIENT can perform		N/A
	Classifications as in Clause 6, all markings per Clause 7.2, and explanation of SAFETY SIGNS and symbols marked on ME EQUIPMENT		P
	Instructions for use are in a language acceptable to the intended operator		P
7.9.2.2	Instructions for use include all warning and safety notices		P
	Warning statement for CLASS I ME EQUIPMENT included	Checked on end product for open frame model	N/A
	Warnings regarding significant RISKS of reciprocal interference posed by ME EQUIPMENT during specific investigations or treatments		P
	Information on potential electromagnetic or other interference and advice on how to avoid or minimize such interference		P
	Warning statement for ME EQUIPMENT supplied with an integral MULTIPLE SOCKET-OUTLET provided	No multiple socket-outlet.	N/A
	The RESPONSIBLE ORGANIZATION is referred to this standard for the requirements applicable to ME SYSTEMS		N/A
7.9.2.3	Statement on ME EQUIPMENT for connection to a separate power supply provided in instructions	No such connection.	N/A
7.9.2.4	Warning statement for mains- operated ME EQUIPMENT with additional power source not automatically maintained in a fully usable condition indicating the necessity for periodic checking or replacement of power source	No such additional power source.	N/A
	RISK MANAGEMENT FILE assesses the RISK resulting from leakage of batteries.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.2)		N/A
	Where the RISK is unacceptable, the IFU includes a warning to remove the battery if the ME EQUIPMENT is not likely to be used for some time.	No primary batteries.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Specifications of replaceable INTERNAL ELECTRICAL POWER SOURCE when provided.....:	No internal electrical power source.	<b>N/A</b>
	Warning indicating ME EQUIPMENT must be connected to an appropriate power source when loss of power source would result in an unacceptable RISK.....:	Further evaluation is needed on end product level.	<b>N/A</b>
7.9.2.5	Instructions for use include a description of ME EQUIPMENT, its functions, significant physical and performance characteristics together with the expected positions of OPERATOR, PATIENT, or other persons near ME EQUIPMENT in NORMAL USE	See "POWER SUPPLY INFORMATION" in IFU.	<b>P</b>
	Information provided on materials and ingredients PATIENT or OPERATOR is exposed to		<b>N/A</b>
	Restrictions specified on other equipment or NETWORK/DATA COUPLINGS, other than those forming part of an ME SYSTEM, to which a SIGNAL INPUT/OUTPUT PART may be connected	No SIP/SOP.	<b>N/A</b>
	APPLIED PARTS specified	No applied parts	<b>N/A</b>
7.9.2.6	Information provided indicating where the installation instructions may be found or information on qualified personnel who can perform the installation	No need.	<b>N/A</b>
7.9.2.7	Instructions provided indicating not to position ME EQUIPMENT to make it difficult to operate the disconnection device	Further evaluation is needed on end product level.	<b>N/A</b>
7.9.2.8	Necessary information provided for OPERATOR to bring ME EQUIPMENT into operation	No need.	<b>N/A</b>
7.9.2.9	Information provided to operate ME EQUIPMENT	No detachable parts or ACCESSORIES.	<b>N/A</b>
	Meanings of figures, symbols, warning statements, abbreviations and indicator lights described in instructions for use		<b>N/A</b>
7.9.2.10	A list of all system messages, error messages, and fault messages provided with an explanation of messages including important causes and possible action(s) to be taken to resolve the problem indicated by the message	No such message.	<b>N/A</b>
7.9.2.11	Information provided for the OPERATOR to safely terminate operation of ME EQUIPMENT	Appliance coupler or plug	<b>P</b>
7.9.2.12	Information provided on cleaning, disinfection, and sterilization methods, and applicable parameters that can be tolerated by ME EQUIPMENT parts or ACCESSORIES specified	No need for cleaning, disinfection and sterilization.	<b>N/A</b>



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Clause	Requirement + Test	Result - Remark	Verdict
	Components, ACCESSORIES or ME EQUIPMENT marked for single use, except when required by MANUFACTURER to be cleaned, disinfected, or sterilized prior to use		N/A
7.9.2.13	Instructions provided on preventive inspection, calibration, maintenance and its frequency	Further evaluation is needed on end product level.	N/A
	Information provided for safe performance of routine maintenance necessary to ensure continued safe use of ME EQUIPMENT		N/A
	Parts requiring preventive inspection and maintenance to be performed by SERVICE PERSONNEL identified including periods of application		N/A
	Instructions provided to ensure adequate maintenance of ME EQUIPMENT containing rechargeable batteries to be maintained by anyone other than SERVICE PERSONNEL		N/A
7.9.2.14	A list of ACCESSORIES, detachable parts, and materials for use with ME EQUIPMENT provided	No detachable parts or accessories.	N/A
	Other equipment providing power to ME SYSTEM sufficiently described		N/A
7.9.2.15	Disposal of waste products, residues, etc., and of ME EQUIPMENT and ACCESSORIES at the end of their EXPECTED SERVICE LIFE are identified in the instruction for us.....:	No disposal of waste.	N/A
7.9.2.16	Instructions for use include information specified in 7.9.3 or identify where it can be found (e.g. in a service manual)		P
7.9.2.17	Instruction for use for ME EQUIPMENT emitting radiation for medical purposes, indicate the nature, type, intensity and distribution of this radiation	No radiation.	N/A
7.9.2.18	The instructions for use for ME EQUIPMENT or ACCESSORIES supplied sterile indicate that they have been sterilized and the method of sterilization	No such need.	N/A
	The instructions for use indicate the necessary instructions in the event of damage to the sterile packaging, and where appropriate, details of the appropriate methods of re-sterilization		N/A
7.9.2.19	The instructions for use contain a unique version identifier.....:	On page head	P
<b>7.9.3</b>	<b>Technical description</b>		<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
7.9.3.1	All essential data provided for safe operation, transport, storage, and measures or conditions necessary for installing ME EQUIPMENT, and preparing it for use including	See "ELECTRICAL SPECIFICATIONS" in IFU.	<b>P</b>
	-information required in 7.2		<b>P</b>
	-permissible environmental conditions of use including conditions for transport and storage..... :		<b>P</b>
	-characteristics of the ME EQUIPMENT, including range(s), accuracy, and precision of the displayed values or an indication where they can be found		<b>P</b>
	-special installation requirements such as the maximum permissible apparent impedance of SUPPLY MAINS		<b>N/A</b>
	-permissible range of values of inlet pressure and flow, and the chemical composition of cooling liquid		<b>N/A</b>
	-description of the means for checking the oil level in partially sealed oil filled ME EQUIPMENT or its parts		<b>N/A</b>
	-warning statement that addresses the HAZARDS that can result from unauthorized modification of the ME EQUIPMENT		<b>N/A</b>
	-information pertaining to ESSENTIAL PERFORMANCE and any necessary recurrent ESSENTIAL PERFORMANCE and BASIC SAFETY testing including details of the means, methods and recommended frequency		<b>N/A</b>
	<b>Technical description separable from instructions for use contains required information, as follows</b>		<b>P</b>
	<b>-information required by 7.2</b>		<b>P</b>
	–applicable classifications in Clause 6, warning and safety notices, and explanation of SAFETY SIGNS marked on ME EQUIPMENT		<b>P</b>
	– brief description of the ME EQUIPMENT, how the ME EQUIPMENT functions and its significant physical and performance characteristics; and		<b>P</b>
	a unique version identifier.....:	On page head	<b>N/A</b>
	MANUFACTURER'S optional requirements for minimum qualifications of SERVICE PERSONNEL documented in technical description	No such requirements.	<b>N/A</b>
<b>7.9.3.2</b>	<b>The technical description contains the following required information</b>		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	–type and full rating of fuses used in SUPPLY MAINS external to PERMANENTLY INSTALLED ME EQUIPMENT.....:	Not permanently installed me equipment	N/A
	– a statement for ME EQUIPMENT with a non-DETACHABLE POWER SUPPLY CORD if POWER SUPPLY CORD is replaceable by SERVICE PERSONNEL, and		N/A
	– instructions for correct replacement of interchangeable or detachable parts specified by MANUFACTURER as replaceable by SERVICE PERSONNEL, and		N/A
	RISK MANAGEMENT FILE includes an assessment to determine if replacement of components results in any unacceptable RISKS.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
	– warnings identifying nature of HAZARD when replacement of a component could result in an unacceptable RISK, and when replaceable by SERVICE PERSONNEL all information necessary to safely replace the component		N/A
7.9.3.3	Technical description indicates, MANUFACTURER will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to SERVICE PERSONNEL in parts repair	No such need.	N/A
7.9.3.4	Means used to comply with requirements of 8.11.1 clearly identified in technical description	Appliance coupler or plug	P
<b>8</b>	<b>PROTECTION AGAINST ELECTRICAL HAZARDS FROM ME EQUIPMENT</b>		<b>P</b>
8.1	Limits specified in Clause 8.4 not exceeded for ACCESSIBLE PARTS and APPLIED PARTS in NORMAL or SINGLE FAULT CONDITIONS		P
	RISK MANAGEMENT FILE identifies conductors and connectors where breaking free results in a HAZARDOUS SITUATION.....: (ISO 14971 Cl. 4.3)	GT-RM2013-010 Cl.6 EL3	P
<b>8.2</b>	<b>Requirements related to power sources</b>		<b>N/A</b>
<b>8.2.1</b>	<b>Connection to a separate power source</b>		<b>N/A</b>
	When ME EQUIPMENT specified for connection to a separate power source other than SUPPLY MAINS, separate power source considered as part of ME EQUIPMENT or combination considered as an ME SYSTEM	Connection to mains only	N/A
	Tests performed with ME EQUIPMENT connected to separate power supply when one specified		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	When a generic separate power supply specified, specification in ACCOMPANYING DOCUMENTS examined		N/A
<b>8.2.2</b>	<b>Connection to an external d.c. power source</b>		<b>N/A</b>
	No HAZARDOUS SITUATION as described in 13.1 developed when a connection with wrong polarity made for ME EQUIPMENT from an external d.c. source	Connection to AC mains only	N/A
	ME EQUIPMENT connected with correct polarity maintained BASIC SAFETY and ESSENTIAL PERFORMANCE		N/A
	Protective devices that can be reset by anyone without a TOOL returns to NORMAL CONDITION on reset		N/A
<b>8.3</b>	<b>Classification of APPLIED PARTS</b>		<b>N/A</b>
	a) APPLIED PART specified in ACCOMPANYING DOCUMENTS as suitable for DIRECT CARDIAC APPLICATION is TYPE CF	No applied parts	N/A
	b) An APPLIED PART provided with a PATIENT CONNECTION intended to deliver electrical energy or an electrophysiological signal to or from PATIENT is TYPE BF or CF APPLIED PART		N/A
	c) An APPLIED PART not covered by a) or b) is a TYPE B, BF, or CF		N/A
<b>8.4</b>	<b>Limitation of voltage, current or energy</b>		<b>P</b>
<b>8.4.2</b>	<b>ACCESSIBLE PARTS and APPLIED PARTS</b>		<b>P</b>
	a) Currents from, to, or between PATIENT CONNECTIONS did not exceed limits for PATIENT LEAKAGE CURRENT & PATIENT AUXILIARY CURRENT.....:	No patient connections.	N/A
	b) LEAKAGE CURRENTS from, to, or between ACCESSIBLE PARTS did not exceed limits for TOUCH CURRENT.....:	See appended Table 8.7	P
	c) Limits specified in b) not applied to parts when probability of a connection to a PATIENT, directly or through body of OPERATOR, is negligible in NORMAL USE, and the OPERATOR is appropriately instructed	The likelihood of the current flowing through body of operator to be determined in end-product evaluation	N/A
	Voltage to earth or to other ACCESSIBLE PARTS did not exceed 42.4 V peak a.c. or 60 V d.c. for above parts in NORMAL or single fault condition (V a.c. or d.c.).....:	See appended Table 8.4.2	P
	Energy did not exceed 240 VA for longer than 60 s or stored energy available did not exceed 20 J at a potential of 2 V or more (VA or J).....:	See appended Table 8.4.2	P

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Clause	Requirement + Test	Result - Remark	Verdict
	Limits in b) does not apply to SIP/SOP connectors and separate power supply connectors if the voltage measured is less than or equal to 60 V d.c. or 42,4 V peak a.c		<b>N/A</b>
	d) Voltage and energy limits specified in c) above also applied to the following:	No such part.	<b>N/A</b>
	– internal parts touchable by test pin in Fig 8 inserted through an opening in an ENCLOSURE; and	No internal part is touchable for adapter model. Open frame model shall be determined in end product evaluation	<b>N/A</b>
	– internal parts touchable by a metal test rod with a diameter of 4 mm and a length 100 mm, inserted through any opening on top of ENCLOSURE or through any opening provided for adjustment of pre-set controls by RESPONSIBLE ORGANIZATION in NORMAL USE using a TOOL		<b>N/A</b>
	Test pin or the test rod inserted through relevant openings with minimal force of no more than 1 N	No opening for adapter model. Open frame model shall be determined in end product evaluation	<b>N/A</b>
	Test rod inserted in every possible position through openings provided for adjustment of pre-set controls that can be adjusted in NORMAL USE, with a force of 10 N		<b>N/A</b>
	Test repeated with a TOOL specified in instructions for use		<b>N/A</b>
	Test rod freely and vertically suspended through openings on top of ENCLOSURE		<b>N/A</b>
	e) Devices used to de-energize parts when an ACCESS COVER opened without a TOOL gives access to parts at voltages above levels permitted by this Clause comply with 8.11.1 for mains isolating switches and remain effective in SINGLE FAULT CONDITION	No such part for adapter model. Open frame model shall be determined in end product evaluation	<b>N/A</b>
	A TOOL is required when it is possible to prevent the devices from operating		<b>N/A</b>
8.4.3	Worst case voltage between pins of plug and between either supply pin and ENCLOSURE did not exceed 60 V one sec after disconnecting the plug of ME EQUIPMENT or its parts (V).....:	GT*96600 series See appended Table 8.4.3 GT*91099-***_**, GT*96600- *56***No bleeder resistor, IC discharge	<b>P</b>
	When voltage exceeded 60 V, calculated or measured stored charge didn't exceed 45µC.....:	See appended Table 8.4.3	<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
8.4.4	Residual voltage of conductive parts of capacitive circuits, having become accessible after ME EQUIPMENT was de-energized after removal of ACCESS COVERS, didn't exceed 60V or calculated stored charge didn't exceed 45µC.....:	No such part.	N/A
	A device manually discharging capacitors used when automatic discharging was not possible and ACCESS COVERS could be removed only with aid of a TOOL		N/A
	Capacitor(s) and connected circuitry marked with symbol 24 of Table D.1, and manual discharging device specified in technical description.....:		N/A
<b>8.5</b>	<b>Separation of parts</b>		<b>P</b>
<b>8.5.1</b>	<b>MEANS OF PROTECTION (MOP)</b>		<b>P</b>
8.5.1.1	Two MEANS OF PROTECTION provided for ME EQUIPMENT to prevent APPLIED and other ACCESSIBLE PARTS from exceeding limits in 8.4		<b>P</b>
	A MEANS OF PROTECTION protecting APPLIED PARTS or parts identified by 4.6 as parts subject to the same requirements, considered as MEANS OF PATIENT PROTECTION.....:		<b>P</b>
	Varnishing, enamelling, oxidation, and similar protective finishes and coatings with sealing compounds re-plasticizing at temperatures expected during operation and sterilization disregarded as MEANS OF PROTECTION		<b>P</b>
	Components and wiring forming a MEANS OF PROTECTION comply with 8.10		<b>P</b>
8.5.1.2	MEANS OF PATIENT PROTECTION (MOPP)		<b>P</b>
	Solid insulation forming a MEANS OF PATIENT PROTECTION complied with dielectric strength test.....:	See appended Table 8.8.3	<b>P</b>
	CREEPAGE and CLEARANCES forming a MEANS OF PATIENT PROTECTION complied with Table 12		<b>P</b>
	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF PATIENT PROTECTION complied with Cl. 8.6		<b>P</b>
	Y1 or Y2 capacitor complying with standard IEC 60384-14 considered one MEANS OF PATIENT PROTECTION .....	See appended Tables 8.8.3 and 8.10	<b>P</b>
	Single Y1 capacitor used for two MEANS OF PATIENT PROTECTION when the working voltage is less than 42,4 V peak a.c. or 60 V d.c.....:	See appended Tables 8.8.3 and 8.10	<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	Two capacitors used in series, each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance		<b>P</b>
	Voltage Total Working (V) and C Nominal (μF).....:	250V, 2200pF 250V, 1500pF 250V, 1000pF	<b>—</b>
	Optocouplers complying with IEC 60747-5-5:2007, or a later edition. Considered equivalent to requirements in 8.8.2 and 8.9.3	See table 8.10	<b>—</b>
	Measurement of Air Clearance and Creepage distance on the outside	See insulation table	<b>—</b>
	Dielectric strength test across optocoupler	See table 8.8.3	<b>—</b>
8.5.1.3	MEANS OF OPERATOR PROTECTION (MOOP)	The separation between primary and secondary was evaluated by MOPP.	<b>P</b>
	Solid insulation forming a MEANS OF OPERATOR PROTECTION complied with:		<b>P</b>
	– dielectric strength test .....		<b>P</b>
	– requirements of IEC 60950-1:2005, IEC 60950-1:2005/A1:2009 and IEC 60950:2005/A2:2013 or requirements of IEC 62368-1:2018 for INSULATION CO-ORDINATION		<b>N/A</b>
	CREEPAGE and CLEARANCES forming a MEANS OF OPERATOR PROTECTION complied with:		<b>P</b>
	– limits of Tables 13 to 16 (inclusive); or		<b>P</b>
	– requirements of IEC 60950-1:2005, IEC 60950-1:2005/A1:2009 and IEC 60950:2005/A2:2013 or requirements of IEC 62368-1:2018 for INSULATION CO-ORDINATION		<b>N/A</b>
	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF OPERATOR PROTECTION complied with Cl. 8.6		<b>N/A</b>
	– or with requirements and tests of IEC 60950-1:2005, IEC 60950-1:2005/A1:2009 and IEC 60950:2005/A2:2013 or requirements of IEC 62368-1:2018 for protective earthing.....:		<b>N/A</b>
	A Y2 (IEC 60384-14) capacitor is considered one MEANS OF OPERATOR PROTECTION.....:		<b>N/A</b>
	A Y1 (IEC 60384-14 ) capacitor is considered two MEANS OF OPERATOR PROTECTION.....:		<b>N/A</b>
	Two capacitors used in series each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	Voltage <sub>Total Working</sub> (V) and C <sub>Nominal</sub> (μF).....:		—
	Optocouplers complying with IEC 60747-5-5:2007, or a later edition. Considered equivalent to requirements in 8.8.2 and 8.9.3		—
	Measurement of Air Clearance and Creepage distance on the outside		—
	Dielectric strength test across optocoupler		—
	Points and applied parts at which impedances of components, CREEPAGE, CLEARANCES, PROTECTIVE EARTH CONNECTIONS or insulation, prevent ACCESSIBLE PARTS from exceeding limits in 8.4 were examined whether a failure at any of these points is to be regarded as a NORMAL or SINGLE FAULT CONDITION		P
	A means of protection protecting applied parts, or parts identified by 4.6 as parts subject to the same requirements, considered means of patient protection .....	See the insulation diagram.	P
	A means of protection protecting other parts considered means of operator protection.....	See the insulation diagram.	P
<b>8.5.2</b>	<b>Separation of PATIENT CONNECTIONS</b>		<b>N/A</b>
8.5.2.1	PATIENT CONNECTIONS of F-TYPE APPLIED PART separated from all other parts by equivalent to one MEANS OF PATIENT PROTECTION for a WORKING VOLTAGE equal to the MAX. MAINS VOLTAGE.....:	No patient connections	<b>N/A</b>
	Separation requirement not applied between multiple functions of a single F-TYPE APPLIED PART		<b>N/A</b>
	PATIENT CONNECTIONS treated as one APPLIED PART in the absence of electrical separation between PATIENT CONNECTIONS of same or another function		<b>N/A</b>
	MANUFACTURER has defined if multiple functions are to be considered as all within one APPLIED PART or as multiple APPLIED PARTS.....:		<b>N/A</b>
	Classification as TYPE BF, CF, or DEFIBRILLATION-PROOF applied to one entire APPLIED PART		<b>N/A</b>
	LEAKAGE CURRENT tests conducted per 8.7.4.....:		<b>N/A</b>
	Dielectric strength test conducted per 8.8.3.....:		<b>N/A</b>
	CREEPAGE and CLEARANCES measured .....		<b>N/A</b>



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Clause	Requirement + Test	Result - Remark	Verdict
	A protective device connected between PATIENT CONNECTIONS of an F-TYPE APPLIED PART and ENCLOSURE to protect against excessive voltages did not operate below 500 V r.m.s		N/A
8.5.2.2	PATIENT CONNECTIONS of a TYPE B APPLIED PART not PROTECTIVELY EARTHED are separated by one MEANS OF PATIENT PROTECTION from metal ACCESSIBLE PARTS not PROTECTIVELY EARTHED....:		N/A
	– except when metal ACCESSIBLE PART is physically close to APPLIED PART and can be regarded as a part of APPLIED PART; and		N/A
	– RISK that metal ACCESSIBLE PART will make contact with a source of voltage or LEAKAGE CURRENT above permitted limits is acceptably low. In this case 8.7.4.7 d) does not apply		N/A
	LEAKAGE CURRENT tests conducted per 8.7.4....:		N/A
	Dielectric strength test conducted per 8.8.3 .....		N/A
	Relevant CREEPAGE and CLEARANCES measured		N/A
	RISK MANAGEMENT FILE includes an assessment of the RISK of metal ACCESSIBLE PARTS contacting a source of voltage or LEAKAGE CURRENT above the limits.....: (ISO 14971 Cl. 5.2-5.5, 6)		N/A
8.5.2.3	<b>A connector on a PATIENT lead or PATIENT cable located at the end of the lead or cable distal from PATIENT, with conductive part not separated from all PATIENT CONNECTIONS by one MEANS OF PATIENT PROTECTION for a WORKING VOLTAGE equal to MAXIMUM MAINS VOLTAGE</b>		N/A
	- cannot be connected to earth or hazardous voltage while the PATIENT CONNECTIONS are in contact with PATIENT.....:	No patient lead.	N/A
	– conductive part of connector not separated from all PATIENT CONNECTIONS did not come into contact with a flat conductive plate of not less than 100 mm diameter		N/A
	– CLEARANCE between connector pins and a flat surface is at least 0.5 mm		N/A
	– conductive part pluggable into a mains socket protected from contacting parts at MAINS VOLTAGE by insulation with a CREEPAGE DISTANCE of at least 1.0 mm, a 1500 V dielectric strength and complying with 8.8.4.1		N/A
	– required test finger did not make electrical contact with conductive part when applied against access openings with a force of 10 N,		N/A
	Test finger test (10 N).....:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Except when RISK MANAGEMENT PROCESS includes an assessment of RISKS resulting from contact with objects other than mains sockets or flat surfaces.....: (ISO 14971 Cl. 5.2-5.5, 6)		<b>N/A</b>
<b>8.5.4</b>	<b>WORKING VOLTAGE</b>		<b>P</b>
	– Input supply voltage to ME EQUIPMENT was RATED voltage or voltage within RATED range resulting in highest measured value (V).....:	240Vac	<b>P</b>
	– WORKING VOLTAGE for d.c. voltages with superimposed ripple was average value when peak-to-peak ripple less than 10% of average value or peak voltage when peak-to-peak ripple exceeding 10% of average value (V).....:	See Insulation Diagram and Insulation Table	<b>P</b>
	– WORKING VOLTAGE for each MEANS OF PROTECTION forming DOUBLE INSULATION was voltage DOUBLE INSULATION, as a whole, subjected to (V).....:	See Insulation Diagram and Insulation Table	<b>P</b>
	– Intentional or accidental earthing of PATIENT regarded as a NORMAL CONDITION for WORKING VOLTAGE involving a PATIENT CONNECTION not connected to earth	No patient connection.	<b>N/A</b>
	– WORKING VOLTAGE between PATIENT CONNECTIONS of an F-TYPE APPLIED PART and ENCLOSURE was highest voltage appearing across insulation in NORMAL USE including earthing of any part of APPLIED PART (V).....:	No applied part.	<b>N/A</b>
	– WORKING VOLTAGE for DEFIBRILLATION-PROOF APPLIED PARTS determined disregarding possible presence of defibrillation voltages	No defibrillation-proof applied parts.	<b>N/A</b>
	– WORKING VOLTAGE was equal to resonance voltage in case of motors provided with capacitors between the point where a winding and a capacitor are connected together and a terminal for external conductors (V).....:	No motor.	<b>N/A</b>
<b>8.5.5</b>	<b>DEFIBRILLATION-PROOF APPLIED PARTS</b>		<b>N/A</b>
<b>8.5.5.1</b>	Classification “DEFIBRILLATION-PROOF APPLIED PART” applied to one APPLIED PART in its entirety	No defibrillation-proof applied parts.	<b>N/A</b>
	Isolation of PATIENT CONNECTIONS of a DEFIBRILLATION-PROOF APPLIED PART from other parts of ME EQUIPMENT accomplished as follows:		<b>N/A</b>
	a) No hazardous electrical energies appear during a discharge of cardiac defibrillator .....		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	b) ME EQUIPMENT complied with relevant requirements of this standard, providing BASIC SAFETY and ESSENTIAL PERFORMANCE following exposure to defibrillation voltage, and recovery time stated in ACCOMPANYING DOCUMENTS.....:		N/A
8.5.5.2	Means provided to limit energy delivered to a 100 $\Omega$ load.....:		N/A
<b>8.6</b>	<b>Protective and functional earthing and potential equalization of ME EQUIPMENT</b>		<b>P</b>
8.6.1	Requirements of 8.6.2 to 8.6.8 applied		N/A
	Parts complying with IEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009 and IEC 60950-1:2005/AMD2:2013 or IEC 62368-1:2018 for protective earthing and serving as MEANS OF OPERATOR PROTECTION but not PATIENT PROTECTION exempted from requirements of 8.6.2 to 8.6.8		N/A
8.6.2	PROTECTIVE EARTH TERMINAL is suitable for connection to an external protective earthing system by a PROTECTIVE EARTH CONDUCTOR in a POWER SUPPLY CORD and a suitable plug or by a FIXED PROTECTIVE EARTH CONDUCTOR.....:	Certified appliance coupler for open frame model.	<b>P</b>
	Clamping means of PROTECTIVE EARTH TERMINAL of ME EQUIPMENT for FIXED supply conductors or POWER SUPPLY CORDS comply with 8.11.4.3, and cannot be loosened without TOOL	No such construction.	N/A
	Screws for internal PROTECTIVE EARTH CONNECTIONS completely covered or protected against accidental loosening from outside.....:	No such construction.	N/A
	Earth pin of APPLIANCE INLET forming supply connection to ME EQUIPMENT regarded as PROTECTIVE EARTH TERMINAL		<b>P</b>
	PROTECTIVE EARTH TERMINAL not used for mechanical connection between different parts of ME EQUIPMENT or securing components not related to protective or functional earthing	No such construction.	N/A
8.6.3	PROTECTIVE EARTH CONNECTION not used for a moving part,	No such construction.	N/A
	except when MANUFACTURER demonstrated in RISK MANAGEMENT FILE connection will remain reliable during EXPECTED SERVICE LIFE .....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
8.6.4	a) PROTECTIVE EARTH CONNECTIONS carried fault currents reliably and without excessive voltage drop.....:	See appended Table 8.6.4	<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	b) Allowable TOUCH CURRENT and PATIENT LEAKAGE CURRENT in SINGLE FAULT CONDITION were not exceeded, when impedance of PROTECTIVE EARTH CONNECTIONS exceeded values in 8.6.4 a) and Table 8.6.4, due to limited current capability of relevant circuits.....:		N/A
	DETACHABLE POWER SUPPLY CORD specified by manufacturer or delivered with product		N/A
<b>8.6.5</b>	<b>Surface coatings</b>		N/A
	Poorly conducting surface coatings on conductive elements removed at the point of contact		N/A
	Coating not removed when requirements for impedance and current-carrying capacity met		N/A
<b>8.6.6</b>	<b>Plugs and sockets</b>		P
	PROTECTIVE EARTH CONNECTION where connection between SUPPLY MAINS and ME EQUIPMENT or between separate parts of ME EQUIPMENT made via a plug and socket was made before and interrupted after supply connections	Certified appliance coupler for open frame model.	P
	- applied also where interchangeable parts are PROTECTIVELY EARTHED		N/A
<b>8.6.7</b>	<b>Terminal for connection of a POTENTIAL EQUALIZATION CONDUCTOR</b>		N/A
	– Terminal is accessible to OPERATOR with ME EQUIPMENT in any position of NORMAL USE		N/A
	–accidental disconnection avoided in NORMAL USE		N/A
	– Terminal allows conductor to be detached without a TOOL		N/A
	– Terminal not used for a PROTECTIVE EARTH CONNECTION		N/A
	– Terminal marked with symbol 8 of Table D.1		N/A
	– Instructions for use contain information on function and use of POTENTIAL EQUALIZATION CONDUCTOR together with a reference to requirements of this standard		N/A
	POWER SUPPLY CORD does not incorporate a POTENTIAL EQUALIZATION CONDUCTOR		N/A
<b>8.6.8</b>	FUNCTIONAL EARTH TERMINAL not used to provide a PROTECTIVE EARTH CONNECTION		N/A
<b>8.6.9</b>	<b>Class II ME EQUIPMENT</b>		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Third conductor of POWER SUPPLY CORD connected to protective earth contact of MAINS PLUG provided with CLASS II ME EQUIPMENT with isolated internal screens used as functional earth connection to the screen's FUNCTIONAL EARTH TERMINAL, coloured green and yellow		N/A
	ACCOMPANYING DOCUMENTS include a statement that the third conductor in the POWER SUPPLY CORD is only a functional earth.		N/A
	Two MEANS OF PROTECTION provided between insulation of internal screens and all internal wiring connected to them and ACCESSIBLE PARTS		N/A
<b>8.7</b>	<b>LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENTS</b>		<b>P</b>
8.7.1	a) Electrical isolation providing protection against electric shock limits currents to values in 8.7.3.....:	See appended Tables 8.7	<b>P</b>
	b) Specified values of EARTH LEAKAGE, TOUCH, PATIENT LEAKAGE, and PATIENT AUXILIARY CURRENTS applied in combination of conditions in appended Table 8.7.....:	See appended Tables 8.7	<b>P</b>
8.7.2	Allowable values specified in 8.7.3 applied under SINGLE FAULT CONDITIONS of 8.1 b), except		<b>P</b>
	– where insulation used in conjunction with a PROTECTIVE EARTH CONNECTION, insulation short circuited only under conditions in 8.6.4 b)	Final determination in end product for open frame model.	<b>N/A</b>
	– the only SINGLE FAULT CONDITION for EARTH LEAKAGE CURRENT was interruption of one supply conductor at a time	Final determination in end product for open frame model.	<b>N/A</b>
	– LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENT not measured in SINGLE FAULT CONDITION of short circuiting of one constituent part of DOUBLE INSULATION		<b>P</b>
	SINGLE FAULT CONDITIONS not applied at same time as special test conditions of MAXIMUM MAINS VOLTAGE on APPLIED PARTS and non-PROTECTIVELY EARTHED parts of ENCLOSURE		<b>P</b>
<b>8.7.3</b>	<b>Allowable Values</b>		<b>P</b>
	a) Allowable values in 8.7.3 b), c), and d) measured based on, and are relative to currents in Fig 12 a), or by a device measuring frequency contents of currents as in Fig 12 b).....:	See appended Table 8.7	<b>P</b>
	b) Allowable values of PATIENT LEAKAGE and AUXILIARY CURRENTS are according to Tables 3 & 4, and values of a.c. are relative to currents having a frequency not less than 0.1Hz.....:		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	c) TOUCH CURRENT did not exceed 100 $\mu$ A in NORMAL CONDITION and 500 $\mu$ A in SINGLE FAULT CONDITION ( $I_{TNC}$ , $I_{TSFC}$ ).....:	See appended Table 8.7 Final determination in end product for open frame model.	<b>P</b>
	d) EARTH LEAKAGE CURRENT did not exceed 5 mA in NORMAL CONDITION and 10 mA in SINGLE FAULT CONDITION ( $I_{ENC}$ , $I_{ESFC}$ ).....:	See appended Table 8.7 Final determination in end product for open frame model.	<b>P</b>
	Higher values of EARTH LEAKAGE CURRENT permitted for PERMANENTLY INSTALLED ME EQUIPMENT connected to a supply circuit supplying only this ME EQUIPMENT according to local regulations or IEC 60364-7-710.....:		<b>N/A</b>
	e) LEAKAGE CURRENTS, regardless of waveform and frequency, did not exceed 10 mA r.m.s. in NORMAL or in SINGLE FAULT CONDITION (measured with a non-frequency-weighted device).....:	See appended Table 8.7	<b>P</b>
	f) LEAKAGE CURRENTS flowing in a FUNCTIONAL EARTH CONDUCTOR in a non-PERMANENTLY INSTALLED ME EQUIPMENT are 5 mA in NORMAL CONDITION, 10 mA in SINGLE FAULT CONDITION.....:	Final determination in end product for open frame model	<b>N/A</b>
8.7.4	LEAKAGE and PATIENT AUXILIARY CURRENTS measurements.....:	See appended Table 8.7	<b>P</b>
8.8	Insulation		<b>P</b>
8.8.1	Insulation relied on as MEANS OF PROTECTION, including REINFORCED INSULATION subjected to testing		<b>P</b>
	Insulation exempted from test (complies with clause 4.8)		<b>P</b>
	Insulation forming MEANS OF OPERATOR PROTECTION and complying with IEC 60950-1 for INSULATION CO-ORDINATION not tested as in 8.8	No such part.	<b>N/A</b>
<b>8.8.2</b>	<b>Distance through solid insulation or use of thin sheet material</b>		<b>P</b>
	Solid insulation forming SUPPLEMENTARY or REINFORCED INSULATION for a PEAK WORKING VOLTAGE greater than 71 V provided with:		<b>P</b>
	a) 0.4 mm, min, distance through insulation, or	Enclosure is 2.0mm thick	<b>P</b>
	b) does not form part of an ENCLOSURE and not subject to handling or abrasion during NORMAL USE, and comprised of:		<b>P</b>
	– <i>at least two layers of material, each passed the appropriate dielectric strength test</i> .....:	See appended Table 8.8.3	<b>P</b>
	– or three layers of material, for which all combinations of two layers together passed the appropriate dielectric strength test.....:		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	Dielectric strength test for one or two layers was same as for one MEANS OF PROTECTION for SUPPLEMENTARY INSULATION		N/A
	Dielectric strength test for one or two layers was same as for two MEANS OF PROTECTION for REINFORCED INSULATION	See appended Table 8.8.3	P
	BASIC, SUPPLEMENTARY, and REINFORCED INSULATION required between windings of wound components separated by interleaved insulation complying with a) or b), or both, except when		N/A
	c) Wire with solid insulation, other than solvent based enamel, complying with a)		N/A
	d) Wire with multi-layer extruded or spirally wrapped insulation complying with b) and complying with Annex L		N/A
	e) Finished wire with spirally wrapped or multi-layer extruded insulation, complying with Annex L	Certified triple insulated wire is used.	P
	– BASIC INSULATION: minimum two wrapped layers or one extruded layer		N/A
	– SUPPLEMENTARY INSULATION: minimum two layers, wrapped or extruded		N/A
	– REINFORCED INSULATION: minimum three layers, wrapped or extruded		P
	In d) and e), for spirally wrapped insulation with CREEPAGE DISTANCES between layers less than in Table 12 or 16 (Pollution Degree 1) depending on type of insulation, path between layers sealed as a cemented joint in 8.9.3.3 and test voltages of TYPE TESTS in L.3 equal 1.6 times of normal values		N/A
	Protection against mechanical stress provided where two insulated wires or one bare and one insulated wire are in contact inside wound component, crossing at an angle between 45° and 90° and subject to winding tension.....:	Additional protection by insulating tape.	P
	Finished component complied with routine dielectric strength tests of 8.8.3.....:	See appended Table 8.8.3	N/A
	Tests of Annex L not repeated since material data sheets confirm compliance.....:		N/A
<b>8.8.3</b>	<b>Dielectric Strength</b>		<b>P</b>
	Solid insulating materials with a safety function withstood dielectric strength test voltages .....	See appended Table 8.8.3	P
<b>8.8.4</b>	<b>Insulation other than wire insulation</b>		<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
8.8.4.1	Resistance to heat retained by all insulation and insulating partition walls during EXPECTED SERVICE LIFE of ME EQUIPMENT		<b>P</b>
	ME EQUIPMENT and design documentation examined.....:	See the table 8.10	<b>P</b>
	RISK MANAGEMENT FILE examined in conjunction with resistance to moisture, dielectric strength, and mechanical strength tests.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	GT-RM2013-010 Cl 6 EL4	<b>P</b>
	Satisfactory evidence of compliance provided by manufacturer for resistance to heat.....:	No evidence is provided.	<b>N/A</b>
	Tests conducted in absence of satisfactory evidence for resistance to heat.....:	Ball pressure test performed	<b>P</b>
	a) ENCLOSURE and other external parts of insulating material, except insulation of flexible cords and parts of ceramic material, subjected to ball-pressure test using Fig 21 apparatus.....:	See appended Table 8.8.4.1	<b>P</b>
	b) Parts of insulating material supporting uninsulated parts of MAINS PART subjected to ball-pressure test in a), except at $125^{\circ}\text{C} \pm 2^{\circ}\text{C}$ or ambient indicated in technical description $\pm 2^{\circ}\text{C}$ plus temperature rise determined during test of 11.1 of relevant part, if higher ( $^{\circ}\text{C}$ ).....:	See appended Table 8.8.4.1	<b>P</b>
	Test not performed on parts of ceramic material, insulating parts of commutators, brush-caps, and similar, and on coil formers not used as REINFORCED INSULATION	No such material	<b>N/A</b>
<b>8.8.4.2</b>	<b>Resistance to environmental stress</b>		<b>P</b>
	Insulating characteristics and mechanical strength of all MEANS OF PROTECTION not likely to be impaired by environmental stresses including deposition of dirt resulting from wear of parts within EQUIPMENT, potentially reducing CREEPAGE and CLEARANCES below 8.9		<b>P</b>
	Ceramic and similar materials not tightly sintered, and beads alone not used as SUPPLEMENTARY or REINFORCED INSULATION	No such material	<b>N/A</b>
	Insulating material with embedded heating conductors considered as one MEANS OF PROTECTION but not two MEANS OF PROTECTION	No heating conductor	<b>N/A</b>
	Parts of natural latex rubber aged by suspending samples freely in an oxygen cylinder containing commercial oxygen to a pressure of $2.1\text{ MPa} \pm 70\text{ kPa}$ , with an effective capacity of at least 10 times volume of samples	No such material	<b>N/A</b>



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Clause	Requirement + Test	Result - Remark	Verdict
	There were no cracks visible to naked eyes after samples kept in cylinder at 70 °C ± 2 °C for 96h, and afterwards, left at room temperature for at least 16h	No such material	N/A
<b>8.9</b>	<b>CREEPAGE DISTANCES and AIR CLEARANCES</b>		<b>P</b>
8.9.1.1	CREEPAGE DISTANCES and AIR CLEARANCES are equal to or greater than values in Tables 12 to 16 (inclusive).....:	Refer to Insulation Diagram	<b>P</b>
8.9.1.15	CREEPAGE DISTANCES and AIR CLEARANCES for DEFIBRILLATION-PROOF APPLIED PARTS are 4 mm or more to meet 8.5.5.1	No defibrillation-proof applied parts.	N/A
8.9.1.16	Conductive coatings applied to non-metallic surfaces, do not result in flaking or peeling reducing any AIR CLEARANCE or CREEPAGE DISTANCE		N/A
8.9.2	a) Short circuiting of each single one of CREEPAGE DISTANCES and CLEARANCES in turn did not result in a HAZARDOUS SITUATION , min CREEPAGE and CLEARANCES not applied.....:	The spacing between parts of opposite polarity fulfils the values of Table 11.	N/A
<b>8.9.3</b>	<b>Spaces filled by insulating compound</b>		<b>P</b>
8.9.3.1	Only solid insulation requirements applied where distances between conductive parts filled with insulating compound	Certified optocoupler.	<b>P</b>
	Thermal cycling, humidity preconditioning, and dielectric strength tests	Certified optocoupler has conformed to these tests.	<b>P</b>
8.9.3.2	For insulating compound forming solid insulation between conductive parts, a single sample subjected to thermal cycling PROCEDURE of 8.9.3.4 followed by humidity preconditioning per 5.7 (for 48 hours), followed by dielectric strength test (cl. 8.8.3 at 1,6 x test voltage).....:	Certified optocoupler.	<b>P</b>
	Cracks or voids in insulating compound affecting homogeneity of material didn't occur	Certified optocoupler has conformed to these tests.	<b>P</b>
8.9.3.3	Where insulating compound forms a cemented joint with other insulating parts, three samples tested for reliability of joint	No such construction.	N/A
	A winding of solvent-based enamelled wire replaced for the test by a metal foil or by a few turns of bare wire placed close to cemented joint, and three samples tested as follows:		N/A
	– One sample subjected to thermal cycling PROCEDURE of 8.9.3.4, and immediately after the last period at highest temperature during thermal cycling followed by dielectric strength test of cl. 8.8.3 at 1.6 x the test voltage .....		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– The other two samples subjected to humidity preconditioning of 5.7, except for 48 hours only followed by a dielectric strength test of cl. 8.8.3 at 1.6 times the test voltage		<b>N/A</b>
8.9.4	Minimum spacing of grooves transvers to the CREEPAGE DISTANCES considered a MEANS OF OPERATOR PROTECTION adjusted based on pollution degree .....	Pollution degree: II	<b>P</b>
	Force was applied between bare conductors and outside metal enclosure when measuring CREEPAGE DISTANCES and AIR CLEARANCES	Refer to Insulation Diagram supplemental information for location and force used	<b>P</b>
<b>8.10</b>	<b>Components and wiring</b>		<b>P</b>
8.10.1	Components of ME EQUIPMENT likely to result in an unacceptable RISK by their movements mounted securely.....	Securely fixed by additional means	<b>P</b>
	RISK MANAGEMENT FILE includes an assessment of RISKS related to unwanted movement of components..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	GT-RM2013-010 Cl. 6.3 EL6	<b>P</b>
8.10.2	Conductors and connectors of ME EQUIPMENT adequately secured or insulated to prevent accidental detachment.....	GT-RM2013-010 Cl. 6.3 EL6	<b>P</b>
	Stranded conductors are not solder-coated when secured by clamping means to prevent HAZARDOUS SITUATIONS		<b>P</b>
8.10.3	Interconnecting flexible cords detachable without a TOOL used provided with means for connection to comply with requirements for metal ACCESSIBLE PARTS when a connection is loosened or broken .....	No such cord.	<b>N/A</b>
<b>8.10.4</b>	<b>Cord-connected HAND-HELD parts and cord-connected foot-operated control devices</b>		<b>N/A</b>
8.10.4.1	Control devices of ME EQUIPMENT and their connection cords contain only conductors and components operating at 42.4 V peak a.c., max, or 60 V d.c. in circuits isolated from MAINS PART by two MEANS OF PROTECTION	No cord connected hand-held control device, no cord connected foot-operated control device.	<b>N/A</b>
8.10.4.2	Connection and anchorage of a flexible cord to a HAND-HELD or foot-operated control device of ME EQUIPMENT, at both ends of the cable to the control device, complies with the requirements for POWER SUPPLY CORDS in Cl. 8.11.3		<b>N/A</b>
	Other HAND-HELD parts, if disturbance or breaking of one or more of the connections could result in a HAZARDOUS SITUATION, also comply with tests of Cl. 8.11.3		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
<b>8.10.5</b>	<b>Mechanical protection of wiring</b>		<b>N/A</b>
	a) Internal cables and wiring adequately protected against contact with a moving part or from friction at sharp corners and edges.....:	No internal moving part.	<b>N/A</b>
	b) Wiring, cord forms, or components are not likely to be damaged during assembly or during opening or closing of ACCESS COVERS	No access covers	<b>N/A</b>
8.10.6	Guiding rollers prevent bending of movable insulated conductors around a radius of less than five times the outer diameter of the lead	No guiding roller.	<b>N/A</b>
8.10.7	a) Insulating sleeve adequately secured.....:	See appended Table 8.10	<b>P</b>
	b) Sheath of a flexible cord not used as a MEANS OF PROTECTION inside ME EQUIPMENT when it is subject to mechanical or thermal stresses beyond its RATED characteristics	Within its rated characteristics. See the table 8.10.	<b>P</b>
	c) Insulated conductors of ME EQUIPMENT subject to temperatures exceeding 70 °C.....:	No such high temperature is acquired by test indicated in 11.1.	<b>P</b>
<b>8.11</b>	<b>MAINS PARTS, components and layout</b>		<b>P</b>
8.11.1	a) ME EQUIPMENT provided with means of electrically isolating its circuits from SUPPLY MAINS simultaneously on all poles.....:	Appliance coupler for open frame model. Plug for direct plug-in model.	<b>P</b>
	PERMANENTLY INSTALLED ME EQUIPMENT connected to a poly-phase SUPPLY MAINS equipped with a device not interrupting neutral conductor, provided local installation conditions prevent voltage on neutral conductor from exceeding limits in 8.4.2 c)	Not permanently installed.	<b>N/A</b>
	PERMANENTLY INSTALLED ME EQUIPMENT provided with means to isolate its circuits electrically from the SUPPLY MAINS are capable of being locked in the off position		<b>N/A</b>
	- the isolation device specified in the ACCOMPANYING DOCUMENTS		<b>N/A</b>
	b) Means of isolation incorporated in ME EQUIPMENT, or if external, described in technical description .....	Appliance coupler for open frame model. Plug for direct plug-in model.	<b>P</b>
	c) A SUPPLY MAINS switch used to comply with 8.11.1 a) complies with CREEPAGE / CLEARANCES for a MAINS TRANSIENT VOLTAGE of 4 kV.....:		<b>N/A</b>
	d) A SUPPLY MAINS switch not incorporated in a POWER SUPPLY CORD or external flexible lead		<b>N/A</b>
	e) Actuator of a SUPPLY MAINS switch used to comply with 8.11.1 a) complies with IEC 60447		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	f) A suitable plug device used in non-PERMANENTLY INSTALLED ME EQUIPMENT with no SUPPLY MAINS SWITCH.....:	Direct plug-in type	<b>P</b>
	g) A fuse or a semiconductor device not used as an isolating means		<b>P</b>
	h) ME EQUIPMENT not provided with a device causing disconnection of ME EQUIPMENT from SUPPLY MAINS by producing a short circuit resulting in operation of an overcurrent protection device		<b>P</b>
	i) Parts within ENCLOSURE of ME EQUIPMENT with a circuit > 42.4 V peak a.c. or 60 V d.c. that cannot be disconnected from its supply by an external switch or a plug device accessible at all times is protected against touch even after opening ENCLOSURE by an additional covering	No such part.	<b>N/A</b>
	A clear warning notice is marked on outside of ME EQUIPMENT to indicate it exceeds allowable touch voltage		<b>N/A</b>
	For a part that could not be disconnected from supply by an external switch or a plug device accessible at all times, the required cover or warning notice complied with this clause		<b>N/A</b>
	Standard test finger applied		<b>N/A</b>
8.11.2	MULTIPLE SOCKET-OUTLETS integral with ME EQUIPMENT complied with 16.2 d), second dash; and 16.9.2	No multiple socket-outlets.	<b>N/A</b>
<b>8.11.3</b>	<b>POWER SUPPLY CORDS</b>		<b>N/A</b>
8.11.3.1	MAINS PLUG not fitted with more than one POWER SUPPLY CORD	No power supply cord.	<b>N/A</b>
8.11.3.2	POWER SUPPLY CORDS are no less robust than ordinary tough rubber sheathed flexible cord (IEC 60245-1:2003, Annex A, designation 53) or ordinary polyvinyl chloride sheathed flexible cord (IEC 60227-1:1993, Annex A, design 53):	No power supply cord.	<b>N/A</b>
	Only polyvinyl chloride insulated POWER SUPPLY CORD with appropriate temperature rating used for ME EQUIPMENT having external metal parts with a temperature > 75 °C touchable by the cord in NORMAL USE .....		<b>N/A</b>
8.11.3.3	NOMINAL cross-sectional area of conductors of POWER SUPPLY CORDS of ME EQUIPMENT is not less than in Table 17.....:	No power supply cord.	<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	For ME EQUIPMENT utilizing POWER SUPPLY CORDS and operating at currents greater than 63 A, apply the electrical regulations appropriate for the jurisdiction in which the ME EQUIPMENT is to be used.	No power supply cord.	N/A
8.11.3.4	APPLIANCE COUPLERS complying with IEC 60320-1 are considered to comply with 8.11.3.5 and 8.11.3.6 .....	No power supply cord.	N/A
<b>8.11.3.5</b>	<b>Cord anchorage</b>		<b>P</b>
	a) Conductors of POWER SUPPLY CORD provided with strain relief and insulation protected from abrasion at point of entry to ME EQUIPMENT or a MAINS CONNECTOR by a cord anchorage		<b>P</b>
	b) Cord anchorage of POWER SUPPLY CORD is an insulating material, or		<b>P</b>
	– metal, insulated from conductive ACCESSIBLE PARTS non-PROTECTIVELY EARTHED by a MEANS OF PROTECTION, or		<b>N/A</b>
	– metal provided with an insulating lining affixed to cord anchorage		<b>N/A</b>
	c) Cord anchorage prevents cord from being clamped by a screw bearing directly on cord insulation		<b>P</b>
	d) Screws to be operated when replacing POWER SUPPLY CORD do not serve to secure any components		<b>N/A</b>
	e) Conductors of POWER SUPPLY CORD arranged to prevent PROTECTIVE EARTH CONDUCTOR against strain as long as phase conductors are in contact with their terminals		<b>P</b>
	f) Cord anchorage prevents POWER SUPPLY CORD from being pushed into ME EQUIPMENT or MAINS CONNECTOR		<b>NP</b>
	Conductors of POWER SUPPLY CORD supplied by MANUFACTURER disconnected from terminals or from MAINS CONNECTOR and cord subjected 25 times to a pull applied with no jerks, each time for 1 s, on sheath of the value in Table 18 .....		<b>P</b>
	Cord subjected to a torque in Table 18 for one minute immediately after pull tests		<b>P</b>
	Cord anchorage did not allow cord sheath to be longitudinally displaced by more than 2 mm or conductor ends to move over a distance of more than 1 mm from their connected position		<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	CREEPAGE and CLEARANCES not reduced below limits in 8.9		<b>P</b>
	It was not possible to push the cord into ME EQUIPMENT or MAINS CONNECTOR to an extent the cord or internal parts would be damaged		<b>P</b>
8.11.3.6	POWER SUPPLY CORDS protected against excessive bending at inlet opening of equipment		<b>P</b>
	Cord guard complied with test of IEC 60335-1:2001, Clause 25.14, or		<b>P</b>
	ME EQUIPMENT placed such that axis of cord guard projected at an angle of 45° with cord free from stress, and a mass equal 10 x D <sup>2</sup> gram attached to the free end of cord (g).....:		<b>P</b>
	Cord guard of temperature-sensitive material tested at 23 °C ± 2 °C, and flat cords bent in the plane of least resistance		<b>P</b>
	Curvature of the cord radius, immediately after mass attached, was not less than 1.5 x D .....		<b>P</b>
<b>8.11.4</b>	<b>MAINS TERMINAL DEVICES</b>		<b>N/A</b>
8.11.4.1	PERMANENTLY INSTALLED and ME EQUIPMENT with non-DETACHABLE POWER SUPPLY CORD provided with MAINS TERMINAL DEVICES ensuring reliable connection	No mains terminal device.	<b>N/A</b>
	Terminals alone are not used to keep conductors in position		<b>N/A</b>
	Terminals of components other than terminal blocks complying with requirements of this Clause and marked accordingly used as terminals intended for external conductors		<b>N/A</b>
	Screws and nuts clamping external conductors do not serve to secure any other component		<b>N/A</b>
<b>8.11.4.2</b>	<b>Arrangement of MAINS TERMINAL DEVICES</b>		<b>N/A</b>
	a) Terminals provided for connection of external cords or POWER SUPPLY CORDS together with PROTECTIVE EARTH TERMINAL grouped to provide convenient means of connection	No mains terminal device.	<b>N/A</b>
	d) MAINS TERMINAL DEVICES not accessible without use of a TOOL		<b>N/A</b>
	e) MEANS OF PROTECTION are not short circuited when one end of a flexible conductor with NOMINAL cross-sectional area is stripped 8 mm and a single free wire is bent in each possible direction		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
8.11.4.3	Internal wiring not subjected to stress and CREEPAGE and CLEARANCES not reduced after fastening and loosening a conductor of largest cross-sectional area 10 times		N/A
8.11.4.4	Terminals with clamping means for a rewireable flexible cord did not require special preparation of conductors and conductors were not damaged and did not slip out when clamping means tightened		N/A
8.11.4.5	Adequate space provided inside ME EQUIPMENT designed for FIXED wiring or a rewireable POWER SUPPLY CORD to allow for connection of conductors		N/A
	Correct connection and positioning of conductors before ACCESS COVER verified by an installation test		N/A
<b>8.11.5</b>	<b>Mains fuses and OVER-CURRENT RELEASES</b>		<b>P</b>
	A fuse or OVER-CURRENT RELEASE provided in each supply lead for CLASS I and CLASS II ME EQUIPMENT with a functional earth connection.....:	See appended Table 8.10	<b>P</b>
	- in at least one supply lead for other single-phase CLASS II ME EQUIPMENT.....:	See appended Table 8.10	<b>P</b>
	– neutral conductor not fused for PERMANENTLY INSTALLED ME EQUIPMENT	Not permanently installed.	N/A
	– fuses or OVER-CURRENT RELEASES omitted due to provision of two MEANS OF PROTECTION between all parts within MAINS PART	No such construction	N/A
	Protective devices have adequate breaking capacity based on MANUFACTURER'S expectation of the highest branch circuit current and/or prospective short circuit current:	See appended Table 8.10 To be evaluated on end product	<b>P</b>
	A fuse or OVER-CURRENT RELEASE not provided in a PROTECTIVE EARTH CONDUCTOR		<b>P</b>
	Justification for omission of fuses or OVER-CURRENT RELEASES documented.....:		N/A
<b>8.11.6</b>	<b>Internal wiring of the MAINS PART</b>		<b>P</b>
	a) Cross-sectional area of internal wiring in a MAINS PART between MAINS TERMINAL DEVICE or APPLIANCE INLET and protective devices suitable ..:	See appended Table 8.10 for details	<b>P</b>
	b) Cross-sectional area of other wiring in MAINS PART and sizes of tracks on printed wiring circuits are sufficient.....:	See appended Table 8.10 for details	<b>P</b>
<b>9</b>	<b>PROTECTION AGAINST MECHANICAL HAZARDS OF ME EQUIPMENT AND ME SYSTEMS</b>		<b>P</b>
<b>9.2</b>	<b>HAZARDS associated with moving parts</b>		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
9.2.1	When ME EQUIPMENT with moving parts PROPERLY INSTALLED, used per ACCOMPANYING DOCUMENTS or under foreseeable misuse, RISKS associated with moving parts reduced to an acceptable level.....:	No moving parts.	N/A
	Risk from contact with moving parts reduced to an acceptable level using protective measures, (access, function, shape of parts, energy, speed of motion, and benefits to PATIENT considered)		N/A
	RESIDUAL RISK associated with moving parts considered acceptable when exposure was needed for ME EQUIPMENT to perform its intended function, and		N/A
	RISK CONTROLS implemented.....:		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with moving parts.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
	All RISKS associated with moving parts have been reduced to an acceptable level		N/A
<b>9.2.2</b>	<b>TRAPPING ZONE</b>		<b>N/A</b>
9.2.2.1	ME EQUIPMENT with a TRAPPING ZONE complied with one or more of the following as feasible:	No trapping zone.	N/A
	– Gaps in Clause 9.2.2.2, or		N/A
	– Safe distances in Clause 9.2.2.3, or		N/A
	– GUARDS and other RISK CONTROL measures in 9.2.2.4, or		N/A
	– Continuous activation in Clause 9.2.2.5		N/A
	Control of relevant motion complied with 9.2.2.6 when implementation of above protective measures were inconsistent with INTENDED USE of ME EQUIPMENT or ME SYSTEM		N/A
9.2.2.2	A TRAPPING ZONE considered not to present a MECHANICAL HAZARD when gaps of TRAPPING ZONE complied with dimensions per Table 20.....:		N/A
9.2.2.3	A TRAPPING ZONE considered not to present a MECHANICAL HAZARD when distances separating OPERATOR, PATIENT, and others from TRAPPING ZONES exceeded values in ISO 13857:2008 ....:		N/A
<b>9.2.2.4</b>	<b>GUARDS and other RISK CONTROL measures</b>		<b>N/A</b>



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Clause	Requirement + Test	Result - Remark	Verdict
9.2.2.4.1	A TRAPPING ZONE do not to present a MECHANICAL HAZARD when GUARDS or other RISK CONTROL measures are of robust construction, not easy to bypass or render non-operational, and did not introduce additional unacceptable RISK.....:		N/A
9.2.2.4.2	FIXED GUARDS held in place by systems that can only be dismantled with a TOOL		N/A
9.2.2.4.3	Movable GUARDS that can be opened without a TOOL remained attached when GUARD was open		N/A
	– they are associated with an interlock preventing relevant moving parts from starting to move while TRAPPING ZONE is accessible, and stops movement when the GUARD is opened,		N/A
	– absence or failure of one of their components prevents starting, and stops moving parts		N/A
	Movable GUARDS complied with any applicable tests		N/A
9.2.2.4.4	Other RISK CONTROL designed and incorporated into to the control system stops movement and		N/A
	– SINGLE FAULT CONDITIONS have a second RISK CONTROL, or		N/A
	ME EQUIPMENT IS SINGLE FAULT SAFE		N/A
<b>9.2.2.5</b>	<b>Continuous activation</b>		N/A
	Continuous activation used as a RISK CONTROL, complies with the following		N/A
	a) movement was in OPERATOR's field of view		N/A
	b) movement of ME EQUIPMENT or its parts was possible only by continuous activation of control by OPERATOR		N/A
	c) a second RISK CONTROL provided for SINGLE FAULT CONDITION of continuous activation system, or		N/A
	- the continuous activation system is SINGLE FAULT SAFE		N/A
9.2.2.6	Speed of movement(s) positioning parts of ME EQUIPMENT or PATIENT limited to allow OPERATOR control of the movement		N/A
	Over travel of such movement occurring after operation of a control to stop movement, did not result in an unacceptable RISK		N/A
<b>9.2.3</b>	<b>Other MECHANICAL HAZARDS associated with moving parts</b>		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
9.2.3.1	Controls positioned, recessed, or protected by other means so that they cannot be accidentally actuated		N/A
	- unless for the intended PATIENT, the USABILITY ENGINEERING PROCESS concludes otherwise (e.g. PATIENT with special needs), or		N/A
	- activation does not result in an unacceptable RISK		N/A
9.2.3.2	Over travel past range limits of the ME EQUIPMENT prevented.....:		N/A
	Over travel means provided with mechanical strength to withstand loading in NORMAL CONDITION & reasonably foreseeable misuse.....:		N/A
<b>9.2.4</b>	<b>Emergency stopping devices</b>		N/A
	Where necessary to have one or more emergency stopping device(s), emergency stopping device complied with all the following, except for actuating switch capable of interrupting all power.....:		N/A
	a) Emergency stopping device reduced RISK to an acceptable level		N/A
	RISK MANAGEMENT FILE indicates the use of an emergency stopping device reduces the RISK to an acceptable level.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.5)		N/A
	b) Proximity and response of OPERATOR to actuate emergency stopping device could be relied upon to prevent HARM		N/A
	c) Emergency stopping device actuator was readily accessible to OPERATOR		N/A
	d) Emergency stopping device(s) are not part of normal operation of ME EQUIPMENT		N/A
	e) Emergency switching operation or stopping means neither introduced further HAZARD nor interfered with operation necessary to remove original MECHANICAL HAZARD		N/A
	f) Emergency stopping device was able to break full load of relevant circuit, including possible stalled motor currents and the like		N/A
	g) Means for stopping of movements operate as a result of one single action		N/A
	h) Emergency stopping device provided with an actuator in red and easily distinguishable and identifiable from other controls		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	i) An actuator interrupting/opening mechanical movements marked on or immediately adjacent to face of actuator with symbol 18 of Table D.1 or "STOP"		N/A
	j) Emergency stopping device, once actuated, maintained ME EQUIPMENT in disabled condition until a deliberate action, different from that used to actuate it, was performed		N/A
	k) Emergency stopping device is suitable for its application		N/A
9.2.5	Means provided to permit quick and safe release of PATIENT in event of breakdown of ME EQUIPMENT or failure of power supply, activation of a RISK CONTROL measure, or emergency stopping .....		N/A
	– and uncontrolled or unintended movement of ME EQUIPMENT that could result in an unacceptable RISK prevented		N/A
	– Situations where PATIENT is subjected to unacceptable RISKS due to proximity of moving parts, removal of normal exit routes, or other HAZARDS prevented		N/A
	– Measures provided to reduce RISK to an acceptable level when after removal of counterbalanced parts, other parts of ME EQUIPMENT can move in a hazardous way		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS to the PATIENT related to breakdown of the ME EQUIPMENT .....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
9.3	Rough surfaces, sharp corners and edges of ME EQUIPMENT that could result in injury or damage avoided or covered.....:	No rough surface / sharp edge.	P
<b>9.4</b>	<b>Instability HAZARDS</b>		<b>P</b>
9.4.1	ME EQUIPMENT and its parts, other than FIXED, for placement on a surface did not overbalance (tip over) or move unexpectedly in NORMAL USE	Desktop model.	P
<b>9.4.2</b>	<b>Instability – overbalance</b>		<b>P</b>
9.4.2.1	ME EQUIPMENT or its parts did not overbalance when prepared per ACCOMPANYING DOCUMENTS, or when tested .....	No transport position	N/A
<b>9.4.2.2</b>	<b>Instability excluding transport</b>		<b>P</b>
	ME EQUIPMENT or its did not overbalance when placed in different positions of NORMAL USE,.....:	See appended Table 9.4.2.2	P

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Clause	Requirement + Test	Result - Remark	Verdict
	A warning provided when overbalance occurred during 10° inclined plane test	10°, no overbalance	N/A
<b>9.4.2.3</b>	<b>Instability from horizontal and vertical forces</b>		<b>N/A</b>
	a) ME EQUIPMENT or its parts with a mass of 25kg or more, intended to be used on the floor, didn't overbalance due to pushing, leaning against it	Less than 25Kg	N/A
	Surfaces of ME EQUIPMENT or its parts where a RISK of overbalancing exists from pushing, etc., permanently marked with a warning of the RISK		N/A
	ME EQUIPMENT did not overbalance when tested according to Cl. 9.4.2.3 a)		N/A
	b) ME EQUIPMENT, for use on the floor or on a table, did not overbalance due to sitting or stepping		N/A
	ME EQUIPMENT or its parts, for use on the floor or on a table, where RISK of overbalancing exists, permanently marked with the RISK warning.....:		N/A
	ME EQUIPMENT did not overbalance when tested according to Cl. 9.4.2.3b).....:		N/A
<b>9.4.2.4</b>	<b>Castors and wheels</b>		<b>N/A</b>
9.4.2.4.1	Means used for transportation of MOBILE ME EQUIPMENT did not result in an unacceptable RISK when MOBILE ME EQUIPMENT moved or parked in NORMAL USE		N/A
9.4.2.4.2	Force required to move MOBILE ME EQUIPMENT did not exceed 200 N .....		N/A
9.4.2.4.3	MOBILE ME EQUIPMENT exceeding 45 kg able to pass over threshold .....		N/A
<b>9.4.3</b>	<b>Instability from unwanted lateral movement (including sliding)</b>		<b>N/A</b>
9.4.3.1	a) Brakes of power-driven MOBILE ME EQUIPMENT normally activated and could only be released by continuous actuation of a control		N/A
	b) MOBILE ME EQUIPMENT provided with locking means to prevent unwanted movements		N/A
	c) No unwanted lateral movement resulted when MOBILE ME EQUIPMENT placed in its transport position when test per 9.4.3.1		N/A
<b>9.4.3.2</b>	<b>Instability excluding transport</b>		<b>N/A</b>
	a) MOBILE ME EQUIPMENT provided with wheel locks or braking system compliant with 5° tilt test .....		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) MOBILE ME EQUIPMENT provided with wheel locks or braking system compliant with lateral stability test		N/A
<b>9.4.4</b>	<b>Grips and other handling devices</b>		N/A
	a) ME EQUIPMENT with a mass of over 20 kg requiring lifting in NORMAL USE or transport provided with suitable handling means, or ACCOMPANYING DOCUMENTS specify safe lifting method		N/A
	Handles, suitably placed to enable ME EQUIPMENT or its part to be carried by two or more persons and by examination of EQUIPMENT, its part, or ACCOMPANYING DOCUMENTS		N/A
	b) PORTABLE ME EQUIPMENT with a mass > 20 kg provided with one or more carrying-handles suitably placed to enable carrying by two or more persons as confirmed by actual carrying		N/A
	c) Carrying handles and grips and their means of attachment withstood loading test .....		N/A
<b>9.5</b>	<b>Expelled parts HAZARD</b>		N/A
9.5.1	Suitability of means of protecting against expelled parts determined by assessment and examination of RISK MANAGEMENT FILE ..... : (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	No expelled parts.	N/A
	All identified RISKS associated with expelled parts mitigated to an acceptable level		N/A
9.5.2	Cathode Ray tube(s) complied with IEC 60065:2001, Clause 18, or IEC 61965 .....		N/A
<b>9.6</b>	<b>Acoustic energy (including infra- and ultrasound) and vibration</b>		N/A
9.6.1	Human exposure to acoustic energy and vibration from ME EQUIPMENT doesn't result in unacceptable RISK and	Component, to be determined as part of end product	N/A
	If necessary, confirmed in RISK MANAGEMENT FILE including audibility of auditory alarm signals, and PATIENT sensitivity .....		N/A
	If necessary, confirmed in RISK MANAGEMENT FILE including audibility of auditory alarm signals, PATIENT sensitivity, and (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
	All identified RISKS mitigated to an acceptable level		N/A
<b>9.6.2</b>	<b>Acoustic energy</b>		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
9.6.2.1	PATIENT, OPERATOR, and other persons are not exposed to acoustic energy from ME EQUIPMENT in NORMAL USE	Component, to be determined as part of end product	N/A
	– 80 dBA for a cumulative exposure of 24 h over a 24 h period (dBA) .....		—
	– 83 dBA (when halving the cumulative exposure time) (dBA) .....		—
	– 140 dBC (peak) sound pressure level for impulsive or impact acoustic energy (dB).....		—
9.6.2.2	RISK MANAGEMENT FILE examined ..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
<b>9.6.3</b>	<b>Hand-transmitted vibration</b>		<b>N/A</b>
	Means provided to protect PATIENT and OPERATOR when hand-transmitted frequency-weighted r.m.s. acceleration generated in NORMAL USE exceeds specified values	No vibration.	N/A
	– 2.5 m/s <sup>2</sup> for a cumulative time of 8 h during a 24 h period (m/s <sup>2</sup> ) .....		N/A
	– Accelerations for different times, inversely proportional to square root of time (m/s <sup>2</sup> ).....		N/A
<b>9.7</b>	<b>Pressure vessels and parts subject to pneumatic and hydraulic pressure</b>		<b>N/A</b>
9.7.2	Pneumatic and hydraulic parts of ME EQUIPMENT or ACCESSORIES met requirements based on examination of RISK MANAGEMENT FILE ..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	No such parts.	N/A
	– No unacceptable RISK resulted from loss of pressure or loss of vacuum		N/A
	– No unacceptable RISK resulted from a fluid jet caused by leakage or a component failure		N/A
	– Elements of ME EQUIPMENT or an ACCESSORY, especially pipes and hoses leading to an unacceptable RISK protected against harmful external effects		N/A
	– Reservoirs and similar vessels leading to an unacceptable RISK are automatically depressurized when ME EQUIPMENT is isolated from its power supply		N/A
	Means provided for isolation, or local depressurizing reservoirs and similar vessels, and pressure indication when above not possible		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– All elements remaining under pressure after isolation of ME EQUIPMENT or an ACCESSORY from its power supply resulting in an unacceptable RISK provided with clearly identified exhaust devices, and a warning to depressurize these elements before setting or maintenance activity		N/A
9.7.4	MAXIMUM EQUIPMENT PRESSURE did not exceed MAXIMUM PERMISSIBLE WORKING PRESSURE for the part, except allowed for pressure relief devices in 9.7.7 confirmed by inspection of THE MANUFACTURER'S data for the component, ME EQUIPMENT, and by functional tests .....		N/A
9.7.5	A pressure vessel withstood a HYDRAULIC TEST PRESSURE when MAXIMUM EQUIPMENT PRESSURE was more than 50 kPa, and product of MAXIMUM EQUIPMENT PRESSURE and volume was more than 200 kPa .....		N/A
9.7.6	Pressure-control device regulating pressure in ME EQUIPMENT with pressure-relief device completed 100,000 cycles of operation under RATED load and prevented pressure from exceeding 90 % of setting of pressure-relief device in different conditions of NORMAL USE .....		N/A
9.7.7	Pressure-relief device(s) used where MAXIMUM PERMISSIBLE WORKING PRESSURE could otherwise be exceeded met the following, as confirmed by MANUFACTURER'S data, ME EQUIPMENT, RISK MANAGEMENT FILE, and functional tests .....		N/A
	a) Connected as close as possible to pressure vessel or parts of system it is to protect		N/A
	b) Installed to be readily accessible for inspection, maintenance, and repair		N/A
	c) Could be adjusted or rendered inoperative without a TOOL		N/A
	d) With discharge opening located and directed as to not to release material towards any person		N/A
	e) With discharge opening located and directed as to not to deposit material on parts that could result in an unacceptable RISK		N/A
	f) Adequate discharge capacity provided to ensure that pressure will not exceed MAXIMUM PERMISSIBLE EQUIPMENT PRESSURE of system it is connected to by more than 10 % when failure occurs in control of supply pressure		N/A
	g) No shut-off valve provided between a pressure-relief device and parts it is to protect		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	h) Min number of cycles of operation 100 000, except for one-time use devices (bursting disks)		N/A
	RISK MANAGEMENT FILE includes an assessment of the risks associated with the discharge opening of the pressure relief device ..... : (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
<b>9.8</b>	<b>HAZARDS associated with support systems</b>		N/A
9.8.1	ME EQUIPMENT parts designed to support loads or provide actuating forces when a mechanical fault could constitute an unacceptable RISK ..... :	No support systems.	N/A
	– Construction of support, suspension, or actuation system complied with Table 21 and TOTAL LOAD		N/A
	– Means of attachment of ACCESSORIES prevent possibility of incorrect attachment that could result in an unacceptable RISK		N/A
	– RISK ANALYSIS of support systems included MECHANICAL HAZARDS from static, dynamic, vibration, foundation and other movements, impact and pressure loading, temperature, environmental, manufacture and service conditions ..... : (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
	– RISK ANALYSIS included effects of failures such as excessive deflection, plastic deformation, ductile/brittle fracture, fatigue fracture, instability (buckling), stress-assisted corrosion cracking, wear, material creep and deterioration, and residual stresses from manufacturing PROCESSES		N/A
	– Instructions on attachment of structures to a floor, wall, ceiling, included in ACCOMPANYING DOCUMENTS making adequate allowances for quality of materials used to make the connection and list the required materials		N/A
	Additional instructions provided on checking adequacy of surface of structure parts will be attached to		N/A
9.8.2	Support systems maintain structural integrity during EXPECTED SERVICE LIFE, and TENSILE SAFETY FACTORS are not less than in Table 21, except when an alternative method used to demonstrate structural integrity throughout EXPECTED SERVICE LIFE, or for a foot rest		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Compliance with 9.8.1 and 9.8.2 confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications and material processing.....:		N/A
	RISK MANAGEMENT FILE includes an assessment of the structural integrity of support system.....: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
	All identified RISKS are mitigated to an acceptable level		N/A
	When test was conducted, testing consisted of application of a test load to support assembly equal to TOTAL LOAD times required TENSILE SAFETY FACTOR while support assembly under test was in equilibrium after 1 min, or not resulted in an unacceptable RISK.....:		N/A
	Where the equipment is not at equilibrium after 1 min, the RISK MANAGEMENT FILE includes an assessment of the test results .....: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
<b>9.8.3</b>	<b>Strength of PATIENT or OPERATOR support or suspension systems</b>		N/A
9.8.3.1	ME EQUIPMENT parts supporting or immobilizing PATIENTS presents no unacceptable RISK of physical injuries and accidental loosening of secured joints .....:		N/A
	RISK MANAGEMENT FILE includes assessment of the RISKS associated with physical injuries and accidental loosening of fixings.....: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
	SAFE WORKING LOAD of ME EQUIPMENT or its parts supporting or suspending PATIENTS or OPERATORS is sum of mass of PATIENTS or mass of OPERATORS plus mass of ACCESSORIES supported by ME EQUIPMENT or its parts		N/A
	Supporting and suspending parts for adult human PATIENTS or OPERATORS designed for a PATIENT or OPERATOR with a min mass of 135 kg and ACCESSORIES with a min mass of 15 kg, unless stated by MANUFACTURER		N/A
	Maximum mass of PATIENT included in SAFE WORKING LOAD of ME EQUIPMENT or its parts supporting or suspending PATIENTS adapted when MANUFACTURER specified applications		N/A
	Max allowable PATIENT mass < 135 kg marked on ME EQUIPMENT and stated in ACCOMPANYING DOCUMENTS		N/A
	Max allowable PATIENT mass over 135 kg stated in ACCOMPANYING DOCUMENTS		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Examination of markings, ACCOMPANYING DOCUMENTS, and RISK MANAGEMENT FILE confirmed compliance .....		N/A
9.8.3.2	a) Entire mass of PATIENT or OPERATOR distributed over an area of 0.1 m <sup>2</sup> on a foot rest temporarily supporting a standing PATIENT or OPERATOR.....		N/A
	Compliance confirmed by examination of ME EQUIPMENT specifications of materials and their processing, and tests.....		N/A
	b) Deflection of a support surface from PATIENT or OPERATOR loading on an area of support/ suspension where a PATIENT or OPERATOR can sit did not result in an unacceptable RISK		N/A
	Compliance confirmed by examination of ME EQUIPMENT, specifications of materials and their processing, and by a test .....		N/A
9.8.3.3	Dynamic forces that can be exerted on equipment parts supporting or suspending a PATIENT or OPERATOR in NORMAL USE maintained BASIC SAFETY and ESSENTIAL PERFORMANCE confirmed test		N/A
<b>9.8.4</b>	<b>Systems with MECHANICAL PROTECTIVE DEVICES</b>		N/A
9.8.4.1	a) A MECHANICAL PROTECTIVE DEVICE provided for the support system		N/A
	b) MECHANICAL PROTECTIVE complies with the requirements as follows:		N/A
	– Designed based on TOTAL LOAD		N/A
	– Has TENSILE SAFETY FACTORS for all parts not less than Table 21, row 7		N/A
	– Activated before travel produced an unacceptable RISK		N/A
	– Considers Clauses 9.2.5 and 9.8.4.3		N/A
	Compliance confirmed by examination of ME EQUIPMENT over travel calculations and evaluation plus functional tests .....		N/A
9.8.4.2	Activation of MECHANICAL PROTECTIVE DEVICE is made obvious to OPERATOR when ME EQUIPMENT can still be used after failure of suspension or actuation means and activation of a MECHANICAL PROTECTIVE DEVICE		N/A
	MECHANICAL PROTECTIVE DEVICE requires use of a TOOL to be reset or replaced		N/A
<b>9.8.4.3</b>	<b>MECHANICAL PROTECTIVE DEVICE intended to function once</b>		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	–use of ME EQUIPMENT not possible until replacement of MECHANICAL PROTECTIVE DEVICE . :		N/A
	– ACCOMPANYING DOCUMENTS provided with required information on replacement by service personal		N/A
	– ME EQUIPMENT permanently marked with SAFETY SIGN 2 of Table D.		N/A
	– Marking is adjacent to MECHANICAL PROTECTIVE DEVICE		N/A
	– Compliance confirmed by examination and following test..... :		N/A
	A chain, cable, band, spring, belt, jack screw nut, pneumatic or hydraulic hose, structural part or the like, employed to support a load, defeated by a convenient means causing maximum normal load to fall from most adverse position permitted by construction of ME EQUIPMENT		N/A
	Load included SAFE WORKING LOAD in 9.8.3.1 when system was capable of supporting a PATIENT or OPERATOR		N/A
	No evidence of damage to MECHANICAL PROTECTIVE DEVICE affecting its ability to perform its intended function		N/A
<b>9.8.5</b>	<b>Systems without MECHANICAL PROTECTIVE DEVICES</b>		N/A
	Support Systems does not require MECHANICAL PROTECTIVE DEVICES..... :		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with wear on the support system ..... : (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
<b>10</b>	<b>PROTECTION AGAINST UNWANTED AND EXCESSIVE RADIATION HAZARDS</b>		N/A
<b>10.1</b>	<b>X-Radiation</b>		N/A
10.1.1	The air kerma did not exceed 5 µGy/hat 5 cm from surface of ME EQUIPMENT ..... :	No X-radiation.	N/A
	Annual exposure reduced taking into account the irradiated body part, national regulations, and/or international recommendations for ME EQUIPMENT that has permanent proximity to a PATIENT as part of the INTENDED USE		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10.1.2	RISK from unintended X-radiation from ME EQUIPMENT producing X-radiation for diagnostic and therapeutic purposes addressed application of applicable particular and collateral standards, or .....		N/A
	RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
10.2	RISK associated with alpha, beta, gamma, neutron, and other particle radiation, addressed in RISK MANAGEMENT PROCESS as shown in RISK MANAGEMENT FILE .....	No such radiation.	N/A
	(ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		
10.3	The power density of unintended microwave radiation at frequencies between 1 GHz and 100 GHz does not exceed 10 W/m <sup>2</sup>		N/A
	Microwave radiation is propagated intentionally		N/A
10.4	Relevant requirements of IEC 60825-1:2014 applied to lasers including laser diodes, laser light barriers or similar with a wavelength range of 180nm to 1 mm.	No laser	N/A
10.5	RISK associated with visible electromagnetic radiation other than emitted by lasers when applicable, addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE ...	No such radiation.	N/A
	(ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		
10.6	RISK associated with infrared radiation other than emitted by lasers addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE .....	No such radiation.	N/A
	(ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		
10.7	RISK associated with ultraviolet radiation other than emitted by lasers and LEDs addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE .....	No such radiation.	N/A
	(ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		
<b>11</b>	<b>PROTECTION AGAINST EXCESSIVE TEMPERATURES AND OTHER HAZARDS</b>		<b>P</b>
<b>11.1</b>	<b>Excessive temperatures in ME EQUIPMENT</b>		<b>P</b>
11.1.1	Temperatures on ACCESSIBLE PARTS did not exceed values in Tables 22 and.....	See appended Table 11.1.1	P
	Surfaces of test corner did not exceed 90 °C		P
	THERMAL CUT-OUTS did not operate in NORMAL CONDITION	No thermal cut-out	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	RISK MANAGEMENT FILE includes an assessment of the duration of contact for all APPLIED PARTS and ACCESSIBLE PARTS..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
<b>11.1.2</b>	<b>Temperature of APPLIED PARTS</b>		N/A
11.1.2.1	APPLIED PARTS (hot or cold intended to supply heat to a PATIENT comply.....	No applied parts.	N/A
	Clinical effects determined and documented in the RISK MANAGEMENT FILE (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
	Temperature (hot or cold) of APPLIED PARTS intended to supply heat to a PATIENT disclosed in the instructions for use		N/A
11.1.2.2	APPLIED PARTS not intended to supply heat to a PATIENT complies with the limits of Table 24 in NORMAL CONDITION and SINGLE FAULT CONDITION ...		N/A
	APPLIED PARTS surface temperature exceeds 41°C disclosed in the instruction manual:		N/A
	Maximum Temperature .....		—
	Conditions for safe contact, e.g. duration or condition of the PATIENT .....		—
	Clinical effects with respect to characteristics taken or surface pressure documented in the RISK MANAGEMENT FILE (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
	APPLIED PARTS surface temperature of equal to or less than 41°C		N/A
	Analysis documented in the RISK MANAGEMENT FILE show that APPLIED PART temperatures are not affected by operation of the ME EQUIPMENT including SINGLE FAULT CONDITIONS. Measurement of APPLIED PART temperature according to 11.1.3 is not conducted .....		N/A
	Surfaces of APPLIED PARTS that are cooled below ambient temperatures evaluated in the RISK MANAGEMENT PROCESS..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
11.1.3	Measurements not made when engineering judgment and rationale by MANUFACTURER indicated temperature limits could not exceed, as documented in RISK MANAGEMENT FILE..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	No such temperature limits.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test corner not used where engineering judgment and rationale by MANUFACTURER indicated test corner will not impact measurements, as documented in RISK MANAGEMENT FILE ..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	Test corner used	N/A
	Probability of occurrence and duration of contact for parts likely to be touched and for APPLIED PARTS documented in RISK MANAGEMENT FILE ..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	No such guards.	N/A
	e) Where thermal regulatory devices make this method inappropriate, alternative methods for measurement are justified in the RISK MANAGEMENT FILE .....	No alternative method	N/A
11.1.4	GUARDS preventing contact with hot or cold accessible surfaces removable only with a TOOL	No such guards.	N/A
<b>11.2</b>	<b>Fire prevention</b>		<b>P</b>
11.2.1	ENCLOSURE has strength and rigidity necessary to prevent a fire and met mechanical strength tests for ENCLOSURES in 15.3	Certified enclosure	<b>P</b>
<b>11.2.2</b>	<b>Me equipment and me systems used in conjunction with OXYGEN RICH ENVIRONMENTS</b>		<b>N/A</b>
11.2.2.1	RISK of fire in an OXYGEN RICH ENVIRONMENT reduced by means limiting spread of .....	Not used in oxygen rich environments me equipment	N/A
	a) No sources of ignition discovered in an OXYGEN RICH ENVIRONMENT under any of the following conditions		N/A
	1) when temperature of material raised to its ignition temperature		N/A
	2) when temperatures affected solder or solder joints causing loosening, short circuiting, or other failures causing sparking or increasing material temperature to its ignition temperature		N/A
	3) when parts affecting safety cracked or changed outer shape exposing temperatures higher than 300°C or sparks due to overheating		N/A
	4) when temperatures of parts or components exceeded 300°C, atmosphere was 100 % oxygen, contact material solder, and fuel cotton		N/A
	5) when sparks provided adequate energy for ignition by exceeding limits of Figs 35 to 37 (inclusive), atmosphere was 100 % oxygen, contact material solder, and fuel cotton		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Deviations from worst case limits in 4) and 5) above based on lower oxygen concentrations or less flammable fuels justified and documented in RISK MANAGEMENT FILE.....: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
	Alternative test in this clause did not identify existence of ignition sources at highest voltage or current, respectively.....:		N/A
	A safe upper limit determined by dividing upper limit of voltage or current, respectively, with safety margin factor of three .....		N/A
	b) RESIDUAL RISK of fire in an OXYGEN RICH ENVIRONMENT as determined by application of RISK MANAGEMENT PROCESS is based on following configurations, or in combination .....: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
	1) Electrical components in an OXYGEN RICH ENVIRONMENT provided with power supplies having limited energy levels lower than those considered sufficient for ignition in 11.2.2.1 a) as determined by examination, measurement or calculation of power, energy, and temperatures in NORMAL and SINGLE FAULT CONDITIONS identified in 11.2.3.....:		N/A
	2) Max oxygen concentration measured until it did not exceed 25 % in ventilated compartments with parts that can be a source of ignition only in SINGLE FAULT CONDITION and can be penetrated by oxygen due to an undetected leak (%).....:		N/A
	3) A compartment with parts or components that can be a source of ignition only under SINGLE FAULT CONDITION separated from another compartment containing an OXYGEN RICH ENVIRONMENT by sealing all joints and holes for cables, shafts, or other purposes		N/A
	Effect of possible leaks and failures under SINGLE FAULT CONDITION that could cause ignition evaluated using a RISK ASSESSMENT to determine maintenance intervals by examination of documentation and RISK MANAGEMENT FILE.....:		N/A
	4) Fire initiated in ENCLOSURE of electrical components in a compartment with OXYGEN RICH ENVIRONMENT that can become a source of ignition only under SINGLE FAULT CONDITIONS self-extinguished rapidly and no hazardous amount of toxic gases reached PATIENT as determined by analysis of gases .....		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
11.2.2.2	RISK of ignition did not occur, and oxygen concentration did not exceed 25% in immediate surroundings due to location of external exhaust outlets of an OXYGEN RICH ENVIRONMENT		N/A
11.2.2.3	Electrical connections within a compartment containing an OXYGEN RICH ENVIRONMENT under NORMAL USE did not produce sparks		N/A
	– Screw-attachments protected against loosening during use by varnishing, use of spring washers, or adequate torques		N/A
	– Soldered, crimped, and pin-and-socket connections of cables exiting ENCLOSURE include additional mechanical securing means		N/A
<b>11.2.3</b>	<b>SINGLE FAULT CONDITIONS related to OXYGEN RICH ENVIRONMENTS ME EQUIPMENT and ME SYSTEMS considered</b>		<b>N/A</b>
	– Failure of a ventilation system constructed in accordance with 11.2.2.1 b) 2).....:	Not oxygen rich environments me equipment.	N/A
	– Failure of a barrier constructed in accordance with 11.2.2.1 b) 3).....:		N/A
	– Failure of a component creating a source of ignition (as defined in 11.2.2.1 a).....:		N/A
	– Failure of solid insulation or creepage and clearances providing equivalent of at least one MEANS OF PATIENT PROTECTION but less than two MEANS OF PATIENT PROTECTION that could create a source of ignition defined in 11.2.2.1 a).....:		N/A
	– Failure of a pneumatic component resulting in leakage of oxygen-enriched gas.....:		N/A
<b>11.3</b>	<b>Constructional requirements for fire ENCLOSURES of ME EQUIPMENT</b>		<b>P</b>
	ME EQUIPMENT met this clause for alternate means of compliance with selected HAZARDOUS SITUATIONS and fault conditions in 13.1.2.....:	GT-RM2013-010 Cl. 6.3 H2	<b>P</b>
	Constructional requirements were met, or		<b>P</b>
	- constructional requirements specifically analysed in RISK MANAGEMENT FILE ..... : (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
	Justification, when requirement not met.....:		N/A
	a) Flammability classification of insulated wire and connectors within fire ENCLOSURE is minimum V-2, , when test in accordance with IEC 60695-11-10 or :	See appended Table 8.10	<b>P</b>
	insulated with PVC, TFE, PTFE, FEP, polychloroprene or polyimide as determined by examination of data on materials.....:		<b>P</b>



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Clause	Requirement + Test	Result - Remark	Verdict
	Flammability classification of printed circuit boards, and insulating material on which components are mounted is V-2, or better, based on IEC 60695-11-10 as decided by examination of materials data.....:	See appended Table 8.10	<b>P</b>
	If no Certification, V tests based on IEC 60695-11-10 conducted on 3 samples of complete parts (or sections of it), including area with min. thickness, ventilation openings	UL 94 approved.	<b>N/A</b>
	b) Fire ENCLOSURE met following:		<b>P</b>
	1) No openings at bottom or, as specified in Fig 39, constructed with baffles as in Fig 38, or made of perforated metal as in Table 25, or a metal screen with a mesh $\leq 2 \times 2$ mm centre to centre and wire diameter of at least 0.45 mm	No openings on the enclosure. Final determination to be competed in the end product for open frame model.	<b>P</b>
	2) No openings on the sides within the area included within the inclined line C in Fig 39 or made of perforated metal as in Table 25, or a metal screen with a mesh $\leq 2 \times 2$ mm centre to centre and wire diameter of at least 0.45 mm		<b>P</b>
	3) ENCLOSURE, baffles, and flame barriers have adequate rigidity and are made of appropriate metal or of non-metallic materials.....:	See appended Table 8.10	<b>P</b>
<b>11.4</b>	<b>ME EQUIPMENT and ME SYSTEMS intended for use with flammable anaesthetics</b>		<b>N/A</b>
	ME EQUIPMENT, ME SYSTEMS and parts described in ACCOMPANYING DOCUMENTS for use with flammable with Annex G	Not category ap or category apg Me equipment.	<b>N/A</b>
<b>11.5</b>	<b>ME EQUIPMENT and ME SYSTEMS intended for use in conjunction with flammable agents</b>		<b>N/A</b>
	MANUFACTURER'S RISK MANAGEMENT PROCESS addresses possibility of fire and associated mitigations as confirmed by examination of RISK MANAGEMENT FILE .....: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	No intended for use in conjunction with flammable agents	<b>N/A</b>
<b>11.6</b>	<b>Overflow, spillage, leakage, ingress of water or particulate matter, cleaning, disinfection, sterilization and compatibility with substances used with the ME EQUIPMENT</b>		<b>P</b>
<b>11.6.1</b>	Sufficient degree of protection provided against overflow, spillage, leakage, ingress of water or particulate matter, cleaning, disinfection and sterilization, and compatibility with substances used with ME EQUIPMENT.....:	Final determination to be competed in the end product. EUT is ordinary.	<b>N/A</b>
<b>11.6.2</b>	<b>Overflow in ME EQUIPMENT</b>		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	ME EQUIPMENT incorporates a reservoir or liquid storage that did not wet any MEANS OF PROTECTION, nor result in the loss of BASIC SAFETY or ESSENTIAL PERFORMANCE.....:	No such situation.	N/A
	Maximum fill level is indicated by marking on the ME EQUIPMENT and a warning or safety notice is given, no HAZARDOUS SITUATION (as specified in 13.1) or unacceptable RISK due to overflow developed when the reservoir or liquid storage chamber is filled to its maximum capacity and the TRANSPORTABLE ME EQUIPMENT is tilted through an angle of 10°, or for MOBILE ME EQUIPMENT exceeding 45 kg, is moved over a threshold as described in 9.4.2.4.3.		N/A
	No warning or safety notice provided regarding the maximum fill level, no HAZARDOUS SITUATION (as specified in 13.1) or unacceptable RISK due to overflow developed when the reservoir or liquid storage chamber was filled to 15 % above the maximum capacity and the TRANSPORTABLE ME EQUIPMENT was tilted through an angle of 10°, or in MOBILE ME EQUIPMENT exceeding 45 kg, was moved over a threshold as described in 9.4.2.4.3.		N/A
<b>11.6.3</b>	<b>Spillage on ME EQUIPMENT and ME SYSTEM</b>		<b>N/A</b>
	ME EQUIPMENT and ME SYSTEMS handling liquids constructed that spillage does not wet parts as determined by review of the RISK MANAGEMENT FILE and test.....: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	No such situation.	N/A
	RISK ANALYSIS identifies the type of liquid, volume, duration and location of the spill.....:		N/A
<b>11.6.5</b>	<b>Ingress of water or particulate matter into ME EQUIPMENT and ME SYSTEMS</b>		<b>P</b>
	ME EQUIPMENT with IP Code placed in least favourable position of NORMAL USE and subjected to tests of IEC 60529 (IP Code).....:	EUT is ordinary.	N/A
	ME EQUIPMENT met dielectric strength and LEAKAGE CURRENT tests and there were no bridging of insulation or electrical components that could result in the loss of BASIC SAFETY or ESSENTIAL PERFORMANCE in NORMAL CONDITION or in combination with a SINGLE FAULT CONDITION..	See appended Tables 8.7 8.8.3	<b>P</b>
<b>11.6.6</b>	<b>Cleaning and disinfection of ME EQUIPMENT and ME SYSTEMS</b>		<b>N/A</b>
	ME EQUIPMENT/ME SYSTEM and their parts and ACCESSORIES cleaned or disinfected using methods specified in instructions for use.....:	No cleaning & disinfection requirement.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Effects of multiple cleanings/disinfections during EXPECTED SERVICE LIFE of EQUIPMENT evaluated by MANUFACTURER.....:		N/A
<b>11.6.7</b>	<b>Sterilization of ME EQUIPMENT and ME SYSTEMS</b>		N/A
	ME EQUIPMENT, ME SYSTEMS and their parts or ACCESSORIES intended to be sterilized assessed and documented and compliant with tests.....:	No sterilization requirement.	N/A
	RISK MANAGEMENT FILE includes an assessment of the RISKS associated with any deterioration following sterilization.....: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		N/A
11.6.8	RISKS associated with compatibility of substances used with ME EQUIPMENT addressed in RISK MANAGEMENT PROCESS.....: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	Final determination to be competed in the end product.	N/A
11.7	ME EQUIPMENT, ME SYSTEM, and ACCESSORIES coming into direct or indirect contact with biological tissues, cells, or body fluids assessed and documented	No such parts.	N/A
11.8	Interruption and restoration of power supply did not result in a loss of BASIC SAFETY or ESSENTIAL PERFORMANCE	No such situation.	N/A
<b>12</b>	<b>ACCURACY OF CONTROLS AND INSTRUMENTS AND PROTECTION AGAINST HAZARDOUS OUTPUTS</b>		N/A
12.1	RISKS associated with accuracy of controls and instruments stated .....: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	No such control.	N/A
12.2	RISK of poor USABILITY, including identification, marking, and documents addressed in a USABILITY ENGINEERING.....:	Not applicable to component power supply.	N/A
12.3	MANUFACTURER implemented an ALARM SYSTEM compliant with IEC 60601-1-8:2006, IEC 60601-1-8:2006/AMD1:2012 and IEC 60601-1-8:2006/AMD2:2020.....:	No alarm system.	N/A
<b>12.4</b>	<b>Protection against hazardous output</b>		N/A
12.4.1	RISKS associated with hazardous output arising from intentional exceeding of safety limits addressed in RISK MANAGEMENT PROCESS.....: (ISO 14971 Cl. 4.2-4.4, 5, 6.2-6.5)	No hazardous output.	N/A
12.4.2	- need for indication associated with hazardous output addressed in RISK MANAGEMENT PROCESS... (ISO 14971 Cl. 4.2-4.4, 5, 6.2-6.5)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
12.4.3	RISKS associated with accidental selection of excessive output values for ME EQUIPMENT with a multi-purpose unit addressed in RISK MANAGEMENT PROCESS..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
12.4.4	RISKS associated with incorrect output addressed in RISK MANAGEMENT PROCESS ..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
<b>12.4.5</b>	<b>Diagnostic or therapeutic radiation</b>		<b>N/A</b>
12.4.5.1	Adequate provisions to protect OPERATORS, PATIENTS, other persons and sensitive devices in vicinity of unwanted or excessive radiation	No radiation for diagnostic/therapeutic purposes.	N/A
	Radiation safety ensured by compliance with requirements of appropriate standards		N/A
12.4.5.2	ME EQUIPMENT and ME SYSTEMS designed to produce X-radiation for diagnostic imaging purposes complied with IEC 60601-1-3 .....		N/A
12.4.5.3	RISKS associated with radiotherapy addressed in RISK MANAGEMENT PROCESS as..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
12.4.5.4	RISKS associated with ME EQUIPMENT producing diagnostic or therapeutic radiation other than diagnostic X-rays and radiotherapy addressed in RISK MANAGEMENT PROCESS as..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
12.4.6	RISKS associated with diagnostic or therapeutic acoustic pressure addressed in RISK MANAGEMENT..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	No diagnostic or therapeutic acoustic pressure.	N/A
<b>13</b>	<b>HAZARDOUS SITUATIONS AND FAULT CONDITIONS</b>		<b>P</b>
<b>13.1</b>	<b>Specific HAZARDOUS SITUATIONS</b>		<b>P</b>
<b>13.1.2</b>	<b>Emissions, deformation of ENCLOSURE or exceeding maximum temperature</b>		<b>P</b>
	– Emission of flames, molten metal, poisonous or ignitable substance in hazardous quantities did not occur		<b>P</b>
	– Deformation of ENCLOSURE impairing compliance with 15.3.1 did not occur		<b>P</b>
	– Temperatures of APPLIED PARTS did not exceed allowable values in Table 24 .....	No applied parts.	<b>P</b>
	– Temperatures of Accessible PARTS THAT ARE LIKELY TO BE TOUCHED, but not intended to be touched did not exceed limits in Table 34 .....	See appended Table 11.1.1	<b>P</b>
	- Temperatures of ACCESSIBLE PARTS intended to be touched did not exceed limits in Table 23		<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	–Allowable values for “other components and materials” in Table 22 times 1.5 minus 12.5 °C were not exceeded		<b>P</b>
	Limits for windings in Tables 26, 27, and 31 not exceeded		<b>P</b>
	Table 22 not exceeded in all other cases		<b>P</b>
	Temperatures measured according to 11.1.3		<b>P</b>
	SINGLE FAULT CONDITIONS in 4.7, 8.1 b), 8.7.2, and 13.2.2 relative to emission of flames, molten metal, or ignitable substances, not applied to parts and components where:		<b>P</b>
	– Supply circuit was unable to supply 15 W one minute after 15 W drawn from supply circuit in SINGLE FAULT CONDITION .....	See appended Table 13.1.2	<b>N/A</b>
	- or secondary circuits mounted on materials with a minimum flame rating of -V1, and		<b>N/A</b>
	- Secondary circuits energized by less than 60 Vdc, 42.4 Vpeak in NC and SFC, and		<b>N/A</b>
	- Secondary circuits limited to 100 VA or 6000 J in NC and SFC, and		<b>N/A</b>
	- Wire insulation in secondary circuits of types PVC, TFE, PTFE, FEP, polychloroprene or polybromide		<b>N/A</b>
	- or components in the circuit have HIGH INTEGRITY CHARACTERISTICS.....		<b>N/A</b>
	– or parts and components completely contained within a fire ENCLOSURE complying with 11.3 as verified by review of design documentation		<b>N/A</b>
	After tests of this Clause, settings of THERMAL CUT-OUTS and OVER-CURRENT RELEASES did not change sufficiently to affect their safety function	See appended Table 13.1.2	<b>P</b>
13.1.3	– limits for LEAKAGE CURRENT in SINGLE FAULT CONDITION did not exceed.....	See appended Table 8.7	<b>P</b>
	– voltage limits for ACCESSIBLE PARTS and APPLIED PARTS did not exceed.....	See appended Table 8.7	<b>P</b>
<b>13. 2</b>	<b>SINGLE FAULT CONDITIONS</b>		<b>P</b>
13.2.1	During the application of the SINGLE FAULT CONDITIONS listed in 13.2.2 to 13.2.13 (inclusive), the NORMAL CONDITIONS identified in 8.1 a) also applied in the least favourable combination		<b>P</b>
	ME EQUIPMENT complied with 13.2.2 -13.2.12.....	See appended Table 13.2	<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with leakage of liquid in a SINGLE FAULT CONDITION.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific risks: GT-RM2013-010 6.3 & 6.4 EL7	<b>P</b>
	RISK MANAGEMENT FILE defines the appropriate test conditions.....:		<b>N/A</b>
13.2.13	ME EQUIPMENT remained safe after tests of 13.2.13.2 to 13.2.13.4, and cooling down to within 3 °C of test environment temperature		<b>P</b>
	ME EQUIPMENT examined for compliance or appropriate tests such as dielectric strength of motor insulation according to 8.8.3 conducted		<b>N/A</b>
			<b>N/A</b>
<b>13.2.13.2</b>	<b>ME EQUIPMENT with heating elements</b>		<b>N/A</b>
	a 1) thermostatically controlled ME EQUIPMENT with heating elements for building-in, r for unattended operation, or with a capacitor not protected by a fuse connected in parallel with THERMOSTAT contacts met tests	No Heating Elements provided	<b>N/A</b>
	a 2) ME EQUIPMENT with heating elements RATED for non-CONTINUOUS OPERATION met tests		<b>N/A</b>
	a 3) other ME EQUIPMENT with heating elements met test		<b>N/A</b>
	When more than one test was applicable to same ME EQUIPMENT, tests performed consecutively		<b>N/A</b>
	Heating period stopped when a heating element or an intentionally weak part of a non-SELF-RESETTING THERMAL CUT-OUT ruptured, or current interrupted before THERMAL STABILITY without possibility of automatic restoration		<b>N/A</b>
	Test repeated on a second sample when interruption was due to rupture of a heating element or an intentionally weak part		<b>N/A</b>
	Both samples met 13.1.2, and open circuiting of a heating element or an intentionally weak part in second sample not considered a failure by itself		<b>N/A</b>
	b) ME EQUIPMENT with heating elements without adequate heat discharge, and supply voltage set at 90 or 110 % of RATED supply voltage, least favourable of the two (V) .....		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	Operating period stopped when a non-SELF-RESETTING THERMAL CUT-OUT operated, or current interrupted without possibility of automatic restoration before THERMAL STABILITY		N/A
	ME EQUIPMENT switched off as soon as THERMAL STABILITY established and allowed to cool to room temperature when current not interrupted		N/A
	Test duration was equal to RATED operating time for non-CONTINUOUS OPERATION		N/A
	c) Heating parts of ME EQUIPMENT tested with ME EQUIPMENT operated in NORMAL CONDITION at 110 % of RATED supply voltage and as in 11.1, and		N/A
	1) Controls limiting temperature in NORMAL CONDITION disabled, except THERMAL CUT-OUTS		N/A
	2) When more than one control provided, they were disabled in turn		N/A
	3) ME EQUIPMENT operated at RATED DUTY CYCLE until THERMAL STABILITY achieved, regardless of RATED operating time		N/A
<b>13.2.13.3</b>	<b>ME EQUIPMENT with motors</b>		N/A
	a 1) For the motor part of the ME EQUIPMENT, compliance checked by tests of 13.2.8- 13.2.10, 13.2.13.3 b), 13.2.13.3 c), and 13.2.13.4, as applicable	No motors provided in power supply.	N/A
	To determine compliance with 13.2.9 and 13.2.10 motors in circuits running at 42.4 V peak a.c./ 60 V d.c. or less are covered with a single layer of cheesecloth which did not ignite during the test		N/A
	a 2) Tests on ME EQUIPMENT containing heating parts conducted at prescribed voltage with motor & heating parts operated simultaneously to produce the least favourable condition		N/A
	a 3) Tests performed consecutively when more tests were applicable to the same ME EQUIPMENT		N/A
	b) Motor met running overload protection test of this clause when:		N/A
	1) it is intended to be remotely or automatically controlled by a single control device with no redundant protection, or		N/A
	2) it is likely to be subjected to CONTINUOUS OPERATION while unattended		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Motor winding temperature determined during each steady period and maximum value did not exceed Table 27 (Insulation Class, Maximum temperature measured °C).....		N/A
	Motor removed from ME EQUIPMENT and tested separately when load could not be changed in appropriate steps		N/A
	Running overload test for motors operating at 42.4 V peak a.c./60 V d.c. or less performed only when examination and review of design indicated possibility of an overload		N/A
	Test not conducted where electronic drive circuits maintained a substantially constant drive current		N/A
	Test not conducted based on other justifications (justification) .....		N/A
	c) ME EQUIPMENT with 3-phase motors operated with normal load, connected to a 3-phase SUPPLY MAINS with one phase disconnected, and periods of operation per 13.2.10		N/A
<b>13.2.13.4</b>	<b>ME EQUIPMENT RATED for NON-CONTINUOUS OPERATION</b>		<b>N/A</b>
	ME EQUIPMENT (other than HAND-HELD) operated under normal load and at RATED voltage or at upper limit of RATED voltage range until increase in temperature was $\leq 5$ °C in one hour, or a protective device operated	Continuous operation.	N/A
	When a load-reducing device operated in NORMAL USE, test continued with ME EQUIPMENT running idle		N/A
	Motor winding temperatures did not exceed values in 13.2.10.....		N/A
	Insulation Class.....		—
	Maximum temperature measured (°C).....		—
<b>14</b>	<b>PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS)</b>		<b>N/A</b>
14.1	Requirements in 14.2 to 14.12 not applied to PEMS when it provides no functionality necessary for BASIC SAFETY or ESSENTIAL PERFORMANCE, or	No Such Parts/ PESS relied upon for Basic Safety or Essential Performance	N/A
	- when application of RISK MANAGEMENT showed that failure of PESS does not lead to unacceptable RISK.....		N/A
	RISK MANAGEMENT FILE contains an assessment of RISKS associated with the failure of the PESS: (ISO 14971 Cl. 5.2-5.5, 6)		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Requirements of 14.13 not applied to PEMS intended to be incorporated into an IT NETWORK		N/A
	When the requirements of 14.2 to 14.13 apply, the requirements of IEC 62304:2006 and IEC 62304:2006/AMD1:2015 clause 4.3, 5, 7, 8 and 9 apply for the development or modification of software of each PEMS		N/A
	Software development process for Software Classification applied in accordance with Clause 4.3 and 4.4 of IEC 62304:2006 and IEC 62304:2006/AMD1:2015.....:		N/A
	Software development process applied according to Clause 5 of IEC 62304:2006 and IEC 62304:2006/AMD1:2015.....:		N/A
	Software development process for Software risk management applied according to Clause 7 of IEC 62304:2006 and IEC 62304:2006/AMD1:2015.....:		N/A
	Software development process Configuration Management applied according to Clause 8 of IEC 62304:2006 and IEC 62304:2006/AMD1:2015.....:		N/A
	Software development process for Software Problem Resolution applied according to Clause 9 of IEC 62304:2006 and IEC 62304:2006/AMD1:2015.....:		N/A
14.2	Documents required by Clause 14 reviewed, approved, issued and revised according to a formal document control process.....:		N/A
14.3	RISK MANAGEMENT plan required by 4.2.2 includes reference to PEMS VALIDATION plan		N/A
14.4	A PEMS DEVELOPMENT LIFE-CYCLE including a set of defined milestones has been documented		N/A
	At each milestone, activities to be completed, and VERIFICATION methods to be applied to activities have been defined		N/A
	Each activity including its inputs and outputs defined, and each milestone identifies RISK MANAGEMENT activities that must be completed before that milestone		N/A
	PEMS DEVELOPMENT LIFE-CYCLE tailored for a specific development by making plans detailing activities, milestones		N/A
	PEMS DEVELOPMENT LIFE-CYCLE includes documentation requirements		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
14.5	A documented system for problem resolution within and between all phases and activities of PEMS DEVELOPMENT LIFE-CYCLE has been developed and maintained		N/A
<b>14.6</b>	<b>RISK MANAGEMENT PROCESS</b>		<b>N/A</b>
14.6.1	MANUFACTURER considered HAZARDS associated with software and hardware aspects of PEMS including those associated with the incorporating PEMS into an IT-NETWORK, components of third-party origin, legacy subsystems when compiling list of known or foreseeable HAZARDS.....:		N/A
	RISK MANAGEMENT FILE includes known or foreseeable HAZARDS associated with software, hardware, incorporation of the PEMS into an IT-NETWORK, components of 3rd party origin and legacy subsystems.....: (ISO 14971 Cl. 5.3)		N/A
14.6.2	Suitably validated tools and PROCEDURES assuring each RISK CONTROL measure reduces identified RISK(s) satisfactorily provided in addition to PEMS requirements in Clause 4.2.2....:		N/A
	RISK MANAGEMENT FILE documents the suitability of tools and procedures to validate each RISK CONTROL measure.....: (ISO 14971 Cl. 7.1)		N/A
14.7	A documented requirement specification for PEMS and each of its subsystems (e.g. for a PESS) which includes ESSENTIAL PERFORMANCE and RISK CONTROL measures implemented by that system or subsystem.....: (ISO 14971 Cl. 7.2)		N/A
14.8	An architecture satisfying the requirement is specified for PEMS and each of subsystems .....: (ISO 14971 Cl. 7.2)		N/A
14.9	Design is broken up into sub systems and descriptive data on design environment documented.....:		N/A
14.10	A VERIFICATION plan containing the specified information used to verify and document functions implementing BASIC SAFETY, ESSENTIAL PERFORMANCE, or RISK CONTROL measures.....: (ISO 14971 Cl. 7.2)		N/A
	– milestone(s) when VERIFICATION is to be performed for each function		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– selection and documentation of VERIFICATION strategies, activities, techniques, and appropriate level of independence of the personnel performing the VERIFICATION		N/A
	– selection and utilization of VERIFICATION tools		N/A
	– coverage criteria for VERIFICATION		N/A
	The VERIFICATION performed according to the VERIFICATION plan and results of the VERIFICATION activities documented		N/A
14.11	A PEMS VALIDATION plan containing validation of BASIC SAFETY & ESSENTIAL PERFORMANCE .....		N/A
	The PEMS VALIDATION performed according to the PEMS VALIDATION plan with results of PEMS VALIDATION activities and methods used for PEMS VALIDATION documented		N/A
	The person with overall responsibility for PEMS VALIDATION is independent		N/A
	All professional relationships of members of PEMS VALIDATION team with members of design team documented in RISK MANAGEMENT FILE (ISO 14971 Cl. 7.2)		N/A
14.12	Continued validity of previous design documentation assessed under a documented modification/change PROCEDURE		N/A
	Software Classification for Software changes applied in accordance with Clause 4.3 and 4.4 of IEC 62304:2006 and IEC 62304:2006/ AMD1:2015.....:		N/A
	Software Process for Software changes applied according to Clause 5 of IEC 62304:2006 and IEC 62304:2006/ AMD1:2015 .....		N/A
	RISK MANAGEMENT for Software changes applied according to Clause 7 of IEC 62304:2006 and IEC 62304:2006/ AMD1:2015 .....		N/A
	Configuration management of software changes applied per Clause 8 of IEC 62304:2006 and IEC 62304:2006/ AMD1:2015.....:		N/A
	Problem resolution for Software changes applied according to Clause 9 of IEC 62304:2006 and IEC 62304:2006/ AMD1:2015 .....		N/A
14.13	For PEMS incorporated into an IT-NETWORK not VALIDATED by the PEMS MANUFACTURER, instructions made available for implementing the connection include the following.....:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	a) Purpose of the PEMS connection to an IT-NETWORK		N/A
	b) required characteristics of the IT-NETWORK		N/A
	c) required configuration of the IT-NETWORK		N/A
	d) technical specifications of the network connection, including security specifications		N/A
	e) intended information flow between the PEMS, the IT-NETWORK and other devices on the IT-NETWORK, and the intended routing through the IT-NETWORK		N/A
	f) a list of HAZARDOUS SITUATIONS resulting from failure of the IT-NETWORK to provide the required characteristics (ISO 14971 Cl. 5.2-5.5, 6, 7.1, 7.2)		N/A
	<b>ACCOMPANYING DOCUMENTS for the RESPONSIBLE ORGANIZATION include the following:</b>		N/A
	– statement that connection to IT-NETWORKS including other equipment could result in previously unidentified RISKS TO PATIENTS, OPERATORS or third parties		N/A
	– Notification that the RESPONSIBLE ORGANIZATION identify, analyse, evaluate and control these RISKS		N/A
	– Notification that changes to the IT-NETWORK could introduce new RISKS that require additional analysis		N/A
	- Changes to the IT-NETWORK include: - changes in network configuration - connection of additional items - disconnection of items - update of equipment - upgrade of equipment		N/A
<b>15</b>	<b>CONSTRUCTION OF ME EQUIPMENT</b>		<b>P</b>
15.1	RISKS associated with arrangement of controls and indicators of ME EQUIPMENT addressed through the application of a USABILITY ENGINEERING PROCESS.....:	No controls and indicators.	N/A
15.2	Parts of ME EQUIPMENT subject to mechanical wear, electrical, environmental degradation or ageing resulting in unacceptable RISK when unchecked for a long period, are accessible for inspection, replacement, and maintenance	No such parts.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Inspection, servicing, replacement, and adjustment of parts of ME EQUIPMENT can easily be done without damage to or interference with adjacent parts or wiring		<b>N/A</b>
<b>15.3</b>	<b>Mechanical strength</b>		<b>P</b>
15.3.1	Mould stress relief, push, impact, drop, and rough handling tests did not result in loss of BASIC SAFETY or ESSENTIAL PERFORMANCE		<b>P</b>
15.3.2	Push test conducted .....	See Appended Table 15.3	<b>P</b>
	No damage resulting in an unacceptable RISK sustained		<b>P</b>
15.3.3	Impact test conducted.....	See Appended Table 15.3	<b>P</b>
	No damage resulting in an unacceptable RISK sustained		<b>P</b>
<b>15.3.4</b>	<b>Drop test</b>		<b>P</b>
15.3.4.1	Sample of HAND-HELD ME EQUIPMENT, ACCESSORIES and HAND-HELD part with SAFE WORKING LOAD tested .....	No HAND-HELD ME EQUIPMENT.	<b>N/A</b>
	No unacceptable RISK resulted		<b>N/A</b>
15.3.4.2	Sample of PORTABLE ME EQUIPMENT, ACCESSORIES and PORTABLE part with SAFE WORKING LOAD withstood stress as demonstrated by test.....	1 m drop test was chosen.	<b>P</b>
	No damage resulting in an unacceptable RISK sustained	No damage	<b>N/A</b>
15.3.5	MOBILE ME EQUIPMENT and MOBILE part with SAFE WORKING LOAD and in most adverse condition in NORMAL USE passed Rough Handling tests.....	Not mobile ME equipment.	<b>N/A</b>
	No damage resulting in an unacceptable RISK sustained		<b>N/A</b>
15.3.6	Examination of ENCLOSURE made from moulded or formed thermoplastic material indicated that material distortion due to release of internal stresses by moulding or forming operations will not result in an unacceptable RISK		<b>P</b>
	Mould-stress relief test conducted by placing one sample of complete ME EQUIPMENT, ENCLOSURE or a portion of larger ENCLOSURE, for 7 hours in a circulating air oven at 10°C over the max temperature measured on ENCLOSURE in 11.1.3, but no less than 70 °C.....	98.7°C	<b>P</b>
	No damage resulting in an unacceptable RISK		<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
15.3.7	INTENDED USE, EXPECTED SERVICE LIFE, and conditions for transport and storage were taken into consideration for selection and treatment of materials used in construction of ME EQUIPMENT	No such environmental influences.	N/A
	Based on review of EQUIPMENT, ACCOMPANYING DOCUMENTS, specifications and processing of materials, and MANUFACTURER'S relevant tests or calculations, corrosion, ageing, mechanical wear, degradation of biological materials due to bacteria, plants, animals and the like, will not result in an unacceptable RISK		N/A
<b>15.4</b>	<b>ME EQUIPMENT components and general assembly</b>		<b>N/A</b>
15.4.1	Incorrect connection of accessible connectors, removable without a TOOL, prevented where an unacceptable RISK exists,.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	No following connections.	N/A
	a) Plugs for connection of PATIENT leads or PATIENT cables cannot be connected to outlets on same ME EQUIPMENT intended for other functions,.....:		N/A
	b) Medical gas connections on ME EQUIPMENT for different gases to be operated in NORMAL USE are not interchangeable inspection.....:		N/A
<b>15.4.2</b>	<b>Temperature and overload control devices</b>		<b>N/A</b>
15.4.2.1	a) THERMAL CUT-OUTS and OVER-CURRENT RELEASES with automatic resetting not used in ME EQUIPMENT when their use could lead to a HAZARDOUS SITUATION.....: (ISO 14971 Cl. 5.2-5.5, 6)	No such part.	N/A
	b) THERMAL CUT-OUTS with a safety function with reset by a soldering not fitted in ME EQUIPMENT	No such part.	N/A
	c) An additional independent non-SELF-RESETTING THERMAL CUT-OUT is provided.....: (ISO 14971 Cl. 5.2-5.5)	No such part.	N/A
	d) Operation of THERMAL CUT-OUT or OVER CURRENT RELEASE doesn't result in a HAZARDOUS SITUATION or loss of ESSENTIAL PERFORMANCE .....: (ISO 14971 Cl. 5.2-5.5)		N/A
	e) Capacitors or other spark-suppression devices not connected between contacts of THERMAL CUT-OUTS	No such part.	N/A
	f) Use of THERMAL CUT-OUTS or OVER-CURRENT RELEASES do not affect safety as verified by following tests		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- Positive temperature coefficient devices) complied with IEC 60730-1: 2010, Clauses 15, 17, J.15, and J.17		N/A
	- ME EQUIPMENT containing THERMAL CUT-OUTS and OVER-CURRENT RELEASES operated under the conditions of Clause 13.....:		N/A
	- SELF-RESETTING THERMAL CUT-OUTS and OVER-CURRENT RELEASES including circuits performing equivalent functions Certified according to appropriate standards.....:		N/A
	- In the absence of Certification in accordance with IEC standards, SELF-RESETTING THERMAL CUT-OUTS and OVER-CURRENT RELEASES including circuits performing equivalent functions operated 200 times		N/A
	Manual reset THERMAL CUT-OUTS and OVER-CURRENT RELEASES Certified in accordance with appropriate IEC standards		N/A
	manual reset THERMAL CUT-OUTS and OVER-CURRENT RELEASES operated 10 times		N/A
	Thermal protective devices tested separately from ME EQUIPMENT when engineering judgment indicated test results would not be impacted		N/A
	g) Protective device incorporating a fluid filled container with heating means, operated when heater switched on with container empty and prevented an unacceptable RISK due to overheating	No such part.	N/A
	h) ME EQUIPMENT with tubular heating elements provided with protection against overheating.....: (ISO 14971 Cl. 5.2-5.5)	No such part.	N/A
15.4.2.2	Temperature settings clearly indicated when means provided to vary setting of THERMOSTATS		N/A
<b>15.4.3</b>	<b>Batteries</b>		N/A
15.4.3.1	Battery housings provided with ventilation.....: (ISO 14971 Cl. 5.2-5.5)	No batteries.	N/A
	Battery compartments designed to prevent accidental short circuiting		N/A
15.4.3.2	Means provided to prevent incorrect connection of polarity		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with incorrect connection or replacement of batteries.....: (ISO 14971 Cl. 5.2-5.5)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
15.4.3.3	Overcharging of battery prevented by virtue of design.....:		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with overcharging of batteries.....: (ISO 14971 Cl. 5.2-5.5)		N/A
15.4.3.4	Primary lithium batteries comply with IEC 60086-4		N/A
	Secondary lithium batteries comply with IEC 62133 or IEC 62133-2		N/A
15.4.3.5	A properly RATED protective device provided within INTERNAL ELECTRICAL POWER SOURCE to protect against fire.....:		N/A
	Protective device has adequate breaking capacity		N/A
	Justification for OVER-CURRENT RELEASES or FUSE exclusion is documented		N/A
	Short circuit test between the positive and negative poles of an INTERNAL ELECTRICAL POWER SOURCE between the output and protective device(s) omitted where 2 MOOPS provided, or		N/A
	Short circuit between the positive and negative poles of an INTERNAL ELECTRICAL POWER SOURCE between the output and protective device(s) does not result in any HAZARDOUS SITUATION		N/A
15.4.4	Indicator lights provided to indicate ME EQUIPMENT is ready for.....:	No such indicator.	N/A
	An additional indicator light provided on ME EQUIPMENT with a stand-by state or a warm-up state exceeding 15 s,		N/A
	Indicator lights provided on ME EQUIPMENT incorporating non-luminous heaters to indicate heaters are operational		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with the use of indicator lights for EQUIPMENT incorporating non-luminous heaters.....: (ISO 14971 Cl. 5.2-5.5)		N/A
	Requirement not applied to heated stylus-pens for recording purposes		N/A
	Indicator lights provided on ME EQUIPMENT to indicate an output exists		N/A
	Colours of indicator lights complied with 7.8.1		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Charging mode visibly indicated		N/A
15.4.5	RISKS associated with pre-set controls addressed in RISK MANAGEMENT PROCESS.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	No such part in power supply.	N/A
<b>15.4.6</b>	<b>Actuating parts of controls of ME EQUIPMENT</b>		<b>N/A</b>
15.4.6.1	a) Actuating parts cannot be pulled off or loosened during NORMAL USE	No such part in power supply	N/A
	b) Controls secured so that the indication of any scale always corresponds to the position of the control		N/A
	c) Incorrect connection prevented by adequate construction when it could be separated without use of a TOOL		N/A
	When torque values per Table 30 applied knobs did not rotate .....		N/A
	Tests conducted with no unacceptable RISK .....		N/A
15.4.6.2	Stops on rotating/ movable parts of controls are of adequate mechanical strength .....		N/A
	Torque values in Table 30 applied.....		N/A
	No unexpected change of the controlled parameter when tested.....		N/A
<b>15.4.7</b>	<b>Cord-connected HAND-HELD and foot-operated control devices</b>		<b>N/A</b>
15.4.7.1	a) HAND-HELD control devices of ME EQUIPMENT complied with 15.3.4.1	No control devices in power supply.	N/A
	b) Foot-operated control device supported an actuating force of 1350 N in its position of NORMAL USE with no damage.....		N/A
15.4.7.2	Control device of HAND-HELD and foot-operated control devices turned in all possible abnormal positions and placed on a flat surface.....		N/A
	No unacceptable RISK caused by changing control setting when accidentally placed in an abnormal position		N/A
15.4.7.3	a) Foot-operated control device is at least rated IPX1.....		N/A
	b) ENCLOSURE of foot operated control devices containing electrical circuits is at least IPX6.....		N/A
15.4.8	Aluminium wires less than 16 mm <sup>2</sup> in cross-sectional area are not used	No such wire.	N/A
15.4.9	a) Oil container in PORTABLE ME EQUIPMENT allows for expansion of oil and is adequately sealed	No such parts in power supply.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) Oil containers in MOBILE ME EQUIPMENT sealed to prevent loss of oil during transport		N/A
	A pressure-release device operating during NORMAL USE is provided		N/A
	c) Partially sealed oil-filled ME EQUIPMENT and its parts provided with means for checking the oil level to detect leakage		N/A
	ME EQUIPMENT and technical description examined, and manual tests conducted to confirm compliance with above requirements		N/A
<b>15.5</b>	<b>MAINS SUPPLY TRANSFORMERS OF ME EQUIPMENT and transformers providing separation in accordance with 8.5</b>		<b>P</b>
<b>15.5.1</b>	<b>Overheating</b>		<b>P</b>
15.5.1.1	Transformers of ME EQUIPMENT are protected against overheating.....:	See appended Tables 15.5.1.2 and 15.5.1.3	<b>P</b>
	During tests, windings did not open, no HAZARDOUS SITUATION occurred, and maximum temperatures of windings did not exceed values in Table 31		<b>P</b>
	Dielectric strength test conducted after short circuit and overload tests .....	See appended Table 15.5.2	<b>P</b>
15.5.1.2	Transformer output winding short circuited, and test continued until protective device operated or THERMAL STABILITY achieved .....	See appended Table 15.5.1.2	<b>P</b>
	Short circuit applied directly across output windings		N/A
15.5.1.3	Multiple overload tests conducted on windings:	No more than one protective device	N/A
15.5.2	Transformers operating at a frequency above 1kHz tested according to clause 8.8.3.....:	>1kHz	<b>P</b>
	Transformer windings provided with adequate insulation		<b>P</b>
	Dielectric strength tests were conducted .....	See appended Table 15.5.2	<b>P</b>
15.5.3	Transformers forming MEANS OF PROTECTION as required by 8.5 comply with.....:	See appended Table 8.10	<b>P</b>
	- Means provided to prevent displacement of end turns		<b>P</b>
	- protective earth screens with a single turn have insulated overlap		<b>P</b>
	- Exit of wires from internal windings of toroid transformers protected with double sleeving		<b>P</b>
	- insulation between primary and secondary windings complies with 8.8.2		<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	- CREEPAGE DISTANCES and AIR CLEARANCE comply with 8.9.4		<b>P</b>
<b>16</b>	<b>ME SYSTEMS</b>		<b>N/A</b>
16.1	After installation or subsequent modification, ME SYSTEM didn't result in an unacceptable RISK	Component power supply; compliance determined in the end product	<b>N/A</b>
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with installation and modification of an ME SYSTEM.....: (ISO 14971 Cl. 5.2-5.5, 6)		<b>N/A</b>
	Only HAZARDS arising from combining various equipment to form a ME SYSTEM considered		<b>N/A</b>
	– ME SYSTEM provides the level of safety within the PATIENT ENVIRONMENT equivalent to ME EQUIPMENT complying with this standard		<b>N/A</b>
	– ME SYSTEM provides the level of safety outside PATIENT ENVIRONMENT equivalent to equipment complying with their respective IEC or ISO safety standards		<b>N/A</b>
	– tests performed in NORMAL CONDITION, except as specified		<b>N/A</b>
	– tests performed under operating conditions specified by MANUFACTURER of ME SYSTEM		<b>N/A</b>
	Safety tests previously conducted on individual equipment of ME SYSTEM according to relevant standards not repeated		<b>N/A</b>
	RISK MANAGEMENT methods used by MANUFACTURER of an ME SYSTEM reconfigurable by RESPONSIBLE ORGANIZATION or OPERATOR		<b>N/A</b>
	Non-ME EQUIPMENT used in ME SYSTEM complied with applicable IEC or ISO safety standards		<b>N/A</b>
	Equipment relying only on BASIC INSULATION for protection against electric shock not used in ME SYSTEM		<b>N/A</b>
<b>16.2</b>	<b>ACCOMPANYING DOCUMENTS of an ME SYSTEM</b>		<b>N/A</b>
	Documents containing all data necessary for ME SYSTEM to be used as intended by MANUFACTURER including a contact address accompany ME SYSTEM or modified ME SYSTEM		<b>N/A</b>
	ACCOMPANYING DOCUMENTS regarded as a part of ME SYSTEM		<b>N/A</b>
	a) ACCOMPANYING DOCUMENTS provided for each item of ME EQUIPMENT supplied by MANUFACTURER		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
	b) ACCOMPANYING DOCUMENTS provided for each item of non-ME EQUIPMENT supplied by MANUFACTURER		N/A
	c) the required information is provided:		N/A
	– specifications, instructions for use as intended by MANUFACTURER, and a list of all items forming the ME SYSTEM		N/A
	– instructions for installation, assembly, and modification of ME SYSTEM to ensure continued compliance with this standard		N/A
	– instructions for cleaning and, when applicable, disinfecting and sterilizing each item of equipment or equipment part forming part of the ME SYSTEM		N/A
	– additional safety measures to be applied during installation of ME SYSTEM		N/A
	– identification of parts of ME SYSTEM suitable for use within the PATIENT ENVIRONMENT		N/A
	– additional measures to be applied during preventive maintenance		N/A
	– a warning forbidding placement of MULTIPLE SOCKET-OUTLET, when provided and it is a separate item, on the floor		N/A
	– a warning indicating an additional MULTIPLE SOCKET-OUTLET or extension cord not to be connected to ME SYSTEM		N/A
	– a warning to connect only items that have been specified as part of ME SYSTEM or specified as being compatible with ME SYSTEM		N/A
	– maximum permissible load for any MULTIPLE SOCKET-OUTLET(S) used with ME SYSTEM		N/A
	– instructions indicating MULTIPLE SOCKET-OUTLETS provided with the ME SYSTEM to be used only for supplying power to equipment intended to form part of ME SYSTEM		N/A
	– an explanation indicating RISKS of connecting non-ME EQUIPMENT supplied as a part of ME SYSTEM directly to wall outlet when non-ME EQUIPMENT is intended to be supplied via a MULTIPLE SOCKET-OUTLET with a separating transformer		N/A
	– an explanation indicating RISKS of connecting any equipment supplied as a part of ME SYSTEM to MULTIPLE SOCKET-OUTLET		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– permissible environmental conditions of use for ME SYSTEM including conditions for transport and storage		N/A
	– instructions to OPERATOR not to, simultaneously, touch parts referred to in 16.4 and PATIENT		N/A
	d) the following instructions provided for use by RESPONSIBLE ORGANIZATION:		N/A
	– adjustment, cleaning, sterilization, and disinfection PROCEDURES		N/A
	– assembly of ME SYSTEMS and modifications during actual service life evaluated based on the requirements of this standard		N/A
16.3	Instructions for use of ME EQUIPMENT intended to receive its power from other equipment in an ME SYSTEM, describe the other equipment to ensure compliance with these requirements		N/A
	Transient currents restricted to allowable levels for the specified IPS or UPS .....		N/A
	Technical description and installation instructions specify the actual transient currents where an IPS or UPS is not specified		N/A
16.4	Parts of non-ME EQUIPMENT in PATIENT ENVIRONMENT subject to contact by OPERATOR during maintenance, calibration, after removal of covers, connectors operated at a voltage $\leq$ voltage in 8.4.2 c)		N/A
16.5	Safety measures incorporating a SEPARATION DEVICE applied when FUNCTIONAL CONNECTION between ME EQUIPMENT and other items of an ME SYSTEM or other systems can cause allowable values of LEAKAGE CURRENT to exceed		N/A
	SEPARATION DEVICE has dielectric strength, CREEPAGE and CLEARANCES required for one MEANS OF OPERATOR PROTECTION		N/A
	WORKING VOLTAGE was highest voltage across SEPARATION DEVICE during a fault condition, but not less than MAXIMUM MAINS VOLTAGE (V) .....		N/A
<b>16.6</b>	<b>LEAKAGE CURRENTS</b>		N/A
16.6.1	TOUCH CURRENT in NORMAL CONDITION did not exceed 100 $\mu$ A .....		N/A
	TOUCH CURRENT did not exceed 500 $\mu$ A in event of interruption of any non-PERMANENTLY INSTALLED PROTECTIVE EARTH CONDUCTOR .....		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
16.6.2	Current in PROTECTIVE EARTH CONDUCTOR of MULTIPLE SOCKET-OUTLET didn't exceed 5 mA .....		N/A
16.6.3	PATIENT LEAKAGE CURRENT and total PATIENT LEAKAGE CURRENT of ME SYSTEM in NORMAL CONDITION did not exceed values.....		N/A
16.7	ME SYSTEM complied with applicable requirements of Clause 9 .....		N/A
16.8	Interruption and restoration power to the ME SYSTEM or any part of the ME SYSTEM did not result in a loss of BASIC SAFETY or ESSENTIAL PERFORMANCE		N/A
<b>16.9</b>	<b>ME SYSTEM connections and wiring</b>		<b>N/A</b>
16.9.1	Incorrect connection of accessible connectors, removable without a TOOL, prevented where unacceptable RISK can result.....		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with plugs for connection of PATIENT leads or cables likely to be located in the PATIENT ENVIRONMENT..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
	– Plugs for connection of PATIENT leads or PATIENT cables could not be connected to other outlets of the same ME SYSTEM likely to be located in PATIENT ENVIRONMENT, except when examination of connectors and interchanging them proved no unacceptable RISK results		N/A
	Medical gas connections on the ME SYSTEM for different gasses operated in NORMAL USE are not interchangeable		N/A
<b>16.9.2</b>	<b>MAINS PARTS, components and layout</b>		<b>N/A</b>
16.9.2.1	a) – MULTIPLE SOCKET-OUTLET only allows connection using a TOOL, or		N/A
	– MULTIPLE SOCKET-OUTLET is of a type that cannot accept MAINS PLUGS of any of the kinds specified in IEC/TR 60083, or		N/A
	– MULTIPLE SOCKET-OUTLET is supplied via a separating transformer		N/A
	b) – MULTIPLE SOCKET-OUTLET marked with SAFETY SIGN 2 of Table D.2 visible in NORMAL USE, and		N/A
	– marked either individually or in combinations, with the maximum allowed continuous output in amperes or volt-amperes, or		N/A
	– marked to indicate the equipment or equipment parts it may safely be attached to		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– MULTIPLE SOCKET-OUTLET is a separate item or an integral part of ME EQUIPMENT or non-ME EQUIPMENT		N/A
	c) MULTIPLE SOCKET-OUTLET complied with IEC 60884-1 and the following requirements:		N/A
	– CREEPAGE and CLEARANCES complied with 8.9		N/A
	– It is CLASS I, and PROTECTIVE EARTH CONDUCTOR is connected to earthing contacts in socket-outlets		N/A
	– PROTECTIVE EARTH TERMINALS and PROTECTIVE EARTH CONNECTIONS comply with 8.6:		N/A
	– ENCLOSURE complied with 8.4.2 d)		N/A
	– MAINS TERMINAL DEVICES and wiring complied with 8.11.4, when applicable		N/A
	– RATINGS of components are not in conflict with conditions of use .....		N/A
	– Electrical terminals and connectors of MULTIPLE SOCKET-OUTLETS prevent incorrect connection of accessible connectors removable without a TOOL		N/A
	– POWER SUPPLY CORD complied with 8.11.3		N/A
	d) Additional requirements applied when MULTIPLE SOCKET-OUTLET combined with a separating transformer:		N/A
	– Separating transformer complied with this standard or IEC 61558-2-1,.....:		N/A
	– Separating transformer is CLASS I		N/A
	– Degree of protection against ingress of water specified as in IEC 60529		N/A
	– Separating transformer assembly marked according to 7.2 and 7.3		N/A
	– MULTIPLE SOCKET-OUTLET permanently connected to separating transformer, or socket-outlet of separating transformer assembly cannot accept MAINS PLUGS as identified in IEC/TR 60083		N/A
16.9.2.2	The impedance between the protective earth pin in the MAINS PLUG and any part that is PROTECTIVELY EARTHED and protected by only the SUPPLY MAINS circuit over-current release, did not exceed 200 mΩ		N/A
	The impedance of an earth pathway protected by an additional intermediate circuit breaker or fuse rated 13A or lower, did not exceed 400 mΩ		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Removal of any single item of equipment in ME SYSTEM will not interrupt the protective earthing of any other part without simultaneous disconnection of electrical supply to that part		N/A
	Additional PROTECTIVE EARTH CONDUCTORS can be detachable only by use of a TOOL		N/A
16.9.2.3	Conductors connecting different items within an ME SYSTEM protected against mechanical damage		N/A
<b>17</b>	<b>ELECTROMAGNETIC COMPATIBILITY OF ME EQUIPMENT AND ME SYSTEMS</b>		<b>N/A</b>
	RISKS associated confirmed by review.....:	Not applicable to power supply component; to be determined in the end product	N/A
			N/A
	RISK MANAGEMENT FILE includes an assessment of risks associated with the introduction of electromagnetic phenomena into the environment by the EQUIPMENT or SYSTEM.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
			N/A

<b>ANNEX G</b>	<b>PROTECTION AGAINST HAZARDS OF IGNITION OF FLAMMABLE ANESTHETIC MIXTURES</b>		<b>N/A</b>
<b>G.2</b>	<b>Locations and basic requirements</b>		<b>N/A</b>
G.2.1	Parts of CATEGORY APG ME EQUIPMENT in which a FLAMMABLE ANAESTHETIC MIXTURE WITH AIR occurs are CATEGORY AP or APG ME EQUIPMENT and complied with G.3, G.4, and G.5		N/A
G.2.2	FLAMMABLE AESTHETIC MIXTURE WITH		N/A
G.2.3	A FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN or NITROUS OXIDE		N/A
G.2.4	ME EQUIPMENT specified for use with FLAMMABLE AESTHETIC MIXTURE WITH AIR complied with G.4 and G.5		N/A
G.2.5	ME EQUIPMENT or parts thereof for use with FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE comply with G.4 and G.6		N/A
	ME EQUIPMENT in G.2.4 to G.2.5 met appropriate tests of G.3-G.6 conducted after tests of 11.6.6 and 11.6.7		N/A
<b>G.3</b>	<b>Marking, ACCOMPANYING DOCUMENTS</b>		<b>N/A</b>



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Clause	Requirement + Test	Result - Remark	Verdict
G.3.1	CATEGORY APG ME EQUIPMENT prominently marked "APG" (symbol 23 in Table D.1) .....		N/A
	Length of green-coloured band is $\geq 4$ cm, and size of marking is as large as possible for particular case		N/A
	When above marking not possible, relevant information included in instructions for use.....		N/A
	Marking complied with tests and criteria of 7.1.2 and 7.1.3		N/A
G.3.2	CATEGORY AP ME EQUIPMENT prominently marked, with a green-coloured circle "AP" (symbol 22 in Table D.1) .....		N/A
	Marking is as large as possible for the particular case		N/A
	When above marking not possible, the relevant information included in instructions for use.....		N/A
	Marking complied with tests and criteria of 7.1.2 and 7.1.3		N/A
G.3.3	The marking placed on major part of ME EQUIPMENT for CATEGORY AP or APG parts		N/A
G.3.4	ACCOMPANYING DOCUMENTS contain an indication enabling the RESPONSIBLE ORGANIZATION to distinguish between CATEGORY AP and APG parts		N/A
G.3.5	Marking clearly indicates which parts are CATEGORY AP or APG when only certain ME EQUIPMENT parts are CATEGORY AP or APG		N/A
<b>G.4</b>	<b>Common requirements for CATEGORY AP and CATEGORY APG ME EQUIPMENT</b>		<b>N/A</b>
G.4.1	a) CREEPAGE and CLEARANCES are according to Table 12 for one MEANS OF PATIENT PROTECTION		N/A
	b) Connections protected against accidental disconnection		N/A
	c) CATEGORY AP and APG not provided with a DETACHABLE POWER SUPPLY CORD,		N/A
<b>G.4.2</b>	<b>Construction details</b>		
	a) Opening of an ENCLOSURE protecting against penetration of gases or vapours into ME EQUIPMENT or its parts possible only with a TOOL		N/A
	b) ENCLOSURE complies with.....		N/A
	– no openings on top covers of ENCLOSURE,		N/A
	– openings in side-covers prevented penetration of a solid cylindrical test rod		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– openings in base plates prevented penetration of a solid cylindrical test		N/A
	c) Short circuiting conductor(s) to a conductive part (when no explosive gasses) did not result in loss of integrity of the part, an unacceptable temperature, or any HAZARDOUS SITUATION		N/A
G.4.3	a) Electrostatic charges prevented on CATEGORY AP and APG ME EQUIPMENT by a combination of appropriate measures		N/A
	– Use of antistatic materials with a limited electrical resistance.....:		N/A
	– Provision of electrically conductive paths from ME EQUIPMENT or its parts to a conductive floor, protective earth or potential equalization system, or via wheels to an antistatic floor		N/A
	b) Electrical resistance limits of aesthetic tubing, mattresses/ pads, castor tires & other antistatic material comply with ISO 2882 .....		N/A
G.4.4	Corona cannot be produced by components or parts of ME EQUIPMENT operating at more than 2000 V a.c. or 2400 V d.c. and not included in ENCLOSURES complying with G.5.4 or G.5.5		N/A
<b>G.5</b>	<b>Requirements and tests for CATEGORY AP ME EQUIPMENT, parts and components</b>		N/A
G.5.1	ME EQUIPMENT, its parts or components do not ignite FLAMMABLE AESTHETIC MIXTURES WITH AIR under NORMAL USE and CONDITIONS based on compliance with G.5.2 to G.5.5		N/A
	Alternatively, ME EQUIPMENT, its parts, and components complied with requirements of IEC 60079-0 for pressurized ENCLOSURES (IEC 60079-2); for sand-filled ENCLOSURES, IEC 60079-5; or for oil immersed equipment, IEC 60079-6; and with this standard excluding G.5.2 to G.5.5.....:		N/A
G.5.2	Temperature limits .....		N/A
G.5.3	ME EQUIPMENT, its parts, and components producing sparks in NORMAL USE and CONDITION complied with temperature requirements of G.5.2, and $U_{max}$ and $I_{max}$ occurring in their circuits, and complied as follows:		N/A
	Measured $U_{max} \leq U_{zR}$ with $I_{zR}$ as in Fig. G.1 .....		N/A
	Measured $U_{max} \leq U_c$ with $C_{max}$ as in Fig. G.2 .....		N/A
	Measured $I_{max} \leq I_{zR}$ with $U_{zR}$ as in Fig G.1 .....		N/A
	Measured $I_{max} \leq I_{zL}$ with $L_{max}$ and a $U_{max} \leq 24$ V as in Fig G.3.....:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– Combinations of currents and corresponding voltages within the limitations $I_z R \cdot U_z R \leq 50 \text{ W}$ extrapolated from Fig G.1		N/A
	No extrapolation made for voltages above 42 V		N/A
	– Combinations of capacitances and corresponding voltages within limitations of $C/2U^2 \leq 1.2 \text{ mJ}$ extrapolated from Fig G.2		N/A
	No extrapolation made for voltages above 242V		N/A
	$U_{\max}$ determined using actual resistance R		N/A
	– Combinations of currents and corresponding inductances within limitations $L/2I^2 \leq 0.3 \text{ mJ}$ extrapolated from Fig G.3		N/A
	No extrapolation made for inductances larger than 900 mH		N/A
	– $U_{\max}$ was the highest supply voltage occurring in circuit under investigation with sparking contact open		N/A
	– $I_{\max}$ was the highest current flowing in circuit under investigation with sparking contact closed		N/A
	– $C_{\max}$ and $L_{\max}$ taken as values occurring at the component under investigation producing sparks		N/A
	– Peak value considered when a.c. supplied		N/A
	– An equivalent circuit calculated to determine equivalent max capacitance, inductance, and equivalent $U_{\max}$ and $I_{\max}$ , either as d.c. or a.c. peak values in case of a complicated circuit..... :		N/A
	Temperature measurements made according to 11.1, and $U_{\max}$ , $I_{\max}$ , R, $L_{\max}$ , and $C_{\max}$ determined with application of Figs G.1-G.3..... :		N/A
	Alternatively, compliance was verified by examination of design data ..... :		N/A
<b>G.5.4</b>	<b>External ventilation with internal overpressure</b>		N/A
	ME EQUIPMENT, its parts, and components enclosed in an ENCLOSURE with external ventilation by means of internal overpressure complied with the following requirements:		N/A
	a) FLAMMABLE AESTHETIC MIXTURES WITH AIR t removed by ventilation before EQUIPMENT energized,		N/A
	b) Overpressure inside ENCLOSURE was 75 Pa, min., in NORMAL CONDITION (Pa)..... :		N/A
	Overpressure maintained at the site of potential ignition		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	ME EQUIPMENT could be energized only after the required minimum overpressure was present long enough to ventilate the ENCLOSURE		N/A
	ME EQUIPMENT energized at will or repeatedly when overpressure was continuously present		N/A
	c) Ignition sources de-energized automatically when during operation overpressure dropped below 50 Pa (Pa)..... :		N/A
	d) External surface of ENCLOSURE did not exceed 150 °C in 25 °C ..... :		N/A
<b>G.5.5</b>	<b>ENCLOSURES with restricted breathing</b>		N/A
	ME EQUIPMENT, its parts, and components enclosed in an ENCLOSURE with restricted breathing complied with the following:		N/A
	a) A FLAMMABLE AESTHETIC MIXTURE WITH AIR did not form inside ENCLOSURE with restricted breathing		N/A
	b) Gasket or sealing material used to maintain tightness complied with aging test B-b of IEC 60068-2-2, Clause 15, at 70 °C ± 2 °C and 96 h ... :		N/A
	c) Gas-tightness of ENCLOSURE containing inlets for flexible cords maintained		N/A
	Cords are fitted with adequate anchorages to limit stresses as determined by test		N/A
	Overpressure not reduced below 200 Pa		N/A
	Tests waived when examination of ENCLOSURE indicated it is completely sealed or gas-tight without a doubt (100 % degree of certainty)		N/A
	Operating temperature of external surface of ENCLOSURE was ≤ 150 °C in 25 °C (°C)..... :		N/A
	Steady state operating temperature of ENCLOSURE also measured (°C) ..... :		N/A
<b>G.6</b>	<b>CATEGORY APG ME EQUIPMENT, parts and components thereof</b>		N/A
<b>G.6.1</b>	ME EQUIPMENT, its parts, and components did not ignite FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE under NORMAL USE and SINGLE FAULT CONDITION		N/A
	ME EQUIPMENT, its parts, and components not complying with G.6.3 subjected to a CONTINUOUS OPERATION test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.6.2	Parts and components of CATEGORY APG ME EQUIPMENT operating in a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE supplied from a source isolated from earth by insulation equal to one MEANS OF PATIENT PROTECTION and from electrical parts by insulation twice the MEANS OF PATIENT PROTECTION .....		N/A
G.6.3	Test of G.6.1 waived when the following requirements were met in NORMAL USE and under NORMAL and SINGLE FAULT CONDITIONS .....		N/A
	a) no sparks produced and temperatures did not exceed 90 °C, or		N/A
	b) a temperature limit of 90 °C not exceeded, sparks produced in NORMAL USE, and SINGLE FAULT CONDITIONS, except $U_{max}$ and $I_{max}$ occurring in their circuits complied with requirements, taking $C_{max}$ and $L_{max}$ into consideration:		N/A
	Measured $U_{max} \leq U_{zR}$ with $I_{zR}$ as in Fig. G.4 .....		N/A
	Measured $U_{max} \leq U_{zC}$ with $C_{max}$ as in Fig. G.5 .....		N/A
	Measured $I_{max} \leq I_{zR}$ with $U_{zR}$ as in Fig G.4 .....		N/A
	Measured $I_{max} \leq I_{zL}$ with $L_{max}$ and a $U_{max} \leq 24$ V as in Fig G.6 .....		N/A
	– Extrapolation from Figs G.4, G.5, and G.6 was limited to areas indicated		N/A
	– $U_{max}$ was the highest no-load voltage occurring in the circuit under investigation, taking into consideration mains voltage variations as in Cl. 4.10		N/A
	– $I_{max}$ was the highest current flowing in the circuit under investigation, considering MAINS VOLTAGE variations as in Cl. 4.10		N/A
	– $C_{max}$ and $L_{max}$ are values occurring in relevant circuit		N/A
	– $U_{max}$ additionally determined with actual resistance R when equivalent resistance R in Fig G.5 was less than 8000 $\Omega$		N/A
	– Peak value considered when a.c. supplied		N/A
	– An equivalent circuit calculated to determine max capacitance, inductance, and $U_{max}$ and $I_{max}$ , either as d.c. or a.c. peak values in case of a complicated circuit .....		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– When energy produced in an inductance or capacitance in a circuit is limited by voltage or current-limiting devices, two independent components applied, to obtain the required limitation even when a first fault (short or open circuit) in one of these components		N/A
	- requirement not applied to transformers complying with this standard		N/A
	- requirement not applied to wire-wound current-limiting resistors provided with a protection against unwinding of the wire in case of rupture		N/A
	Compliance verified by examination of CATEGORY APG ME EQUIPMENT, parts, and components , or		N/A
	Temperature measurements made in accordance with 11.1 .....		N/A
	- or $U_{max}$ , $I_{max}$ , $R$ , $L_{max}$ and $C_{max}$ determined together with application of Figs G.4-G.6 .....		N/A
	Alternatively, compliance verified by comparison with design data .....		N/A
G.6.4	ME EQUIPMENT, its parts, and components heating a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE provided with a non-SELF-RESETTING THERMAL CUT-OUT and complied with 15.4.2.1 ..... :		N/A
	Current-carrying part of heating element is not in direct contact with FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE		N/A
G.7	Test apparatus for flammable mixtures according to this Clause and Fig G.7		N/A

ANNEX L	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
L.1	BASIC, SUPPLEMENTARY, DOUBLE, and REINFORCED INSULATION in wound components without interleaved insulation complied with this Annex	Approved TIW is used in mains transformer.	N/A
L.2	Wire construction		N/A
	Overlap of layers when wire is insulated with two or more spirally wrapped layers of tape is adequate to ensure continued overlap during manufacture of wound component	Approved TIW is used in mains transformer.	N/A
	Layers of spirally wrapped wire insulation are sufficiently secured to maintain the overlap		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
<b>L.3</b>	<b>Type Test</b>		<b>N/A</b>
	The wire subjected to tests of L.3.1 to L.3.4 at a temperature and a relative humidity specified	Approved TIW is used in mains transformer.	<b>N/A</b>
	Temperature (°C) .....		—
	Humidity (%).....		—
<b>L.3.1</b>	<b>Dielectric strength</b>		<b>N/A</b>
	Dielectric strength test of Clause 8.8.3 for the appropriate type and number of MOP(s) conducted with no breakdown:	Approved TIW is used in mains transformer.	<b>N/A</b>
	– 3000 V for BASIC and SUPPLEMENTARY INSULATION (V) .....		<b>N/A</b>
	– 6000 V for REINFORCED INSULATION (V).....		<b>N/A</b>
<b>L.3.2</b>	<b>Flexibility and adherence</b>		<b>N/A</b>
	Sample subjected to flexibility and adherence	Approved TIW is used in mains transformer.	<b>N/A</b>
	Sample examined per IEC 60851-3: 1997, cl. 5.1.1.4, followed by dielectric test of cl. 8.8.3, with no breakdown		<b>N/A</b>
	Test voltage was at least the voltage in Tables 6 and 7 but not less than the following:		<b>N/A</b>
	– 1500 V for BASIC and SUPPLEMENTARY INSULATION (V) .....		<b>N/A</b>
	– 3000 V for REINFORCED INSULATION (V) .....		<b>N/A</b>
	Tension applied to wire during winding on mandrel calculated from the wire diameter equivalent to 118 MPa ± 11.8 MPa .....		<b>N/A</b>
<b>L.3.3</b>	<b>Heat Shock</b>		<b>N/A</b>
	Sample subjected to heat shock test 9 of IEC 60851-6:1996, followed by dielectric strength test of clause 8.8.3	Approved TIW is used in mains transformer.	<b>N/A</b>
	Test voltage was at least the voltage in Tables 6 and 7, but not less than the following:		<b>N/A</b>
	– 1500 V for BASIC and SUPPLEMENTARY INSULATION (V) .....		<b>N/A</b>
	– 3000 V for REINFORCED INSULATION (V) .....		<b>N/A</b>
	Oven temperature based on Table L.2 (°C).....		—
	Mandrel diameter and tension applied as in clause L.3.2, (MPa; N/mm <sup>2</sup> ) .....		<b>N/A</b>
	Dielectric strength test conducted at room temperature after removal from the oven		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
<b>L.3.4</b>	<b>Retention of electric strength after bending</b>		<b>N/A</b>
	Five samples prepared as in L.3.2 subjected to dielectric strength and bending tests	Approved TIW is used in mains transformer.	<b>N/A</b>
	Test voltage was at least the voltage in Tables 6 and 7, but not less than the following:		<b>N/A</b>
	– 1500 V for BASIC and SUPPLEMENTARY INSULATION (V) .....		<b>N/A</b>
	– 3000 V for REINFORCED INSULATION (V) .....		<b>N/A</b>
	Test voltage applied between the shot and conductor		<b>N/A</b>
	Mandrel diameter and tension applied as in L.3.2, (MPa; N/mm <sup>2</sup> ).....		<b>N/A</b>
<b>L.4</b>	<b>Tests during manufacture</b>		<b>N/A</b>
L.4.1	Production line dielectric strength tests done by the manufacture per L.4.2 and L.4.3.....	Approved TIW is used in mains transformer.	<b>N/A</b>
L.4.2	Test voltage for routine testing (100 % testing) is at least the voltage in Tables 6 and 7 but not less than the following:	Approved TIW is used in mains transformer.	<b>N/A</b>
	– 1500 V r.m.s. or 2100 V peak for BASIC and SUPPLEMENTARY INSULATION (V) .....		<b>N/A</b>
	– 3000 V r.m.s. or 4200 V peak for REINFORCED INSULATION (V) .....		<b>N/A</b>
L.4.3	Sampling tests conducted using twisted pair samples (IEC 60851-5:1996, clause 4.4.1) .....	Approved TIW is used in mains transformer.	<b>N/A</b>
	Minimum breakdown test voltage at least twice the voltage in Tables 6 and 7 but not less than:		<b>N/A</b>
	– 3000 V r.m.s. or 4200 V peak for BASIC and SUPPLEMENTARY INSULATION.....		<b>N/A</b>
	– 6000 V r.m.s. or 8400 V peak for REINFORCED INSULATION .....		<b>N/A</b>



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Clause	Requirement + Test	Result - Remark	Verdict

<b>4.2.2</b>	<b>RM RESULTS TABLE: General requirements for RISK MANAGEMENT</b>		<b>P</b>
Clause of ISO 14971	Document Ref. in RMF (Document No. paragraph/clause, version)		Verdict
	General process	Particular Medical Device	
<b>4.1</b>	Risk management procedure GTQPR05000 A2 5.0	—	<b>P</b>
<b>4.2</b>	Risk management procedure GTQPR05000 A2 5.0	—	<b>P</b>
<b>4.2</b>	Risk management procedure GTQPR05000 A2 5.0	—	<b>P</b>
<b>4.2</b>	Risk management procedure GTQPR05000 A2 5.0	—	<b>P</b>
<b>4.3</b>	—	Risk Management Report 2.0	<b>P</b>
<b>4.4a</b>	—	Risk management plan GT-RMPLAN2013-010	<b>P</b>
<b>4.4b</b>	—	Risk management plan GT-RMPLAN2013-010	<b>P</b>
<b>4.4c</b>	—	Risk management plan GT-RMPLAN2013-010	<b>P</b>
<b>4.4d</b>	—	Risk management plan GT-RMPLAN2013-010	<b>P</b>
<b>4.4e</b>	—	Risk management plan GT-RMPLAN2013-010	<b>P</b>
<b>4.4f</b>	—	Risk management plan GT-RMPLAN2013-010	<b>P</b>
<b>4.5</b>	—	Risk management procedure GTQPR05000 A2 6.0	<b>P</b>

IEC 60601-1				
Clause	Requirement + Test		Result - Remark	Verdict
<b>4.2.2</b>	<b>RM RESULTS TABLE: General requirements for RISK MANAGEMENT</b>			<b>P</b>
Clause of ISO 14971	Document Ref. in RMF (Document No. paragraph/clause, version)		Result - Remarks	Verdict
	General process	Particular Medical Device		
<b>5.1</b>	—	Risk management procedure GTQPR05000 A2 6.0	Risk Analysis - Process	<b>P</b>
<b>5.2</b>	—	Risk Management Report GT-RM2013-010 6.1	Risk Analysis - Intended use and reasonably foreseeable misuse	<b>P</b>
<b>5.3</b>	—	Risk Management Report GT-RM2013-010 6.1	Risk Analysis - Identification of characteristics related to safety	<b>P</b>
<b>5.4</b>	—	Risk Management Report GT-RM2013-010 6.2	Risk Analysis - Identification of hazards and hazardous situations	<b>P</b>
<b>5.5</b>	—	Risk Management Report GT-RM2013-010 6.4	Risk Analysis - Risk estimation	<b>P</b>
<b>6</b>	—	Risk Management Report GT-RM2013-010 7	Risk Evaluation	<b>P</b>
<b>7.1</b>	—	Risk Management Report GT-RM2013-010 8.1	Risk Control - Risk control option analysis	<b>P</b>
<b>7.2</b>	—	Risk Management Report GT-RM2013-010 8.1	Risk Control - Implementation of risk control measures	<b>P</b>
<b>7.3</b>	—	Risk Management Report GT-RM2013-010 8.2	Risk Control - Residual risk evaluation	<b>P</b>
<b>7.4</b>	—	Risk Management Report GT-RM2013-010 8.3	Risk Control - Benefit-risk analysis	<b>P</b>
<b>7.5a</b>	—	Risk Management Report GT-RM2013-010 8.1	Risk Control - Risks arising from risk control measures (new hazards or hazardous situations introduced)	<b>N/A</b>
<b>7.5b</b>	—	Risk Management Report GT-RM2013-010 8.2	Risk Control - Risks arising from risk control measures (estimated risks for previously identified hazardous situations affected)	<b>N/A</b>
<b>7.6</b>	—	Risk Management Report GT-RM2013-010 8.1	Risk Control - Completeness of risk control	<b>P</b>
<b>8</b>	—	Risk Management Report GT-RM2013-010 10	Evaluation of overall residual risk	<b>P</b>

IEC 60601-1				
Clause	Requirement + Test		Result - Remark	Verdict
<b>4.2.2</b>	<b>RM RESULTS TABLE: General requirements for RISK MANAGEMENT</b>			<b>P</b>
Clause of ISO 14971	Document Ref. in RMF (Document No. paragraph/clause, version)		Result - Remarks	Verdict
	General process	Particular Medical Device		
<b>9</b>	—	GT-RM2013-010 A2	Risk management review	<b>P</b>
<b>Supplementary Information:</b> Document Ref should be with regards to the policy/procedure documents and documents containing Risk Management Process -specific output.				

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.3	TABLE: ESSENTIAL PERFORMANCE		N/A
List of ESSENTIAL PERFORMANCE functions	MANUFACTURER’S document number reference or reference from this standard or collateral or particular standard(s)	Remarks	
<b>Supplementary Information:</b> ESSENTIAL PERFORMANCE is performance, the absence or degradation of which, would result in an unacceptable risk.			

<b>4.11</b>	<b>TABLE: Power Input</b>					<b>P</b>
Operating Conditions / Ratings		Voltage (V)	Frequency (Hz)	Current (A)	Power (W or VA)	Power factor (cos $\phi$ )
Model: GTM96600-4005-R2						
Normal condition		90	50/60	0.8797	47.40	<0.9
Normal condition		100	50/60	0.7861	46.90	<0.9
Normal condition		240	50/60	0.3748	46.02	<0.9
Normal condition		264	50/60	0.3423	46.11	<0.9
Model: GTM96600-6054-R2						
Normal condition		90	50/60	1.2242	66.37	<0.9
Normal condition		100	50/60	1.0845	65.86	<0.9
Normal condition		240	50/60	0.5177	64.69	<0.9
Normal condition		264	50/60	0.4711	65.48	<0.9
Model: GTM91099-6015-3.0-T2						
Normal condition		90	50/60	1.2709	68.78	<0.9
Normal condition		100	50/60	1.1126	67.53	<0.9
Normal condition		240	50/60	0.5257	66.42	<0.9

IEC 60601-1						
Clause	Requirement + Test			Result - Remark	Verdict	
4.11	TABLE: Power Input				P	
Operating Conditions / Ratings		Voltage (V)	Frequency (Hz)	Current (A)	Power (W or VA)	Power factor (cos ϕ)
Normal condition		264	50/60	0.4759	66.48	<0.9
Model: GTM91099-6048-12.0-T2						
Normal condition		90	50/60	1.2492	67.62	<0.9
Normal condition		100	50/60	1.1037	66.90	<0.9
Normal condition		240	50/60	0.5228	65.92	<0.9
Normal condition		264	50/60	0.4758	66.18	<0.9
Model: GTM91099-6048-T2						
Normal condition		90	50/60	1.2333	67.11	<0.9
Normal condition		100	50/60	1.0818	66.58	<0.9
Normal condition		240	50/60	0.5194	65.69	<0.9
Normal condition		264	50/60	0.4719	65.85	<0.9
Model: GT-96600-7056-T3-AP						
Normal condition		90	50/60	1.285	78.30	<0.9
Normal condition		100	50/60	1.138	77.37	<0.9
Normal condition		240	50/60	0.543	75.68	<0.9
Normal condition		264	50/60	0.496	76.00	<0.9
GTM96600-3005-R3A-CF						
Normal condition		90	50/60	0.622	35.0	<0.9
Normal condition		100	50/60	0.567	34.9	<0.9
Normal condition		240	50/60	0.285	34.7	<0.9
Normal condition		264	50/60	0.267	35.1	<0.9
Tested on model GTM96600-4005-T2 (5V, 40W)						
Maximum normal condition		90	50	0.804	46.82	0.647
Maximum normal condition		90	60	0.781	46.81	0.666

IEC 60601-1						
Clause	Requirement + Test			Result - Remark	Verdict	
4.11	TABLE: Power Input				P	
Operating Conditions / Ratings		Voltage (V)	Frequency (Hz)	Current (A)	Power (W or VA)	Power factor (cos φ)
Maximum normal condition		100	50	0.730	46.57	0.638
Maximum normal condition		100	60	0.711	46.36	0.652
Maximum normal condition		240	50	0.355	45.75	0.537
Maximum normal condition		240	60	0.348	45.69	0.547
Maximum normal condition		264	50	0.331	45.79	0.524
Maximum normal condition		264	60	0.325	45.82	0.534
Tested on model GTM96600-6019-T2 (19V, 60W)						
Maximum normal condition		90	50	1.142	67.63	0.658
Maximum normal condition		90	60	1.101	67.58	0.682
Maximum normal condition		100	50	1.032	67.60	0.655
Maximum normal condition		100	60	1.000	67.40	0.674
Maximum normal condition		240	50	0.496	66.54	0.559
Maximum normal condition		240	60	0.485	66.58	0.572
Maximum normal condition		264	50	0.461	66.69	0.548
Normal condition		264	60	0.451	66.44	0.558
Tested on model GTM96600-6554-T3A (54V, 65W)						
Maximum normal condition		90	50	1.196	70.83	0.658
Maximum normal condition		90	60	1.147	70.82	0.686
Maximum normal condition		100	50	1.077	70.22	0.652
Maximum normal condition		100	60	1.041	70.16	0.674
Maximum normal condition		240	50	0.517	69.36	0.559
Maximum normal condition		240	60	0.504	69.19	0.572
Maximum normal condition		264	50	0.480	69.44	0.548
Maximum normal condition		264	60	0.470	69.48	0.560

IEC 60601-1						
Clause	Requirement + Test			Result - Remark		Verdict
4.11	TABLE: Power Input					P
Operating Conditions / Ratings		Voltage (V)	Frequency (Hz)	Current (A)	Power (W or VA)	Power factor (cos ϕ)
Supplementary Information:						

5.9.2	TABLE: Determination of ACCESSIBLE parts		P
Location		Determination method (NOTE1)	Comments
Enclosure		Test finger, test hook	Can't insert
Supplementary information:			
1) NOTE: The determination methods are: visual; rigid test finger; jointed test finger; test hook.			

7.1.2	TABLE: Legibility of Marking		P
Markings tested		Ambient Illuminance (lx)	Remarks
Outside Markings (Clause 7.2).....:		100-1500	Readable
Inside Markings (Clause 7.3).....:		--	N/A
Controls & Instruments (Clause 7.4).....:		--	N/A
SAFETY SIGNS (Clause 7.5).....:		--	N/A
Symbols (Clause 7.6).....:		--	N/A
Supplementary information:			
Observer, with a visual acuity of 0 on the log Minimum Angle of Resolution (log MAR) scale or 6/6 (20/20) and is able to read N6 of the Jaeger test card in normal room lighting condition (~500lx), reads marking at ambient illuminance least favourable level in the range of 100 lx to 1,500 lx. The ME EQUIPMENT or its part was positioned so that the viewpoint was the intended position of the OPERATOR or if not defined at any point within the base of a cone subtended by an angle of 30° to the axis normal to the centre of the plane of the marking and at a distance of 1 m.			

7.1.3	TABLE: Durability of marking test			P
Characteristics of the Marking Label tested:			Remarks	
Material of Marking Label .....	Polyester paint		P	
Ink/other printing material or process .....	Laser print		P	
Material (composition) of Warning Label .....	--		N/A	
Ink/other printing material or process .....	--		N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
7.1.3	TABLE: Durability of marking test		P
Characteristics of the Marking Label tested:			Remarks
Other ..... :		--	N/A
Marking Label Tested:			Remarks
first for 15 s with a cloth rag soaked with distilled water			P
15 s with a cloth rag soaked with ethanol 96%			P
15 s with a cloth rag soaked with isopropyl alcohol.			P
Supplementary information:			
Marking rubbed by hand, first for 15 s with a cloth rag soaked with distilled water, then for 15 s with a cloth rag soaked with ethanol 96%, and then for 15 s with a cloth rag soaked with isopropyl alcohol.			

8.4.2	TABLE: TABLE: Working Voltage / Power Measurement					P
Test supply voltage/frequency (V/Hz) <sup>1)</sup> ..... :						
Location From/To	Measured values					Remarks
	Vrms	Vpk or Vdc	Peak-to-peak ripple <sup>2)</sup>	Power W/VA	Energy (J)	
Transformer, primary to secondary	Max. 240Vrms	--	--	--	--	For all models
Optocoupler primary to secondary	Max. 240Vrms	--	--	--	--	For all models
Y capacitor primary to secondary	Max. 240Vrms	--	--	--	--	For all models
Secondary output connector	--	<60Vdc	<10%	--	--	For all models
Supplementary Information:						
<sup>1)</sup> The input supply voltage to the ME EQUIPMENT was the RATED voltage or the voltage within the RATED voltage range which results in the highest measured value. See clause 8.5.4.						
<sup>2)</sup> If the d.c peak-to-peak ripple >10%, waveform considered as a.c. See clause 8.4.2						
<sup>3)</sup> Voltage measurement of all conductive ACCESSIBLE PARTS of the SIP/SOP connection or separate power supply output connections to earth used a resistor of 10 k $\Omega$ + 500 $\Omega$ . See clause 8.4.2						



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Clause	Requirement + Test					Result - Remark			Verdict		
8.4.3	TABLE: ME EQUIPMENT for connection to a power source by a plug - measurement of voltage or calculation of stored charge 1 s after disconnection of plug from mains supply									P	
Maximum allowable voltage (V).....:									60		
Voltage measured (V)											
Voltage Measured Between:	1	2	3	4	5	6	7	8	9	10	
Plug pins 1 and 2	5	5	6	5	5	5	6	5	6	6	
Plug pin 1 and plug earth pin	--	--	--	--	--	--	--	--	--	--	
Plug pin 2 and plug earth pin	--	--	--	--	--	--	--	--	--	--	
Plug pin 1 and enclosure	--	--	--	--	--	--	--	--	--	--	
Plug pin 2 and enclosure	--	--	--	--	--	--	--	--	--	--	
Maximum allowable stored charge when measured voltage exceeded 60 v (µc).....:									45		
Calculated stored charge (µc)											
Voltage Measured Between:	1	2	3	4	5	6	7	8	9	10	
Plug pins 1 and 2	--	--	--	--	--	--	--	--	--	--	
Plug pin 1 and plug earth pin	--	--	--	--	--	--	--	--	--	--	
Plug pin 2 and plug earth pin	--	--	--	--	--	--	--	--	--	--	
Plug pin 1 and enclosure	--	--	--	--	--	--	--	--	--	--	
Plug pin 2 and enclosure	--	--	--	--	--	--	--	--	--	--	
Supplementary information: CX1: 0.47UF R10: 100K R11: 47K for GTM96600 series.											

8.4.4	TABLE: Internal capacitive circuits – measurement of residual voltage or calculation of the stored charge in capacitive circuits (i.e., accessible capacitors or circuit parts) after de-energizing ME EQUIPMENT			N/A
Maximum allowable residual voltage (V)..... :				60 V
Maximum allowable stored charge when residual voltage exceeded 60 V ..... :				45 μC
Description of the capacitive circuit (i.e., accessible capacitor or circuit parts)	Measured residual voltage (V)	Calculated stored charge (μC)	Remarks	
Supplementary information:				

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Clause	Requirement + Test	Result - Remark	Verdict

**TABLE 8.5.4: Working Voltage Measurement**

Location From/ To (Insulation Diagram Designation)	Measured Voltage (Vrms)	Measured Voltage (Vpk)	Measured Peak-to- peak ripple (V)	Required Clearance (mm)	Required Creepage (mm)	Measured Clearance (mm)	Measured Creepage (mm)	Remarks
<b>Tested on model GTM96600-4005-T2</b>								
T1 Pin 1 to Pin 12	245	496	--	--	--	--	--	--
T1 Pin 1 to Pin 7, A	261	492	--	--	--	--	--	--
T1 Pin 1 to Pin B	263	512	--	--	--	--	--	Max Vrms & Vpk
T1 Pin 3 to Pin 12	226	460	--	--	--	--	--	--
T1 Pin 3 to Pin 7, A	223	388	--	--	--	--	--	--
T1 Pin 3 to Pin B	222	360	--	--	--	--	--	--
T1 Pin 4 to Pin 12	181	380	--	--	--	--	--	--
T1 Pin 4 to Pin 7, A	77	356	--	--	--	--	--	--
T1 Pin 4 to Pin B	177	352	--	--	--	--	--	--
T1 Pin 5 to Pin 12	176	352	--	--	--	--	--	--
T1 Pin 5 to Pin 7, A	177	404	--	--	--	--	--	--
T1 Pin 5 to Pin B	180	432	--	--	--	--	--	--
U4 Pin 1 to 3	188	360	--	--	--	--	--	--
U4 Pin 1 to 4	186	358	--	--	--	--	--	--
U4 Pin 2 to 3	188	361	--	--	--	--	--	--
U4 Pin 2 to 4	190	362	--	--	--	--	--	--
CY1 primary pin- CY2	176	352	--	--	--	--	--	--

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Clause	Requirement + Test				Result - Remark			Verdict
secondary pin								
<b>Tested on model GTM96600-6019-T3</b>								
T1 Pin 1 to Pin A	282	548	--	--	--	--	--	--
T1 Pin 1 to Pin B	302	568	--	--	--	--	--	Max Vrms & Vpk
T1 Pin 3 to Pin A	220	404	--	--	--	--	--	--
T1 Pin 3 to Pin B	218	356	--	--	--	--	--	--
T1 Pin 4 to Pin A	181	372	--	--	--	--	--	--
T1 Pin 4 to Pin B	178	352	--	--	--	--	--	--
T1 Pin 5 to Pin A	180	354	--	--	--	--	--	--
T1 Pin 5 to Pin B	180	400	--	--	--	--	--	--
U4 Pin 1 to 3	190	368	--	--	--	--	--	--
U4 Pin 1 to 4	192	370	--	--	--	--	--	--
U4 Pin 2 to 3	188	366	--	--	--	--	--	--
U4 Pin 2 to 4	190	368	--	--	--	--	--	--
CY1 primary pin- CY2 secondary pin	178	352	--	--	--	--	--	--
<b>Tested on model GTM96600-6554-T3A</b>								
T1 Pin 1 to Pin A	259	504	--	--	--	--	--	--
T1 Pin 1 to Pin B	307	570	--	--	--	--	--	Max Vrms & Vpk
T1 Pin 3 to Pin A	234	488	--	--	--	--	--	--
T1 Pin 3 to Pin B	219	356	--	--	--	--	--	--
T1 Pin 4 to Pin	200	412	--	--	--	--	--	--

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Clause	Requirement + Test				Result - Remark			Verdict
A								
T1 Pin 4 to Pin B	185	356	--	--	--	--	--	--
T1 Pin 5 to Pin A	192	388	--	--	--	--	--	--
T1 Pin 5 to Pin B	188	400	--	--	--	--	--	--
U4 Pin 1 to 3	201	380	--	--	--	--	--	--
U4 Pin 1 to 4	200	378	--	--	--	--	--	--
U4 Pin 2 to 3	202	382	--	--	--	--	--	--
U4 Pin 2 to 4	199	379	--	--	--	--	--	--
CY1 primary pin– CY2 secondary pin	186	352	--	--	--	--	--	--
Supplementary Information: Note: Vrms measurements for non-DC voltages Peak to Peak ripple measurement was conducted only on DC voltage Energy measurement made when Power exceeded 240 VA for longer than 60 s								

8.5.5.1a	TABLE: defibrillation-proof applied parts – measurement of hazardous electrical energies					N/A
Test Condition: Figs. 9 & 10	Measurement made on accessible part	Applied part with test voltage	Test voltage polarity	Measured voltage between Y1 and Y2 (mV)	Remarks	
Supplementary information:						

8.5.5.1b	TABLE: defibrillation-proof applied parts – verification of recovery time				N/A
Applied part with test voltage	Test voltage polarity	Recovery time from documents (s)	Measured recovery time (s)	Remarks	
Supplementary information:					

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Clause	Requirement + Test	Result - Remark	Verdict

8.5.5.2	<b>TABLE: DEFIBRILLATION-PROOF APPLIED PARTS or PATIENT CONNECTIONS of DEFIBRILLATION-PROOF APPLIED PARTS - Energy reduction test –measurement of Energy delivered to a 100 <math>\Omega</math> load</b>			<b>N/A</b>
Test Voltage applied to		Measured Energy E1 (mJ)	Measured Energy E2 (mJ)	Energy E1 as % of E2 (%)
PATIENT CONNECTION 1 or APPLIED PART with PATIENT CONNECTIONS 2, 3, and 4 of the same APPLIED PART connected to earth				
PATIENT CONNECTION 2 or APPLIED PART with PATIENT CONNECTIONS 1, 3, and 4 of the same APPLIED PART connected to earth				
PATIENT CONNECTION 3 or APPLIED PART with PATIENT CONNECTIONS 1, 2, and 4 of the same APPLIED PART connected to earth				
PATIENT CONNECTION 4 or APPLIED PART with PATIENT CONNECTIONS 1, 2, and 3 of the same APPLIED PART connected to earth				
<b>Supplementary information:</b> For compliance: E1 must at least 90% of E2 E1= Measured energy delivered to 100 $\Omega$ with ME Equipment connected; E2= Measured energy delivered to 100 $\Omega$ without ME equipment connected.				

8.6.4	<b>TABLE: Impedance and current-carrying capability of PROTECTIVE EARTH CONNECTIONS</b>				<b>P</b>
Type of ME EQUIPMENT & impedance measured between parts		Test current (A) /Duration (s)	Voltage drop measured between parts (V)	Maximum calculated impedance (m $\Omega$ )	Maximum allowable impedance (m $\Omega$ )
PERMANENTLY INSTALLED ME EQUIPMENT, impedance between PROTECTIVE EARTH TERMINAL and a PROTECTIVELY EARTHED part		--	--	--	100
ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part		25A/ 10s 40A/ 60s	0.2 0.8	13 20	100
ME EQUIPMENT with a non-DETACHABLE POWER SUPPLY CORD, impedance between the protective earth pin in the MAINS PLUG and a PROTECTIVELY EARTHED part		--	--	--	200
<b>Additional test</b>					
Permanently installed me equipment, impedance between protective earth terminal and a protectively earthed part		--	--	--	100

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Clause	Requirement + Test	Result - Remark		Verdict
Me equipment with an appliance inlet, impedance between earth pin in the appliance inlet and a protectively earthed part (Location CY2 secondary pin)	25A/ 10s	0.420	16.8	100
Me equipment with an appliance inlet, impedance between earth pin in the appliance inlet and a protectively earthed part (Location CY2 secondary pin)	40A/ 60s	0.688	17.2	100
Me equipment with a non-detachable power supply cord, impedance between the protective earth pin in the mains plug and a protectively earthed part	--	--	--	200
<b>Supplementary information:</b> PERMANENTLY INSTALLED ME EQUIPMENT, impedance between PROTECTIVE EARTH TERMINAL and a PROTECTIVELY EARTHED part - Limit 100 mΩ ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part - Limit 100 mΩ ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the protective earth pin on the DETACHABLE POWER SUPPLY CORD and a PROTECTIVELY EARTHED part - Limit 200 mΩ ME EQUIPMENT with a non-DETACHABLE POWER SUPPLY CORD, impedance between the protective earth pin in the MAINS PLUG and a PROTECTIVELY EARTHED part - Limit 200 mΩ				

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Clause	Requirement + Test		Result - Remark	Verdict
8.7	TABLE: leakage current			P
Type of leakage current and test condition (including single faults)	Supply voltage (V)	Supply frequency (Hz)	Measured max. value (μA)	Remarks
GT*96600-***-**, GT*96600-*56***, GTM96600-6019-T* series:				
Fig. 13 - Earth Leakage (ER)	—	—	—	Maximum allowed values: 5 mA NC; 10 mA SFC
A,NC, S1=1, S5=0	264	60	86 μA AC	For Class I model, with frequency-weighted device
A,NC, S1=1, S5=1	264	60	86 μA AC	
A,SFC, S1=0, S5=0	264	60	103 μA AC	
B, SFC, S1=0, S5=1	264	60	112 μA AC	
A,NC, S1=1, S5=0	264	60	207μA AC	For Class I model, with non-frequency-weighted device
A,NC, S1=1, S5=1	264	60	207μA AC	
A,SFC, S1=0, S5=0	264	60	238μA AC	
B, SFC, S1=0, S5=1	264	60	206μA AC	
Fig. 14 - Touch Current (TC)	—	—	—	Maximum allowed values: 100 μA NC; 500 μA SFC
A,NC, S1=1, S5=1, S7=1	264	60	<10μA AC	With frequency-weighted device
A,NC, S1=1, S5=0, S7=1	264	60	<10μA AC	
A,SFC, S1=0, S5=1, S7=1	264	60	<10μA AC	
A,SFC, S1=0, S5=0, S7=1	264	60	<10μA AC	
A,SFC, S1=1, S5=1, S7=0	264	60	<10μA AC	
A,SFC, S1=1, S5=0, S7=0	264	60	<10μA AC	
A,NC, S1=1, S5=1, S7=1	264	60	65.3μA AC	With non-frequency-weighted device
A,NC, S1=1, S5=0, S7=1	264	60	66.1μA AC	
A,SFC, S1=0, S5=1, S7=1	264	60	93.3μA AC	
A,SFC, S1=0, S5=0, S7=1	264	60	93.5μA AC	
A,SFC, S1=1, S5=1, S7=0	264	60	112.0μA AC	
A,SFC, S1=1, S5=0, S7=0	264	60	111.6μA AC	
The GT*91099-***-** series except GT*91099-***T*:				
Fig. 13 - Earth Leakage (ER)	—	—	—	Maximum allowed values: 5 mA NC; 10 mA SFC
B, NC, S1=1, S5=0	264	60	56.2	limit: 5mA
B, NC, S1=1, S5=1	264	60	54.1	limit: 5mA
B, SFC, S1=0, S5=0	264	60	94.6	limit: 10mA

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Clause	Requirement + Test		Result - Remark		Verdict
B, SFC, S1=0, S5=1	264	60	94.1	limit: 10mA	
A, NC, S1=1, S5=0	264	60	57.6	limit: 5mA	
A, NC, S1=1, S5=1	264	60	55.5	limit: 5mA	
A, SFC, S1=0, S5=0	264	60	96.1	limit: 10mA	
A, SFC, S1=0, S5=1	264	60	95.6	limit: 10mA	
Fig. 14 - Touch Current (TC)	—	—	—	Maximum allowed values: 100 μA NC; 500 μA SFC	
MD was connected between Neutral and output(worse case in V+ and V-) for class I					
B, NC, S1=1, S5=1, S7=1	264	60	52.6 μA AC 0.01 μA DC	Limit: 100μA AC 10μA DC	
B, NC, S1=1, S5=0, S7=1	264	60	51.0 μA AC 0.01 μA DC	Limit: 100μA AC 10μA DC	
B, SFC, S1=0, S5=1, S7=1	264	60	85.6 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC	
B, SFC, S1=0, S5=0, S7=1	264	60	81.0 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC	
B, SFC, S1=1, S5=1, S7=0	264	60	56.2 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC	
B, SFC, S1=1, S5=0, S7=0	264	60	54.1 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC	
A, NC, S1=1, S5=1, S7=1	264	60	54.1 μA AC 0.01 μA DC	Limit: 100μA AC 10μA DC	
A, NC, S1=1, S5=0, S7=1	264	60	52.5 μA AC 0.01 μA DC	Limit: 100μA AC 10μA DC	
A, SFC, S1=0, S5=1, S7=1	264	60	87.0 μA AC 0.02 μA DC	Limit: 500μA AC 50μA DC	
A, SFC, S1=0, S5=0, S7=1	264	60	82.4 μA AC 0.02 μA DC	Limit: 500μA AC 50μA DC	
A, SFC, S1=1, S5=0, S7=0	264	60	57.6 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC	
A, SFC, S1=1, S5=1, S7=0	264	60	55.4 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC	
MD was connected between Neutral and output(worse case in V+ and V-) for class II					
B, NC, S1=1, S5=1	264	60	45.3 μA AC 0.01 μA DC	Limit: 100μA AC 10μA DC	
B, NC, S1=1, S5=0	264	60	40.0 μA AC 0.01 μA DC	Limit: 100μA AC 10μA DC	
B, SFC, S1=0, S5=1	264	60	66.6 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC	



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Clause	Requirement + Test		Result - Remark	
B, SFC, S1=0, S5=0	264	60	61.0 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, NC, S1=1, S5=1	264	60	46.4 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 100 $\mu$ A AC 10 $\mu$ A DC
A, NC, S1=1, S5=0	264	60	41.4 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 100 $\mu$ A AC 10 $\mu$ A DC
A, SFC, S1=0, S5=1	264	60	68.1 $\mu$ A AC 0.02 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, SFC, S1=0, S5=0	264	60	62.3 $\mu$ A AC 0.02 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
<b>GT*91099-***-T*:</b>				
Fig. 13 - Earth Leakage (ER)	—	—	—	Maximum allowed values: 5 mA NC; 10 mA SFC
B, NC, S1=1, S5=0	264	60	56.2	limit: 5mA
B, NC, S1=1, S5=1	264	60	54.1	limit: 5mA
B, SFC, S1=0, S5=0	264	60	94.6	limit: 10mA
B, SFC, S1=0, S5=1	264	60	94.1	limit: 10mA
A, NC, S1=1, S5=0	264	60	56.2	limit: 5mA
A, NC, S1=1, S5=1	264	60	54.1	limit: 5mA
A, SFC, S1=0, S5=0	264	60	94.6	limit: 10mA
A, SFC, S1=0, S5=1	264	60	94.1	limit: 10mA
Fig. 14 - Touch Current (TC)	—	—	—	Maximum allowed values: 100 $\mu$ A NC; 500 $\mu$ A SFC
For Class II, MD was connected between Neutral and plastic enclosure For Class I, MD was connected between Neutral/GND and plastic enclosure				
B, NC, S1=1, S5=1, S7=1	264	60	4.0	Limit: 100 $\mu$ A
B, NC, S1=1, S5=0, S7=1	264	60	3.9	Limit: 100 $\mu$ A
B, SFC, S1=0, S5=1, S7=1	264	60	6.4	Limit: 500 $\mu$ A
B, SFC, S1=0, S5=0, S7=1	264	60	6.4	Limit: 500 $\mu$ A
B, SFC, S1=1, S5=1, S7=0	264	60	6.4	Limit: 500 $\mu$ A
B, SFC, S1=1, S5=0, S7=0	264	60	6.4	Limit: 500 $\mu$ A
A, NC, S1=1, S5=1, S7=1	264	60	4.0	Limit: 100 $\mu$ A
A, NC, S1=1, S5=0, S7=1	264	60	3.9	Limit: 100 $\mu$ A
A, SFC, S1=0, S5=1, S7=1	264	60	6.4	Limit: 500 $\mu$ A
A, SFC, S1=0, S5=0, S7=1	264	60	6.4	Limit: 500 $\mu$ A
A, SFC, S1=1, S5=0, S7=0	264	60	6.4	Limit: 500 $\mu$ A
A, SFC, S1=1, S5=1, S7=0	264	60	6.4	Limit: 500 $\mu$ A

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Clause	Requirement + Test		Result - Remark	
Fig. 15 - Patient Leakage Current (P)	—	—	—	Maximum allowed values: Type B or BF AP: 10 uA NC; 50 uA SFC (d.c.current); 100 uA NC; 500 uA SFC (a.c.) Type CF AP: 10 uA NC; 50 uA SFC (d.c. or a.c. current)
MD was connected between Neutral/GND and output connector for class I				
B, NC, S1=1, S5=1, S7=1	264	60	52.6 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 100 $\mu$ A AC 10 $\mu$ A DC
B, NC, S1=1, S5=0, S7=1	264	60	51.0 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 100 $\mu$ A AC 10 $\mu$ A DC
B, SFC, S1=0, S5=1, S7=1	264	60	85.6 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
B, SFC, S1=0, S5=0, S7=1	264	60	81.0 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
B, SFC, S1=1, S5=1, S7=0	264	60	52.6 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
B, SFC, S1=1, S5=0, S7=0	264	60	51.0 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
B, NC, S1=1, S5=1, S7=1, CY1 short circuit	264	60	96.7 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
B, NC, S1=1, S5=0, S7=1, CY1 short circuit	264	60	103 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
B, NC, S1=1, S5=1, S7=1, CY2 short circuit	264	60	96.6 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
B, NC, S1=1, S5=0, S7=1, CY2 short circuit	264	60	102.2 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, NC, S1=1, S5=1, S7=1	264	60	52.6 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, NC, S1=1, S5=0, S7=1	264	60	51.0 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, SFC, S1=0, S5=1, S7=1	264	60	85.6 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, SFC, S1=0, S5=0, S7=1	264	60	81.0 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, SFC, S1=1, S5=0, S7=0	264	60	52.6 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, SFC, S1=1, S5=1, S7=0	264	60	51.0 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, NC, S1=1, S5=1, S7=1, CY1 short	264	60	96.7 $\mu$ A AC	Limit: 500 $\mu$ A AC

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Clause	Requirement + Test		Result - Remark	Verdict
circuit			0.01 μA DC	50μA DC
A, NC, S1=1, S5=0, S7=1, CY1 short circuit	264	60	103 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
A, NC, S1=1, S5=1, S7=1, CY2 short circuit	264	60	96.6 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
A, NC, S1=1, S5=0, S7=1, CY2 short circuit	264	60	102.2 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
MD was connected between Neutral and output connector for class II				
B, NC, S1=1, S5=1, S7=1	264	60	45.3 μA AC 0.01 μA DC	Limit: 100μA AC 10μA DC
B, NC, S1=1, S5=0, S7=1	264	60	40.0 μA AC 0.01 μA DC	Limit: 100μA AC 10μA DC
B, SFC, S1=0, S5=1, S7=1	264	60	66.6 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
B, SFC, S1=0, S5=0, S7=1	264	60	61.0μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
B, SFC, S1=1, S5=1, S7=0	264	60	43.5 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
B, SFC, S1=1, S5=0, S7=0	264	60	43.0 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
B, NC, S1=1, S5=1, S7=1, CY1 short circuit	264	60	93.9 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
B, NC, S1=1, S5=0, S7=1, CY1 short circuit	264	60	92.3 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
B, NC, S1=1, S5=1, S7=1, CY2 short circuit	264	60	91.1 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
B, NC, S1=1, S5=0, S7=1, CY2 short circuit	264	60	89.7 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
A, NC, S1=1, S5=1, S7=1	264	60	45.3 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
A, NC, S1=1, S5=0, S7=1	264	60	40.0 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
A, SFC, S1=0, S5=1, S7=1	264	60	66.6 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
A, SFC, S1=0, S5=0, S7=1	264	60	61.0 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
A, SFC, S1=1, S5=0, S7=0	264	60	43.5 μA AC 0.01 μA DC	Limit: 500μA AC 50μA DC
A, SFC, S1=1, S5=1, S7=0	264	60	43.0 μA AC	Limit: 500μA AC

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Clause	Requirement + Test		Result - Remark	Verdict
			0.01 $\mu$ A DC	50 $\mu$ A DC
A, NC, S1=1, S5=1, S7=1, CY1 short circuit	264	60	93.9 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, NC, S1=1, S5=0, S7=1, CY1 short circuit	264	60	92.3 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, NC, S1=1, S5=1, S7=1, CY2 short circuit	264	60	91.1 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
A, NC, S1=1, S5=0, S7=1, CY2 short circuit	264	60	89.7 $\mu$ A AC 0.01 $\mu$ A DC	Limit: 500 $\mu$ A AC 50 $\mu$ A DC
<b>GT*96600--*-CF:</b>				
Fig. 13 - Earth Leakage (ER)	—	—	—	Maximum allowed values: 5 mA NC; 10 mA SFC
A,NC, S1=1, S5=0	264	60	5.35 $\mu$ A	For Class I model, with frequency-weighted device
A,NC, S1=1, S5=1	264	60	5.96 $\mu$ A	
A,SFC, S1=0, S5=0	264	60	7.18 $\mu$ A	
B, SFC, S1=0, S5=1	264	60	6.85 $\mu$ A	
A,NC, S1=1, S5=0	264	60	29.05 $\mu$ A	For Class I model, with non- frequency-weighted device
A,NC, S1=1, S5=1	264	60	28.93 $\mu$ A	
A,SFC, S1=0, S5=0	264	60	33.56 $\mu$ A	
B, SFC, S1=0, S5=1	264	60	32.59 $\mu$ A	
Fig. 14 - Touch Current (TC)	—	—	—	Maximum allowed values: 100 $\mu$ A NC; 500 $\mu$ A SFC
A,NC, S1=1, S5=1, S7=1	264	60	6.91 $\mu$ A	With frequency-weighted device
A,NC, S1=1, S5=0, S7=1	264	60	6.29 $\mu$ A	
A,SFC, S1=0, S5=1, S7=1	264	60	9.22 $\mu$ A	
A,SFC, S1=0, S5=0, S7=1	264	60	9.67 $\mu$ A	
A,SFC, S1=1, S5=1, S7=0	264	60	6.41 $\mu$ A	
A,SFC, S1=1, S5=0, S7=0	264	60	6.56 $\mu$ A	
A,NC, S1=1, S5=1, S7=1	264	60	31.44 $\mu$ A	With non-frequency-weighted device
A,NC, S1=1, S5=0, S7=1	264	60	30.85 $\mu$ A	
A,SFC, S1=0, S5=1, S7=1	264	60	36.18 $\mu$ A	
A,SFC, S1=0, S5=0, S7=1	264	60	36.10 $\mu$ A	
A,SFC, S1=1, S5=1, S7=0	264	60	30.84 $\mu$ A	
A,SFC, S1=1, S5=0, S7=0	264	60	31.09 $\mu$ A	
<b>Supplementary information:</b>				
Note 1: For EARTH LEAKAGE CURRENT see 8.7.3 d) and 8.7.4.5;				
Note 2: For TOUCH CURRENT see 8.7.3 c) and 8.7.4.6;				

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Clause	Requirement + Test	Result - Remark	Verdict
<p>Note 3: For PATIENT LEAKAGE CURRENT SEE 8.7.3.b) and 8.7.4.7</p> <p>Note 4: Total PATIENT LEAKAGE CURRENT values are only relative to equipment with multiple APPLIED PARTS of the same type. See 8.7.4.7 h). The individual APPLIED PARTS complied with the PATIENT LEAKAGE CURRENT values.</p> <p>Note 5: In addition to conditions indicated in the Table, tests conducted at operating temperature and after humidity preconditioning of 5.7, EQUIPMENT energized in stand-by condition and fully operating, max rated supply frequency, at 110 % of the max RATED MAINS VOLTAGE, and after relevant tests of Clause 11.6 (i.e., overflow, spillage, leakage, ingress of water and particulate matter, cleaning &amp; disinfection, &amp; sterilization).</p> <p>A: after humidity preconditioning treatment .B: before humidity preconditioning treatment</p>			
ER - Earth leakage current TC – Touch current P - Patient leakage current PA – Patient auxiliary current TP – Total Patient current PM - Patient leakage current with mains on the applied parts MD - Measuring device		A - After humidity conditioning B - Before humidity conditioning 1 - Switch closed or set to normal polarity 0 - Switch open or set to reversed polarity NC - Normal condition SFC - Single fault condition	

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Clause	Requirement + Test	Result - Remark	Verdict

**TABLE 8.7: Leakage Current for GTM96600-6019-T3 with CY1 & CY2: 2200pF**

Type of Leakage Current and Test Condition (Including Single Faults)	Supply Voltage (V)	Supply Frequency (Hz)	Measured Max. Value (μA)	Remarks
<b>Figure 13, Earth Leakage</b>	<b>(V)</b>	<b>(Hz)</b>	<b>Before/After Humidity (μA)</b>	
N/A				
<b>Figure 14, Touch (Leakage) Current</b>	<b>(V)</b>	<b>(Hz)</b>	<b>Before/After Humidity (μA)</b>	
TC, NC, S1 = 1, S5 = N, S10 = 1	264	60	8.2/ 8.5	With frequency-weighted device (MD between Outputs to earth)
TC, NC, S1 = 1, S5 = R, S10 = 1	264	60	8.3/ 8.6	
TC, NC, S1 = 1, S5 = N, S10 = 0	264	60	64.6/ 66.1	
TC, NC, S1 = 1, S5 = R, S10 = 0	264	60	64.7/ 66.3	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 1	264	60	8.7/ 9.8	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 1	264	60	8.8/ 9.8	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 0	264	60	101.6/ 103.5	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 0	264	60	101.6/ 103.8	
<b>Figure 14, Touch (Leakage) Current</b>	<b>(V)</b>	<b>(Hz)</b>	<b>Before/After Humidity (μA)</b>	
TC, NC, S1 = 1, S5 = N, S10 = 1	264	60	67.0/ 69.8	With Non-frequency-weighted device (MD between Outputs to earth)
TC, NC, S1 = 1, S5 = R, S10 = 1	264	60	67.3/ 70.1	
TC, NC, S1 = 1, S5 = N, S10 = 0	264	60	103.1/ 106.5	
TC, NC, S1 = 1, S5 = R, S10 = 0	264	60	103.2/ 106.5	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 1	264	60	69.5/ 14.5	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 1	264	60	69.5/ 14.6	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 0	264	60	167.8/ 171.2	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 0	264	60	168.0/ 171.5	
<b>Figure 14, Touch (Leakage) Current</b>	<b>(V)</b>	<b>(Hz)</b>	<b>After SFC (fuse opened conditions ) (μA)</b>	
TC, NC, S1 = 1, S5 = N, S10 = 1	264	60	0	With frequency-weighted device (MD between Outputs to earth)
TC, NC, S1 = 1, S5 = R, S10 = 1	264	60	0	

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Clause	Requirement + Test	Result - Remark		Verdict
TABLE 8.7: Leakage Current for GTM96600-6019-T3 with CY1 & CY2: 2200pF				
Type of Leakage Current and Test Condition (Including Single Faults)	Supply Voltage (V)	Supply Frequency (Hz)	Measured Max. Value (μA)	Remarks
TC, NC, S1 = 1, S5 = N, S10 = 0	264	60	0	
TC, NC, S1 = 1, S5 = R, S10 = 0	264	60	0	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 1	264	60	0	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 1	264	60	0	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 0	264	60	0	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 0	264	60	0	
Figure 14, Touch (Leakage) Current	(V)	(Hz)	After SFC (fused opened conditions ) (μA)	
TC, NC, S1 = 1, S5 = N, S10 = 1	264	60	0	With Non-frequency-weighted device (MD between Outputs to earth)
TC, NC, S1 = 1, S5 = R, S10 = 1	264	60	0	
TC, NC, S1 = 1, S5 = N, S10 = 0	264	60	0	
TC, NC, S1 = 1, S5 = R, S10 = 0	264	60	0	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 1	264	60	0	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 1	264	60	0	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 0	264	60	0	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 0	264	60	0	
Figure 14, Touch (Leakage) Current	(V)	(Hz)	After SFC (Unit shut down ) (μA)	
TC, NC, S1 = 1, S5 = N, S10 = 1	264	60	8.2	With frequency-weighted device (MD between Outputs to earth)
TC, NC, S1 = 1, S5 = R, S10 = 1	264	60	8.3	
TC, NC, S1 = 1, S5 = N, S10 = 0	264	60	64.6	
TC, NC, S1 = 1, S5 = R, S10 = 0	264	60	64.7	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 1	264	60	8.7	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 1	264	60	8.8	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 0	264	60	101.6	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 0	264	60	101.6	
Figure 14, Touch (Leakage) Current	(V)	(Hz)	After SFC (Unit shut down ) (μA)	

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Clause	Requirement + Test	Result - Remark		Verdict
TABLE 8.7: Leakage Current for GTM96600-6019-T3 with CY1 & CY2: 2200pF				
Type of Leakage Current and Test Condition (Including Single Faults)	Supply Voltage (V)	Supply Frequency (Hz)	Measured Max. Value (μA)	Remarks
TC, NC, S1 = 1, S5 = N, S10 = 1	264	60	67.2	With Non-frequency-weighted device (MD between Outputs to earth)
TC, NC, S1 = 1, S5 = R, S10 = 1	264	60	67.3	
TC, NC, S1 = 1, S5 = N, S10 = 0	264	60	103.2	
TC, NC, S1 = 1, S5 = R, S10 = 0	264	60	103.2	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 1	264	60	69.5	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 1	264	60	69.7	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 0	264	60	167.9	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 0	264	60	168.0	
Figure 14, Touch (Leakage) Current	(V)	(Hz)	After SFC (Short output “+” to “-”) (μA)	
TC, NC, S1 = 1, S5 = N, S10 = 1	264	60	8.3	With Non-frequency-weighted device (MD between Outputs to earth)
TC, NC, S1 = 1, S5 = R, S10 = 1	264	60	8.4	
TC, NC, S1 = 1, S5 = N, S10 = 0	264	60	64.7	
TC, NC, S1 = 1, S5 = R, S10 = 0	264	60	64.7	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 1	264	60	8.8	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 1	264	60	8.9	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 0	264	60	101.8	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 0	264	60	101.8	
Figure 14, Touch (Leakage) Current	(V)	(Hz)	After SFC (Short output “+” to “-”) (μA)	
TC, NC, S1 = 1, S5 = N, S10 = 1	264	60	67.2	With frequency-weighted device (MD between Outputs to earth)
TC, NC, S1 = 1, S5 = R, S10 = 1	264	60	67.3	
TC, NC, S1 = 1, S5 = N, S10 = 0	264	60	103.2	
TC, NC, S1 = 1, S5 = R, S10 = 0	264	60	103.2	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 1	264	60	69.5	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 1	264	60	69.7	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 0	264	60	167.9	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 0	264	60	168.0	



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Clause	Requirement + Test	Result - Remark		Verdict
TABLE 8.7: Leakage Current for GTM96600-6019-T3 with CY1 & CY2: 2200pF				
Type of Leakage Current and Test Condition (Including Single Faults)	Supply Voltage (V)	Supply Frequency (Hz)	Measured Max. Value (μA)	Remarks
Figure 14, Touch (Leakage) Current	(V)	(Hz)	After transformer overload (μA)	
TC, NC, S1 = 1, S5 = N, S10 = 1	264	60	9.3	With frequency-weighted device (MD between Outputs to earth)
TC, NC, S1 = 1, S5 = R, S10 = 1	264	60	9.3	
TC, NC, S1 = 1, S5 = N, S10 = 0	264	60	65.4	
TC, NC, S1 = 1, S5 = R, S10 = 0	264	60	65.5	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 1	264	60	11.2	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 1	264	60	11.3	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 0	264	60	109.4	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 0	264	60	109.5	
Figure 14, Touch (Leakage) Current	(V)	(Hz)	After transformer overload (μA)	
TC, NC, S1 = 1, S5 = N, S10 = 1	264	60	67.4	With Non-frequency-weighted device (MD between Outputs to earth)
TC, NC, S1 = 1, S5 = R, S10 = 1	264	60	67.7	
TC, NC, S1 = 1, S5 = N, S10 = 0	264	60	106.5	
TC, NC, S1 = 1, S5 = R, S10 = 0	264	60	106.7	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 1	264	60	70.2	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 1	264	60	70.3	
TC, SFC (Neutral Open), S1 = 0, S5 = N, S10 = 0	264	60	175.4	
TC, SFC (Neutral Open), S1 = 0, S5 = R, S10 = 0	264	60	175.4	
Abbreviations used:				
ER - Earth leakage current		A - After humidity conditioning		
TC - Touch (leakage) current		B - Before humidity conditioning		
P - Patient leakage current		1 - Switch closed or set to normal polarity		
PM - Patient leakage current with mains on the applied parts		0 - Switch open or set to reversed polarity		
PSM - Patient leakage current with mains on SIP/SOPS		NC - Normal condition		
PA - Patient auxiliary current		SFC - Single fault condition		
TPL – Touch Patient Leakage Current		AA - After Abnormal		
IP - Internally powered leakage current		S1 - Mains neutral conductor		
MD - Measuring device		S5 - Mains polarity		
		S7 - Protective Earth Conductor		

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Clause	Requirement + Test	Result - Remark	Verdict

**TABLE 8.7: Leakage Current for GTM96600-6019-T3 with CY1 & CY2: 2200pF**

Type of Leakage Current and Test Condition (Including Single Faults)	Supply Voltage (V)	Supply Frequency (Hz)	Measured Max. Value (μA)	Remarks
Fig. 12 - Refers to Fig. 12 in IEC 60601-1 (8.7.3)		S9 - Mains on patient polarity S12 - Grounded patient leads		

8.8.3	TABLE: Dielectric strength test of solid insulating materials with safety function – means of operator protection (MOOP) / means of patient protection (MOPP)					P
Insulation under test (area from insulation diagram)	Insulation Type (1 or 2 MOOP/MOPP)	Reference Voltage		A.C. test voltages in V r.m.s <sup>1)</sup>	Dielectric breakdown after 1 minute Yes/No <sup>2)</sup>	
		PEAK WORKING VOLTAGE (U) V <sub>peak</sub>	PEAK WORKING VOLTAGE (U) V d.c.			
Tested on model GTM96600-4005-T2						
Unit: Line to Neutral (before fuse)	1MOPP	340	--	1500	No	
Unit: Primary circuits to plastic enclosure	2MOPP	340	--	4000	No	
Unit: Primary circuit s to output circuits	2MOPP	512	--	4448	No	
Transformer T1: Primary coil to secondary coil	2MOPP	512	--	4448	No	
Transformer T1: Core to secondary coil	2MOPP	512	--	4448	No	
Transformer T1: One layer of insulation tape	2MOPP	512	--	4448	No	
Secondary HS2 to photo coupler U4 Primary pin	2MOPP	512	--	4448	No	
Tape used on of Primary Heatsink HS1	1MOPP	340	--	1500	No	
Mylar sheet between PCB and enclosure	1MOPP	340	--	1500	No	
PCB	1MOPP	340	--	1500	No	
Tested on model GTM96600-6019-T3 class II with function earth						
Unit: Line to Neutral (before fuse)	1MOPP	340	--	1500	No	
Unit:Primary to FE Primary circuit to plastic enclosure	1MOPP	340	--	1500	No	

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Clause	Requirement + Test		Result - Remark		Verdict
Unit: Secondary to FE Secondary circuit to output circuit	1MOPP	340	--	1500	No
Transformer T1: Primary coil to secondary coil	2MOPP	568	--	4607	No
Transformer T1: Core to secondary coil	2MOPP	568	--	4607	No
Transformer T1: One layer of insulation tape	2MOPP	568	--	4607	No
Secondary HS2 to photo coupler U4 Primary pin	2MOPP	568	--	4607	No
PCB	1MOPP	340	--	1500	No
Tested on model GTM96600-6554-T3A					
Unit: Line to Neutral (before fuse)	1MOPP	340	--	1500	No
Unit: Line & Neutral to Earth (for Class I)	1MOPP	340	--	1500	No
Unit: Primary circuit to plastic enclosure	2MOPP	340	--	4000	No
Unit: Primary circuit to output circuit	2MOPP	570	--	4612	No
Transformer T1: Primary coil to secondary coil	2MOPP	570	--	4612	No
Transformer T1: Core to secondary coil	2MOPP	570	--	4612	No
Transformer T1: One layer of insulation tape	2MOPP	570	--	4612	No
Secondary HS2 to photo coupler U4 Primary pin	2MOPP	570	--	4612	No
Tape used on of Primary Heatsink HS1	1MOPP	340	--	1500	No
Mylar sheet between PCB and enclosure	1MOPP	340	--	1500	No
PCB	1MOPP	340	--	1500	No
For all the 91099, 96600 series					

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Clause	Requirement + Test			Result - Remark	Verdict
Each side of heatshrink tube	2MOPP	340	--	4500	No
<b>Supplementary information:</b> <sup>1</sup> Alternatively, per the Table (i.e., __dc), a d.c. test voltage equal to the peak value of the a.c. test voltage used. <sup>2</sup> A) Immediately after humidity treatment of 5.7, ME EQUIPMENT de-energized, B) after required sterilization PROCEDURE, ME EQUIPMENT de-energized, C) after reaching steady state operating temperature as during heating test of 11.1.1, and D) after relevant tests of 11.6 (i.e., overflow, spillage, leakage, ingress of water, cleaning, disinfection, and sterilization).					

<b>8.8.4.1</b>	<b>TABLE: Resistance to heat - Ball pressure test of thermoplastic parts</b>		<b>P</b>
	<b>Allowed impression diameter (mm) .....</b>	<b>≤ 2 mm</b>	<b>—</b>
	<b>Force (N).....</b>	<b>20</b>	<b>—</b>
Part/material		Test temperature (°C)	Impression diameter (mm)
<b>Enclosure</b>			
SE1X		125	1.4
SE1		125	1.4
SE100		125	1.4
CX7211		125	1.4
945		125	1.3
HF500R		125	1.4
LN-1250G		125	1.3
PA-765A		125	1.3
PC-540		125	1.3
<b>Bobbin of Mains transformer</b>			
T375HF		125	1.2
PM-9820		125	1.4
<b>Supplementary information:</b> resistance to heat for insulation of thermoplastic materials that used as SUPPLEMENTARY INSULATION or REINFORCED INSULATION established by performing the ball-pressure test in at a temperature 25 °C higher than the temperature of the insulation measured during the tests of 13.2.2 to 13.2.13 (inclusive).			

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Clause	Requirement + Test	Result - Remark	Verdict
8.9.2	<b>TABLE: Short circuiting of each single one of the CREEPAGE DISTANCES and AIR CLEARANCES for insulation in the MAINS PART between parts of opposite polarity in lieu of complying with the required measurements in 8.9.4</b>		<b>P</b>
Specific areas of circuits short-circuited and test conditions	Test in lieu of CREEPAGE DISTANCE or AIR CLEARANCE <sup>1)</sup>	HAZARDOUS SITUATION observed (i.e., fire hazard, shock hazard, explosion, discharge of parts, etc.)? Yes/No	Remarks
See the table 13.1			
<b>Supplementary information:</b> <sup>1)</sup> Note: AC - AIR CLEARANCE CD - CREEPAGE DISTANCE			

8.9.3.2	Table: Thermal cycling tests on one sample of insulating compound forming solid insulation between conductive parts			N/A
Part Test	8.9.3.4 - Test duration and temperature for 10 cycles after which the sample was subjected to Humidity Preconditioning per Cl. 5.7	Dielectric test voltage	Dielectric strength test after humidity preconditioning per cl. 5.7 except for 48 h only, Breakdown: Yes/No	Crack or voids in the insulating compound: Yes/No
	68 h at T1 ± 2 °C = ____ °C <sup>1)</sup>			
	1 h at 25 °C ± 2 °C			
	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			
<b>Supplementary information:</b>				
<sup>1)</sup> T1 = 10 °C above the maximum temperature of relevant part determined per 11.1.1, or 85 °C, the higher of the two. 10 °C not added to T1 when temperature measured by an embedded thermocouple. Used gradual transition from one temperature to another.				

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict

8.9.3.3	Table: Thermal cycling tests on one sample of cemented joint with other insulating parts (see 8.9.3.3)			N/A
Part tested	Sample	Each test duration and temperature	Dielectric test voltage	Dielectric strength test Breakdown: Yes/No
	1	10 Cycles conducted of the following:		
		1 - 68 h at $T1 \pm 2\text{ }^{\circ}\text{C} = \text{---}^{\circ}\text{C}^1$		
		2 - 1 h at $25\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$		
		3 - 2 h at $0\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$		
		4 - 1 or more h at $25\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$		
	2	Humidity Conditioning per 5.7		
	3	Humidity Conditioning per 5.7		
<b>Supplementary information:</b> <sup>1)</sup> T1 = 10 °C above the maximum temperature of relevant part determined per 11.1.1, or 85 °C, the higher of the two. 10 °C not added to T1 when temperature measured by an embedded thermocouple. Used gradual transition from one temperature to another.				

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict

8.10	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>	
PCB	WALEX ELECTRONIC (WUXI) CO LTD	T2 T2A T2B T4	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E154355	
Alt. use	SHANGHAI H-FAST ELECTRONIC CO LTD	411001 211001	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E337862	
Alt. use	DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1 2V0 FR4	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E243157	
Alt. use	DAFENG AREX ELECTRONICS TECHNOLOGY COLTD	02V0 03V0 04V0	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E186016	
Alt. use	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A DGV0-3A	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E177671	
Alt. use	SHENZHEN TONGCHUANGX IN ELECTRONICS CO LTD	TCX	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E250336	
Fuse (FS1,FS2 or F1, F2) (FS2 or F2 is optional) (FS1, FS2 for GT*91099 series, F1, F2 for GT*96600 series, F1 for GT*96600-*56*** series)	Conquer Electronics Co., Ltd.	MST series	T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40017118 UL E82636	
Y capacitor (CY1, CY2) (CY1 for GT*96600-*56*** series) (Optional)	TDK-EPC Corporation, Capacitors Group Circuit Devices Business Group	CD	Y1, AC250V, max 2200pF, 25/125/21/B	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40029780 UL E37861	

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
Alt. use	Success Electronics Co., Ltd.	SE	Y1, AC250V, or AC500V, max 2200pF, 40/125/56/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40037211 VDE 40020002 UL E114280
Alt. use	Success Electronics Co., Ltd.	SB	Y1, AC250V, max 2200pF, 40/125/56/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40037221 VDE 40020001 UL E114280
Alt. use	Murata Mfg. Co., Ltd.	KX	Y1, AC250V, max 2200pF, 25/125/21/B	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40002831 UL E37921
Alt. use	Walsin Technology Corp.	AH	Y1, AC250V, max 2200pF, 25/125/21/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40001804 UL E146544
Alt. use	JYA-NAY Co., Ltd.	JN	Y1, AC250V, max 2200pF, 25/125/21/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40001831 UL E201384
Alt. use	Haohua Electronic Co.	CT 7	Y1, AC250V, max 2200pF, 30/125/56/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40003902 UL E233106
Alt. use	Jyh Chung Electronic Co., Ltd.	JD	Y1, AC250V, max 2200pF, 40/125/21/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 137027 UL E187963
Alt. use	Jerro Electronics Corp.	JX-series	Y1, AC250V, max 2200pF, 40/125/21/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032158 UL E333001
Alt. use	WELSON INDUSTRIAL CO LTD	WD	Y1, AC250V, max 2200pF, 55/125/21/C	IEC/EN 60384-14	VDE 40016157
X capacitor (CX1) (Optional)	Cheng Tung Industrial Co., Ltd.	CTX	Min. 300VAC, Max. 0.47μF, 110 °C, X1 or X2	UL 60384-14 UL 1414	UL E193049



IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
Alt. use	Tenta Electric Industrial Co. Ltd.	MEX	Min. 250VAC, Max. 0.47μF, 40/100/21/B, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 119119 UL E222911
Alt. use	Joey Electronics (Dong Guan) Co., Ltd.	MPX	Min. 250VAC, Max. 0.47μF, 40/105/21/B, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032481 UL E216807
Alt. use	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Min. 250VAC, Max. 0.47μF, 40/100/21/C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40015608 UL E183780
Alt. use	Yuan Yu Electronics Co. Ltd.	MPX	Min. 250VAC, Max. 0.47μF, 40/100/21/C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032392 UL E200119
Alt. use	Sinhua Electronics (Huzhou) Co., Ltd.	MPX	Min. 250VAC, Max. 0.47μF, 40/100/21/C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40014686 UL E237560
Alt. use	Jiangsu Xinghua Huayu Electronics Co., Ltd.	MPX - Series	Min. 250VAC, Max. 0.47μF, 40/100/21/C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40022417 UL E311166
Alt. use	Dain Electronics Co., Ltd.	MEX, MPX, NPX	Min. 250VAC, Max. 0.47μF, 40/100/21/C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40018798 UL E147776
Alt. use	Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	Min. 250VAC, Max. 0.47μF, 40/110/56/B, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40018690 UL E252286
Alt. use	Foshan Shunde Chuang Ge Electronic Industrial Co., Ltd.	MKP-X2	Min. 250VAC, Max. 0.47μF, 40/105/21/B, X2	IEC/EN 60384-14	VDE 40008922
Alt. use	Okaya Electric Industries Co. LTD	RE-Series	Min. 250VAC, Max. 0.47μF, 55/100/56/C, X2	IEC/EN 60384-14	VDE 40028657

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
Alt. use	VISHAY Capacitors Belgium NV	F 1772	Min. 250VAC, Max. 0.47 $\mu$ F, 40/100/56/C, X2	IEC/EN 60384-14	VDE 40005095
Alt. use	Winday Electronic Industrial Co., Ltd.	MPX series	Min. 250VAC, Max. 0.47 $\mu$ F, 40/100/21/C, X2	IEC/EN 60384-14	VDE 40018071
Alt. use	HUA JUNG COMPONENTS CO LTD	MPX series	Min. 250VAC, Max. 0.47 $\mu$ F, 40/100/21/C, X2	IEC/EN 60384-14	ENEC SE-ENEC-2001341 UL E149075
Photo coupler (U1 or U4) (U1 for GT*91099 series, U4 for GT*96600 series, U1 for GT*96600-*56*** series)	Everlight Electronics Co., Ltd.	EL817M	Dti=0.5mm Int., dcr=8.0mm thermal cycling test, 110°C	IEC 60601-1	VDE 132249
Alt. use	Lite-On Technology Corporation	LTV-817M	Dti=0.5mm Int. , dcr=6.0mm dcr=8.0mm, thermal cycling test, 110°C	IEC 60601-1	VDE 40015248
Varistor MOV1 or MOV (Optional) (MOV/MOV1 for GT*91099 series, MOV1 for GT*96600 series and GT*96600-*56*** series)	Thinking Electronic Industrial Co., Ltd.	TVR10471K, TVR14471K, TVR10621K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005944
Alt. use	Centra Science Corp.	10D471K, 14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 4008220
Alt. use	Success Electronics Co., Ltd.	SVR10D471K SVR14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40030401

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
Alt. use	Walsin Technology Co., Ltd.	14D471K 10D471	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40010090
Alt. use	Lien Shun Electronics Co., Ltd.	14D471K 10D471	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40005858
Alt. use	Ceramate Techn. Co., Ltd.	GNR10D471K GNR14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40031745
Alt. use	Brightking (Shenzhen) Co., Ltd.	14D471K 10D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40027827
Alt. use	Joyin Co., Ltd.	JVR10N471K JVR14N471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005937
Alt. use	Xiamen Set electronics Co., Ltd.	TFV8S471K TFV10S471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1, IEC 61051-2, IEC 61051-2-2, IEC 62368-1	TUV-RH J 50554061
Appliance inlet CN1 Class I units(C6 type)	Zhejiang LECI Electronics Co., Ltd.	DB-6	2.5A, 250Vac	IEC/EN 60320-1	VDE 40032465
Alt. use	Rich Bay Co., Ltd.	R-30790	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030381
Alt. use	Sun Fair Electric Wire & Cable (HK) Co. Ltd.	S-02	2.5A, 250Vac	IEC/EN 60320-1	VDE 40034448
Alt. use	TECX-UNIONS Technology Corporation	TU-333	2.5A, 250Vac	IEC/EN 60320-1	ENEC 00633
Alt. use	Rong Feng Industrial Co., Ltd.	RF-190	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030379
Alt. use	Inalways Corporation	0724	2.5A, 250Vac	IEC/EN 60320-1	ENEC 2010080

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
Alt. use	Zhe Jiang Bei Er jia	ST-A04-002	2.5A, 250Vac	IEC/EN 60320-1	VDE 40016045
Alt. use	Shenzhen Delikang Electronics Technology Co. Ltd.	CDJ-2	2.5A, 250Vac	IEC/EN 60320-1	VDE 40015580
Appliance inlet CN1 Class I units (C14 type)	Zhejiang LECI Electronics Co., Ltd.	DB-14	10A, 250Vac	IEC/EN 60320-1	VDE 40032137
Alt. use	Rich Bay Co., Ltd.	R-301SN	10A, 250Vac	IEC/EN 60320-1	VDE 40030228
Alt. use	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-03	10A, 250Vac	IEC/EN 60320-1	VDE 40034447
Alt. use	TECX-UNIONS Technology Corporation	TU-301-S, TU-301-SP	10A, 250Vac	IEC/EN 60320-1	ENEC 00647
Alt. use	Rong Feng Industrial Co., Ltd.	SS-120	10A, 250Vac	IEC/EN 60320-1	VDE 40028101
Alt. use	Inalways Corporation	0711	10A, 250Vac	IEC/EN 60320-1	ENEC 2010084
Alt. use	Zhe Jiang Bei Er jia	ST-A01-003J	10A, 250Vac	IEC/EN 60320-1	VDE 40013388
Appliance inlet CN1 Class II units (C8 type)	Zhejiang LECI Electronics Co., Ltd.	DB-8	2.5A, 250Vac	IEC/EN 60320-1	VDE 40032028
Alt. use	Rich Bay Co., Ltd.	R-201SN90	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030384
Alt. use	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-01	2.5A, 250Vac	IEC/EN 60320-1	VDE 40034449
Alt. use	TECX-UNIONS Technology Corporation	SO-222	2.5A, 250Vac	IEC/EN 60320-1	VDE 40043268
Alt. use	Rong Feng Industrial Co., Ltd.	RF-180	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030168
Alt. use	Inalways Corporation	0721	2.5A, 250Vac	IEC/EN 60320-1	ENEC 2010087

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
Alt. use	Zhe Jiang Bei Er jia	ST-A03-005	2.5A, 250Vac	IEC/EN 60320-1	VDE 40014833
Alt. use	Shenzhen Delikang Electronics Technology Co. Ltd.	CDJ-8	2.5A, 250Vac	IEC/EN 60320-1	VDE 40025531
Appliance inlet CON1 Class II units (C18 type)	HCR ELECTRONICS CO., LTD	SK05	10A, 250Vac	IEC/EN 60320-1	ENEC (NO4018)
Alt. use	Rong Feng Industrial Co., Ltd.	SS-120	10A, 250Vac	IEC/EN 60320-1	VDE 40028101
Input connector CN1 (For open frame)	NELTRON INDUSTRIAL CO LTD	2114S	Min 240V; Min 1.5A; Flame class min. V-2;	UL 94	UL E144392
Alt. use	JOINT TECH ELECTRONIC INDUSTRIAL CO LTD	A7920 series A3960 series	Min 250V; Min 7A; Flame class min. V-2;	UL 94	UL E179987
Alt. use	ZHEJIANG HONGXING ELECTRICAL CO LTD	HX396XX-YYY series	Min 250V; Min 5A; Flame class min. V-2;	UL 94	UL E228500
Earthing wire for Class I model or class II +functional earth	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1015, 1007, 1185, 3271, 3266, 1569	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E237831
Alt. use	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E333601
Alt. use	DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	1015, 1007, 1185, 3271, 3266, 1569	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E315628

IEC 60601-1					
Clause	Requirement + Test			Result - Remark	Verdict
Alt. use	YONG HAO ELECTRICAL INDUSTRY CO LTD	1015, 1007, 1185, 3271, 3266, 1569	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E240426
Alt. use	DONGGUAN GUNEETAL WIRE & CABLE CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E204204
Alt. use	SHENG YU ENTERPRISE CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E219726
Alt. use	KUNSHAN XINGHONGMEN G ELECTRONIC CO LTD	1015, 1007, 1185, 3271, 3266, 1569	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E315421
Alt. use	SUZHOU YEMAO ELECTRONIC CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E353532
Connection wiring for encapsulated models	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1015, 1007, 2468, 2464, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E237831
Alt. use	Interchangeable	1015, 1007, 2468, 2464, 1185, SPT-1, SPT-2	Min. 20AWG, min. 300Vac, min. 80°C	UL 758	UL approved
Output cord	Interchangeable	Interchangeable	Min. 24AWG, min. 300Vac, min. 80°C	UL 758	UL approved
Heat-shrinkable tubing (for GTM91099 series it is Optional)	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR, RSFR-H, RSFR-HPF	600V, 125°C, thickness Min0.4mm , L 75mm	UL 224	UL E203950
Alt. use	QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C , thickness Min0.4mm, L 75mm	UL 224	UL E225897

IEC 60601-1					
Clause	Requirement + Test			Result - Remark	Verdict
Alt. use	DONGGUAN SALIPT CO LTD	SALIPT S-901-300 SALIPT S-901-600	Min. 300V, 125°C Min0.4mm, L 75mm	UL 224	UL E209436
Alt. use	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (+) K-2 (CB)	Min. 300V, 125°C Min0.4mm, L 75mm	UL 224	UL E214175
Alt. use	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	Min. 300V, 125°C Min0.4mm, L 75mm	UL 224	UL E180908
Transformer (T1)	GlobTek / HAOPUWEI	See the list of P156	Class B, with critical component listed below	IEC 60601-1	Tested with appliance
-Varnish	T-4260(a)	TAIHU INSULATING MATERIAL	130 °C。	UL 1446	UL E228349
- Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130oC	UL 1446	UL E201757
Alt. use	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130oC	UL 1446	UL E201757
Alt. use	JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130oC	UL 1446	UL E174837
Alt. use	JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130oC	UL 1446	UL E174837
Alt. use	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130oC	UL 1446	UL E335065
Alt. use	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130oC	UL 1446	UL E158909
Alt. use	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130oC	UL 1446	UL E206882
Alt. use	JIANGSU DARTONG M & E CO LTD	UEW	MW 75-C, 130oC	UL 1446	UL E237377

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
Alt. use	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130oC	UL 1446	UL E194410
Alt. use	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#, 130oC	UL 1446	UL E222214
Alt. use	NINGBO JINTIAN NEW MATERIAL CO LTD	2UEW	MW 79#, 130°C	UL 1446	UL E222214
-Triple-insulated wire (Secondary)	Great Leoflon Industrial Co., Ltd.	TRW (B) Serie(s)	Class B, reinforced insulation	UL 2353 UL 60601-1	VDE 136581 UL E211989
-Bobbin	CHANG CHUN PLASTICS CO LTD	T375HF	V-0, 150°C, thickness 0,45 mm min.	UL 94 UL 746 A/B/C/D	UL E59481
- Alt. use	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, thickness 0,45 mm min.	UL 94 UL 746 A/B/C/D	UL E41429
-Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1	Min.130°C	UL 510	UL E17385
- Alt. use	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	Min.130°C	UL 510	UL E246820
-PTFE tubing	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	WF	600V, 200oC,0.4mm	UL224	UL E203950
-Insulating tape Used on HS1	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1	1:Overall measured 40mm by 117mm, 0.05mm thick, 1 layers 2:25mm by 87mm, 0.025mm thick, 2 layers 3:20mm by 101mm, 0.025mm thick, 2 layers.	UL 510	UL E17385



IEC 60601-1					
Clause	Requirement + Test			Result - Remark	Verdict
-Insulating tape Used on HS1 (use 3 types, for GTM96600 series)	BONDTEC PACIFIC CO LTD	370S	1:Overall measured 40mm by 117mm, 0.05mm thick, 1 layers 2:25mm by 87mm, 0.025mm thick, 2 layers 3:20mm by 101mm, 0.025mm thick, 2 layers.	UL 510	UL E175868
- Alt. use	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ CT WF	Overall measured 40mm by 117mm, 0.05mm thick, 1 layers 25mm by 87mm, 0.025mm thick, 2 layers 20mm by 101mm, 0.025mm thick, 2 layers.	UL 510	UL E165111
- Alt. use	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Overall measured 40mm by 117mm, 0.05mm thick, 1 layers 25mm by 87mm, 0.025mm thick, 2 layers 20mm by 101mm, 0.025mm thick, 2 layers.	UL 510	UL E246950
- Alt. use	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	Overall measured 40mm by 117mm, 0.05mm thick, 1 layers 25mm by 87mm, 0.025mm thick, 2 layers 20mm by 101mm, 0.025mm thick, 2 layers.	UL 510	UL E246820
HS1 for GTM96600 series	Interchangeable	Interchangeable	Aluminum Approximate overall dimension (42.9mm+23.5mm) x82mm , 2.0mm thick.	IEC 60601-1	Tested with appliance

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
HS2 for GTM96600 series	Interchangeable	Interchangeable	Aluminum Approximate overall dimension (103.5mm+14.5mm) x24.3mm, 2.0mm thick.	IEC 60601-1	Tested with appliance
Enclosure (all parts)	SABIC INNOVATIVE PLASTICS B V	SE1X, SE1	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 105°C	UL 94 UL 746 A/B/C/D	UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	SE100	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 95°C	UL 94 UL 746 A/B/C/D	UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	CX7211	PC/ABS, Min. V-1, Min. thickness: 2.0mm, 90°C	UL 94 UL 746 A/B/C/D	UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	UL 94 UL 746 A/B/C/D	UL E45329
Alt. use	SABIC JAPAN L L C	945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	UL94 UL746A/B/C/D	UL207780
Alt. use	SABIC INNOVATIVE PLASTICS B V	HF500R	PC, V-0, Min. thickness: 2.0mm, 125°C	UL 94 UL 746 A/B/C/D	UL E45329
Alt. use	TEIJIN CHEMICALS LTD	LN-1250G	PC, Min. V-0, Min. thickness: 2.0mm, 115°C	UL 94 UL 746 A/B/C/D	UL E50075
Alt. use	CHI MEI CORPORATION	PA-765A	ABS, Min. V-0, Min. thickness: 2.0mm, 85°C	UL 94 UL 746 A/B/C/D	UL E56070
Alt. use	CHI MEI CORPORATION	PC-540	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 70°C	UL 94 UL 746 A/B/C/D	UL E56070
Bleeder Resistor R10,R11 for GTM96600 series	Yageo Components (Suzhou)	RV1206	R10:100KΩ, R11:47KΩ	IEC62368-1	DK-108482-UL E491855
	TZAI YUAN ENTERPRISE CO LTD	HSMD OR SMD	R10:100KΩ, R11:47KΩ	IEC62368-1	E354677 DK-29431-UL
	Viking Tech Corporation Kaoshiung Branch	HVRC series	R10:100KΩ, R11:47KΩ	IEC 62368-1	DK-121748-UL E490339
	TY-Ohm Suzhou Electronic Works Co. Ltd	RT	R10:100KΩ, R11:47KΩ	IEC/EN 60950-1	VDE 40031266 UL E321764

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
	Ralec Electronic corp	RTV06	R10:100K $\Omega$ , R11:47K $\Omega$	IEC 62368-1	DK-66106-M1-UL
	Thick Film High-Voltage Chip Resistor	RVS-06#XXXFT series	R10:100K $\Omega$ , R11:47K $\Omega$	IEC 62368-1	DK-121748-UL
	WALSIN TECHNOLOGY CORP	WF12N	R10:100K $\Omega$ , R11:47K $\Omega$	IEC 62368-1	DK-119162-UL E491855
D2/D3 for GTM96600 series	YANGZHOU HYTECHNOLOGY DEVELOPMENT CO., LTD.	S1ML	Min.1000V Min.1A	IEC 60601-1	Test with equipment
ALT.	Interchangeable	Interchangeable	Min.1000V Min.1A	IEC 60601-1	Test with equipment
U1 for GTM96600 series	NXP Semiconductor Taiwan Ltd	TEA18362T	Vcc: Min 30V	IEC 62368-1	DK-40437-UL
BD1 for GTM96600 series	YANGZHOU HONGYANG ELECTRONIC., LTD	KBL406	4A, 600V	IEC 60601-1	Test with equipment
Alt.	Interchangeable	Interchangeable	Min. 4A, Min. 600V	IEC 60601-1	Test with equipment
Q1 for GTM96600 series	Oriental semiconductor	OSG65R760F	7A, 650V	IEC 60601-1	Test with equipment
Alt.	SILIKRON	SSF7NS65UF	7A, 650V	IEC 60601-1	Test with equipment
Alt.	Interchangeable	Interchangeable	Min. 7A, Min. 650V	IEC 60601-1	Test with equipment
Bulk Cap C1 for GTM96600 series	AISHI	WH	120uF, 400V, 105°C	IEC 60601-1	Test with equipment
Alt.	SAMXON	KM	120uF, 400V, 105°C	IEC 60601-1	Test with equipment
Alt.	TEAPO	SH	120uF, 400V, 105°C	IEC 60601-1	Test with equipment
Alt.	Interchangeable	Interchangeable	120uF, Min. 400V, 105°C	IEC 60601-1	Test with equipment
Choke LF1 for GTM96600 series	HEJIA	GTM91099-LF1	Min200uH	IEC 60601-1	Test with equipment
Choke LF2 for GTM96600 series	HAOPUWEI	NF00031	Min10mH	IEC 60601-1	Test with equipment
Supplementary information: Provided evidence ensures the agreed level of compliance. See OD-CB2039. For all transformers under all manufacturers.					

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict

Attachment for transformer as below:

Product Model	Voltage range	Transformer model
GT*96600 series	5V-8.9V	TF058
	9V-15V	TF059
	15.1V-20V	TF063
	20.1V-28V	TF060
	28.1V-40V	TF064
	40.1V-54V	TF061
GT*91099 series	5V-9V	XF00794
	9.1V-15V	XF00694
	15.1V-24V	XF00695
	24.1V-48V	XF00731
GT*96600-*56*** series	56V	TF072

8.10 b	TABLE: List of identified components with HIGH INTEGRITY CHARACTERISTICS					N/A
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>	
- Description:						
- Description:						
- Description:						
Supplementary information:						
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.						

8.11.3.5	TABLE: CORD ANCHORAGES				P
Cord under test	Mass of equipment (kg)	Pull (N)	Torque Nm)	Remarks	
Power cord for fixed power cord model series: GT*96600-**-TP/TP3/TW/TW3*	≤1	30	0.1	Pass	
Supplementary information:					

8.11.3.6	TABLE: Cord guard			P
Cord under test		Test mass	Measured curvature	Remarks
Power cord for fixed power cord model series: GT*96600-**-TP/TP3/TW/TW3*		160g	>6mm	Pass
Supplementary information:				

IEC 60601-1				
Clause	Requirement + Test		Result - Remark	Verdict
<b>9.2.2.2</b>	<b>TABLE: Measurement of gap “a” according to Table 20 (ISO 13852: 1996)</b>			<b>N/A</b>
Part of body	Allowable adult gap <sup>1)</sup> , mm	Measured adult gap, mm	Allowable children gap <sup>1)</sup> , mm	Measured children gap, mm
Body	> 500		> 500	
Head	> 300 or < 120		> 300 or < 60	
Leg	> 180		> 180	
Foot	> 120 or < 35		> 120 or < 25	
Toes	> 50		> 50	
Arm	> 120		> 120	
Hand, wrist, fist	> 100		> 100	
Finger	> 25 or < 8		> 25 or < 4	
Supplementary information: <sup>1)</sup> In general, gaps for adults used, except when the device is specifically designed for use with children, values for children applied.				

9.2.3.2	TABLE: Over-travel End Stop Test		N/A
ME EQUIPMENT end stop		Test Condition (cycles, load, speed)	Remarks
Supplementary information:			

9.4.2.1	TABLE: Instability—overbalance in transport position		N/A
ME EQUIPMENT preparation	Test Condition (transport position)	Remarks	
Supplementary information:			

9.4.2.2	TABLE: Instability—overbalance excluding transport position		P
ME EQUIPMENT preparation	Test Condition (excluding transport position) Test either 5 ° incline and verify Warning marking or 10 ° incline)	Remarks	
NC	10°C	No balance	
Supplementary information:			

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
9.4.2.3	TABLE: Instability—overbalance from horizontal and vertical forces		N/A
ME EQUIPMENT preparation	Test Condition (force used, direction of force, weight of equipment, location of force)	Remarks	
Supplementary information:			

9.4.2.4.2	TABLE: Castors and wheels – Force for propulsion		N/A
ME EQUIPMENT preparation	Test Condition (force location and height)	Remarks	
Supplementary information:			

9.4.2.4.3	TABLE: Castors and wheels – Movement over a threshold		N/A
ME EQUIPMENT preparation	Test Condition (speed of movement)	Remarks	
Supplementary information:			

9.4.3.1	TABLE: Instability from unwanted lateral movement (including sliding) in transport position		N/A
ME EQUIPMENT Preparation	Test Condition (transport position, working load, locking device(s), caster position)	Remarks	
Supplementary information:			

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
9.4.3.2	TABLE: Instability from unwanted lateral movement (including sliding) excluding transport position		N/A
ME EQUIPMENT Preparation	Test Condition (working load, locking device(s), caster position, force, force location, force direction)	Remarks	
Supplementary information:			

9.4.4	TABLE: Grips and other handling devices		N/A
Clause and Name of Test	Test Condition	Remarks	
Supplementary information:			

9.7.5	TABLE: Pressure vessels					N/A
Hydraulic, Pneumatic or Suitable Media and Test Pressure	Vessel Burst	Permanent Deformation	Leaks	Vessel fluid substance	Remarks	
Supplementary Information:						

9.8.3.2	TABLE: PATIENT support/suspension system - Static forces				N/A
ME EQUIPMENT part or area	Position	Load	Area	Remarks	
Supplementary Information:					

9.8.3.3	<b>TABLE: Support/Suspension System – Dynamic forces due to loading from persons</b>				<b>N/A</b>
ME EQUIPMENT part or area	Position	Safe Working Load	Area	Remarks	

IEC 60601-1				
Clause	Requirement + Test		Result - Remark	Verdict
9.8.3.3	<b>TABLE: Support/Suspension System – Dynamic forces due to loading from persons</b>			<b>N/A</b>
Supplementary Information:				

10.1.1	TABLE: Measurement of X - radiation		N/A
Maximum allowable radiation pA/kg ( μSv/h) (mR/h)		36 (5 μSv/h) (0.5 mR/h)	
Surface area under test Surface no./ Description <sup>1)</sup>		Measured Radiation, pA/kg (μSv/h) (mR/h)	Remarks
1/ /			
2/ /			
3/ /			
4/ /			
5/ /			
6/ /			
7/ /			
8/ /			
9/ /			
10/ /			
Supplementary information: <sup>1)</sup> Measurements made at 5 cm from any surface to which OPERATOR (other than SERVICE PERSONNEL) can gain access without a TOOL, is deliberately provided with means of access, or is instructed to enter regardless of whether or not a TOOL is needed to gain access			

11.1.1		TABLE: Excessive temperatures in ME EQUIPMENT					P
Model No. ....:		1	2	3	4	5-10	
Test ambient (°C) .....		40	40	70	70	See the below	
Test supply voltage/frequency (V/Hz) <sup>4)</sup> ..:		90/60	264/60	90/60	264/60	See the below	
Model No.	Thermo- couple No.	Thermocouple location <sup>3)</sup>		Max allowable temperature <sup>1)</sup> from Table 22, 23 or 24 or RM file for AP <sup>5)</sup> (°C)		Max measured temperature <sup>2)</sup> , (°C)	Remarks
GTM96600-4005-R2							



IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
<b>1</b>	1	T1 winding	130	103	
<b>1</b>	2	T1 core	--	93	
<b>1</b>	3	Output wire	80	53	
<b>1</b>	4	U4	100	83	
<b>1</b>	5	MOV1	85	78	
<b>1</b>	6	CY1	125	80	
<b>1</b>	7	CX1	100	86	
<b>1</b>	8	PCB	130	95	
<b>1</b>	9	External enclosure	71	65	Table 23 used, enclosure is likely to be touched for 1s to 10s.
<b>1</b>	10	Internal enclosure	--	73	
<b>1</b>	11	Inlet body	--	59	
<b>2</b>	1	T1 winding	130	94	
<b>2</b>	2	T1 core	--	86	
<b>2</b>	3	Output wire	80	51	
<b>2</b>	4	U4	100	77	
<b>2</b>	5	MOV1	85	70	
<b>2</b>	6	CY1	125	75	
<b>2</b>	7	CX1	100	72	
<b>2</b>	8	PCB	130	93	
<b>2</b>	9	External enclosure	71	59	Table 23 used, enclosure is likely to be touched for 1s to 10s.
<b>2</b>	10	Internal enclosure	--	67	
<b>2</b>	11	Inlet body	--	53	
GTM96600-6048-R2					
<b>1</b>	1	T1 winding	130	90	
<b>1</b>	2	T1 core	--	92	
<b>1</b>	3	Output wire	80	59	
<b>1</b>	4	U4	100	84	
<b>1</b>	5	MOV1	85	69	
<b>1</b>	6	CY1	125	76	

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
1	7	CX1	100	80	
1	8	PCB	130	72	
1	9	External enclosure	71	61	Table 23 used, enclosure is likely to be touched for 1s to 10s.
1	10	Internal enclosure	--	69	
1	11	Inlet body	--	66	
2	1	T1 winding	130	92	
2	2	T1 core	--	93	
2	3	Output wire	80	59	
2	4	U4	100	83	
2	5	MOV1	85	63	
2	6	CY1	125	76	
2	7	CX1	100	71	
2	8	PCB	130	72	
2	9	External enclosure	71	61	Table 23 used, enclosure is likely to be touched for 1s to 10s.
2	10	Internal enclosure	--	67	
2	11	Inlet body	--	62	
GTM96600-6054-R2					
1	1	T1 winding	130	96	
1	2	T1 core	--	100	
1	3	Output wire	80	58	
1	4	U4	100	87	
1	5	MOV1	85	83	
1	6	CY1	125	79	
1	7	CX1	100	95	
1	8	PCB	130	71	
1	9	External enclosure	71	70	Table 23 used, enclosure is likely to be touched for 1s to 10s.
1	10	Internal enclosure	--	73	

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
1	11	Inlet body	--	69	
2	1	T1 winding	130	90	
2	2	T1 core	--	95	
2	3	Output wire	80	58	
2	4	U4	100	81	
2	5	MOV1	85	74	
2	6	CY1	125	75	
2	7	CX1	100	81	
2	8	PCB	130	68	
2	9	External enclosure	71	65	Table 23 used, enclosure is likely to be touched for 1s to 10s.
2	10	Internal enclosure	--	67	
2	11	Inlet body	--	61	
GTM91099-6015-3.0-T2					
1	1	T1 winding	130	104	
1	2	T1 core	--	97	
1	3	Output wire	80	54	
1	4	U1	100	91	
1	5	MOV	85	81	
1	6	CY1	125	87	
1	7	CX1	100	92	
1	8	PCB	130	97	
1	9	External enclosure	71	69	Table 23 used, enclosure is likely to be touched for 1s to 10s.
1	10	Internal enclosure	--	79	
1	11	Inlet body	--	68	
2	1	T1 winding	130	91	
2	2	T1 core	--	83	
2	3	Output wire	80	51	
2	4	U1	100	79	
2	5	MOV	85	70	

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
2	6	CY1	125	76	
2	7	CX1	100	73	
2	8	PCB	130	86	
2	9	External enclosure	71	65	Table 23 used, enclosure is likely to be touched for 1s to 10s.
2	10	Internal enclosure	--	68	
2	11	Inlet body	--	64	
GTM91099-6048-12.0-T2					
1	1	T1 winding	130	86	
1	2	T1 core	--	90	
1	3	Output wire	80	57	
1	4	U1	100	83	
1	5	MOV	85	78	
1	6	CY1	125	75	
1	7	CX1	100	92	
1	8	PCB	130	70	
1	9	External enclosure	71	69	Table 23 used, enclosure is likely to be touched for 1s to 10s.
1	10	Internal enclosure	--	74	
1	11	Inlet body	--	62	
2	1	T1 winding	130	82	
2	2	T1 core	--	86	
2	3	Output wire	80	56	
2	4	U1	100	78	
2	5	MOV	85	72	
2	6	CY1	125	72	
2	7	CX1	100	76	
2	8	PCB	130	67	
2	9	External enclosure	71	66	Table 23 used, enclosure is likely to be touched for 1s to 10s.

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
2	10	Internal enclosure	--	68	
2	11	Inlet body	--	56	
GTM96600-2005-R2					
3	1	T1 winding	130	84	
3	2	T1 core	--	86	
3	3	Output wire	80	73	
3	4	U4	100	81	
3	5	MOV1	85	77	
3	6	CY1	125	79	
3	7	CX1	100	78	
3	8	PCB	130	83	
3	9	External enclosure	86	74	Table 23 used, enclosure is likely to be touched for less than 1s
3	10	Internal enclosure	--	76	
3	11	Inlet body	--	74	
4	1	T1 winding	130	84	
4	2	T1 core	--	86	
4	3	Output wire	80	72	
4	4	U4	100	81	
4	5	MOV1	85	76	
4	6	CY1	125	79	
4	7	CX1	100	76	
4	8	PCB	130	83	
4	9	External enclosure	86	74	Table 23 used, enclosure is likely to be touched for less than 1s
4	10	Internal enclosure	--	76	
4	11	Inlet body	--	73	
GTM96600-2412-R2					
3	1	T1 winding	130	94	
3	2	T1 core	--	96	
3	3	Output wire	80	74	

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
3	4	U4	100	84	
3	5	MOV1	85	83	
3	6	CY1	125	85	
3	7	CX1	100	84	
3	8	PCB	130	84	
3	9	External enclosure	86	75	Table 23 used, enclosure is likely to be touched for less than 1s
3	10	Internal enclosure	--	80	
3	11	Inlet body	--	74	
4	1	T1 winding	130	89	
4	2	T1 core	--	90	
4	3	Output wire	80	73	
4	4	U4	100	81	
4	5	MOV1	85	80	
4	6	CY1	125	81	
4	7	CX1	100	79	
4	8	PCB	130	81	
4	9	External enclosure	86	74	Table 23 used, enclosure is likely to be touched for less than 1s
4	10	Internal enclosure	--	77	
4	11	Inlet body	--	73	
GTM96600-2436-R2					
3	1	T1 winding	130	101	
3	2	T1 core	--	106	
3	3	Output wire	80	74	
3	4	U4	100	88	
3	5	MOV1	85	83	
3	6	CY1	125	90	
3	7	CX1	100	87	
3	8	PCB	130	92	

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
3	9	External enclosure	86	80	Table 23 used, enclosure is likely to be touched for less than 1s
3	10	Internal enclosure	--	87	
3	11	Inlet body	--	79	
4	1	T1 winding	130	98	
4	2	T1 core	--	103	
4	3	Output wire	80	73	
4	4	U1	100	85	
4	5	MOV	85	77	
4	6	CY1	125	88	
4	7	CX1	100	82	
4	8	PCB	130	89	
4	9	External enclosure	86	79	Table 23 used, enclosure is likely to be touched for less than 1s
4	10	Internal enclosure	--	84	
4	11	Inlet body	--	77	
GTM96600-2448-R2					
3	1	T1 winding	130	83	
3	2	T1 core	--	86	
3	3	Output wire	80	72	
3	4	U4	100	79	
3	5	MOV1	85	80	
3	6	CY1	125	78	
3	7	CX1	100	80	
3	8	PCB	130	76	
3	9	External enclosure	86	74	Table 23 used, enclosure is likely to be touched for less than 1s
3	10	Internal enclosure	--	77	
3	11	Inlet body	--	74	
4	1	T1 winding	130	85	

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
4	2	T1 core	--	88	
4	3	Output wire	80	72	
4	4	U4	100	80	
4	5	MOV1	85	81	
4	6	CY1	125	79	
4	7	CX1	100	80	
4	8	PCB	130	77	
4	9	External enclosure	86	75	Table 23 used, enclosure is likely to be touched for less than 1s
4	10	Internal enclosure	--	78	
4	11	Inlet body	--	73	
GT-96600-7056-T3-AP					
1	1	AC inlet	--	62.9	
1	2	PE wire	Ref	86.4	
1	3	PCB under BD1	130	115.9	
1	4	Line choke of LF2 winding	130	109.2	
1	5	X-capacior CX1	85	87.5	
1	6	Line choke of LF1 winding	130	78.0	
1	7	MOV1	85	70.8	
1	8	E-capacitor C3	105	97.2	
1	9	PCB under Q1	130	116.5	
1	10	Y-capacitor CY1	125	108.1	
1	11	T1 winding	130	108.7	
1	12	T1 core	Ref.	106.9	
1	13	Opto-coulpur U1	100	84.0	
1	14	PCB under D7	130	109.6	
1	15	E-capacitor C12	105	95.3	
1	16	Line choke of LF3 winding	130	82.0	
1	17	E-capacitor C14	105	87.3	
1	18	E-capacitor C16	105	74.5	
1	19	Y-capacitor CY3	125	57.8	
1	20	Enclosure inside near T1	--	88.7	



IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
1	21	Enclosure outside near T1	86	85.3	Table 23 used, enclosure is likely to be touched for less than 1s
2	1	AC inlet	--	53.9	
2	2	PE wire	Ref	73.4	
2	3	PCB under BD1	130	86.5	
2	4	Line choke of LF2 winding	130	78.3	
2	5	X-capacitor CX1	85	70.9	
2	6	Line choke of LF1 winding	130	64.0	
2	7	MOV1	85	59.6	
2	8	E-capacitor C3	105	82.2	
2	9	PCB under Q1	130	104.5	
2	10	Y-capacitor CY1	125	98.5	
2	11	T1 winding	130	107.3	
2	12	T1 core	Ref.	100.1	
2	13	Opto-coupler U1	100	76.2	
2	14	PCB under D7	130	103.2	
2	15	E-capacitor C12	105	89.1	
2	16	Line choke of LF3 winding	130	76.9	
2	17	E-capacitor C14	105	82.3	
2	18	E-capacitor C16	105	70.4	
2	19	Y-capacitor CY3	125	55.1	
2	20	Enclosure inside near T1	--	82.1	
2	21	Enclosure outside near T1	86	80.5	Table 23 used, enclosure is likely to be touched for less than 1s
2	11	Inlet body	--	56	
GTM96600-3005-R3A-CF					
1	1	T1 winding	130	83.7	
1	2	T1 core	--	78.2	
1	3	Output wire	80	51.9	
1	4	U4	100	68.8	
1	5	MOV1	85	64.6	

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
1	6	CY1	125	64.9	
1	7	CX1	100	65.8	
1	8	PCB	130	78.5	
1	9	External enclosure	71	54.3	Table 23 used, enclosure is likely to be touched for 1s to 10s.
1	10	Internal enclosure	--	56.8	
1	11	Inlet body	--	56.8	
2	1	T1 winding	130	88.7	
2	2	T1 core	--	80.2	
2	3	Output wire	80	52.1	
2	4	U4	100	69.1	
2	5	MOV1	85	64.0	
2	6	CY1	125	65.6	
2	7	CX1	100	63.1	
2	8	PCB	130	79.6	
2	9	External enclosure	71	70.3	Table 23 used, enclosure is likely to be touched for 1s to 10s.
2	10	Internal enclosure	--	74.6	
2	11	Inlet body	--	55.8	
GTM96600-4005-T2 T1 Pin 7,A to B after Q2 Overload Test, 90Vac/50Hz , 26.9 °C, calculate up to 40°C					
5	1	AC inlet	92.5 (=70*1.5-12.5)	83.4	
5	2	CX1 body	137.5 (=100*1.5-12.5)	94.6	
5	3	MOV1 body	115 (=85*1.5-12.5)	91.0	
5	4	PCB near BD1	182.5 (=130*1.5-12.5)	94.5	
5	5	LF1 coil	145 (=105*1.5-12.5)	92.4	
5	6	LF2 coil	145 (=105*1.5-12.5)	100.1	
5	7	C1 body	145 (=105*1.5-12.5)	103.9	
5	8	PCB near Q1	182.5 (=130*1.5-12.5)	99.7	
5	9	T1 coil	155	123.3	

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Clause	Requirement + Test		Result - Remark		Verdict
5	10	T1 core	155	113.8	
5	11	CY1 body	175 (=125*1.5-12.5)	106.1	
5	12	U4 body	137.5 (=100*1.5-12.5)	113.3	
5	13	Internal plastic enclosure near T1	122.5 (=90*1.5-12.5)	85.5	
5	14	External plastic enclosure near T1	86	76.2	Table 23 used, enclosure is likely to be touched for less than 1s
5	15	Output wire	107.5 (=80*1.5-12.5)	82.6	
5	16	Test corner	90	56.7	
5	17	Ambient	--	40.0	
GTM96600-4005-T2 T1 Pin 7,A to B after Q2 Overload Test, 264Vac/50Hz , 27.1 °C, calculate up to 40°C					
6	1	AC inlet	92.5 (=70*1.5-12.5)	66.4	
6	2	CX1 body	137.5 (=100*1.5-12.5)	73.6	
6	3	MOV1 body	115 (=85*1.5-12.5)	73.6	
6	4	PCB near BD1	182.5 (=130*1.5-12.5)	73.6	
6	5	LF1 coil	145 (=105*1.5-12.5)	72.4	
6	6	LF2 coil	145 (=105*1.5-12.5)	75.0	
6	7	C1 body	145 (=105*1.5-12.5)	80.9	
6	8	PCB near Q1	182.5 (=130*1.5-12.5)	80.0	
6	9	T1 coil	155	97.9	
6	10	T1 core	155	91.0	
6	11	CY1 body	175 (=125*1.5-12.5)	85.1	
6	12	U4 body	137.5 (=100*1.5-12.5)	91.7	
6	13	Internal plastic enclosure near T1	122.5 (=90*1.5-12.5)	69.8	
6	14	External plastic enclosure near T1	71	64.0	Table 23 used, enclosure is likely to be touched for 1s to 10s
6	15	Output wire	107.5 (=80*1.5-12.5)	69.3	
6	16	Test corner	90	51.2	

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Clause	Requirement + Test		Result - Remark		Verdict
6	17	Ambient	--	40.0	
GTM96600-6019-T2 T1 Pin A to B after D7 OverloadTest, 90Vac/50Hz , 26.9°C, calculate up to 40°C					
7	1	AC inlet	92.5 (=70*1.5-12.5)	90.0	
7	2	CX1 body	137.5 (=100*1.5-12.5)	109.1	
7	3	MOV1 body	115 (=85*1.5-12.5)	105.4	
7	4	PCB near BD1	182.5 (=130*1.5-12.5)	111.2	
7	5	LF1 coil	145 (=105*1.5-12.5)	104.4	
7	6	LF2 coil	145 (=105*1.5-12.5)	116.1	
7	7	C1 body	145 (=105*1.5-12.5)	115.5	
7	8	PCB near Q1	182.5 (=130*1.5-12.5)	112.7	
7	9	T1 coil	155	120.6	
7	10	T1 core	155	111.9	
7	11	CY1 body	175 (=125*1.5-12.5)	111.4	
7	12	U4 body	137.5 (=100*1.5-12.5)	118.6	
7	13	Internal plastic enclosure near T1	122.5 (=90*1.5-12.5)	98.1	
7	14	External plastic enclosure near T1	86	84.0	Table 23 used, enclosure is likely to be touched for less than 1s
7	15	Output wire	107.5 (=80*1.5-12.5)	71.6	
7	16	Test corner	90	59.9	
7	17	Ambient	--	40.0	
GTM96600-6019-T2 T1 Pin A to B after D7 Overload Test, 264Vac/50Hz , 27.1°C, calculate up to 40°C					
8	1	AC inlet	92.5 (=70*1.5-12.5)	71.6	
8	2	CX1 body	137.5 (=100*1.5-12.5)	85.3	
8	3	MOV1 body	115 (=85*1.5-12.5)	85.0	
8	4	PCB near BD1	182.5 (=130*1.5-12.5)	86.2	
8	5	LF1 coil	145 (=105*1.5-12.5)	83.3	
8	6	LF2 coil	145 (=105*1.5-12.5)	87.5	
8	7	C1 body	145 (=105*1.5-12.5)	94.3	

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Clause	Requirement + Test			Result - Remark	Verdict
8	8	PCB near Q1	182.5 (=130*1.5-12.5)	91.2	
8	9	T1 coil	155	100.7	
8	10	T1 core	155	94.2	
8	11	CY1 body	175 (=125*1.5-12.5)	92.4	
8	12	U4 body	137.5 (=100*1.5-12.5)	101.2	
8	13	Internal plastic enclosure near T1	122.5 (=90*1.5-12.5)	81.4	
8	14	External plastic enclosure near T1	86	71.4	Table 23 used, enclosure is likely to be touched for less than 1s
8	15	Output wire	107.5 (=80*1.5-12.5)	64.4	
8	16	Test corner	90	55.6	
8	17	Ambient	--	40.0	
GTM96600-6554-T3A 90Vac/50Hz T1 Pin A to B after D7 Overload Test, 90Vac/50Hz, 26.9°C, calculate up to 40°C					
9	1	AC inlet	92.5 (=70*1.5-12.5)	90	
9	2	CX1 body	137.5 (=100*1.5-12.5)	100.7	
9	3	MOV1 body	115 (=85*1.5-12.5)	96.8	
9	4	PCB near BD1	182.5 (=130*1.5-12.5)	120.6	
9	5	LF1 coil	145 (=105*1.5-12.5)	101.4	
9	6	LF2 coil	145 (=105*1.5-12.5)	122.6	
9	7	C1 body	145 (=105*1.5-12.5)	107.8	
9	8	PCB near Q1	182.5 (=130*1.5-12.5)	108.4	
9	9	T1 coil	155	123.6	
9	10	T1 core	155	111.5	
9	11	CY1 body	175 (=125*1.5-12.5)	102.6	
9	12	U4 body	137.5 (=100*1.5-12.5)	105.9	
9	13	Internal plastic enclosure near T1	122.5 (=90*1.5-12.5)	95.5	

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Clause	Requirement + Test		Result - Remark		Verdict
9	14	External plastic enclosure near T1	86	81.3	Table 23 used, enclosure is likely to be touched for less than 1s
9	15	Output wire	107.5 (=80*1.5-12.5)	73.8	
9	16	Test corner	90	57.4	
9	17	Ambient	--	40.0	
GTM96600-6554-T3A T1 Pin A to B after D7 Overload Test, 264Vac/50Hz, 27.1°C, calculate up to 40°C					
10	1	AC inlet	92.5 (=70*1.5-12.5)	73.1	
10	2	CX1 body	137.5 (=100*1.5-12.5)	79.3	
10	3	MOV1 body	115 (=85*1.5-12.5)	79.2	
10	4	PCB near BD1	182.5 (=130*1.5-12.5)	87.1	
10	5	LF1 coil	145 (=105*1.5-12.5)	81.8	
10	6	LF2 coil	145 (=105*1.5-12.5)	87.3	
10	7	C1 body	145 (=105*1.5-12.5)	87.6	
10	8	PCB near Q1	182.5 (=130*1.5-12.5)	87.6	
10	9	T1 coil	155	103.9	
10	10	T1 core	155	93.2	
10	11	CY1 body	175 (=125*1.5-12.5)	84.9	
10	12	U4 body	137.5 (=100*1.5-12.5)	91.0	
10	13	Internal plastic enclosure near T1	122.5 (=90*1.5-12.5)	79.2	
10	14	External plastic enclosure near T1	71	69.7	Table 23 used, enclosure is likely to be touched for 1s to 10s
10	15	Output wire	107.5 (=80*1.5-12.5)	65.5	
10	16	Test corner	90	53.8	
10	17	Ambient	--	40.0	

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Clause	Requirement + Test	Result - Remark	Verdict
<p>Supplementary information:</p> <p>1) Maximum allowable temperature on surfaces of test corner is 90 °C</p> <p>2) Max temperature determined in accordance with 11.1.3e)</p> <p>3) When thermocouples used to determine temperature of windings, limits of Table 22 reduced by 10 °C.</p> <p>4) Supply voltage:</p> <ul style="list-style-type: none"> <li>- ME EQUIPMENT with heating elements - 110 % of the maximum RATED voltage;</li> <li>- Motor operated ME EQUIPMENT - least favourable voltage between 90 % of the minimum RATED and 110 % of the maximum RATED voltage. ME EQUIPMENT operated under normal load and normal DUTY CYCLE.</li> <li>- Combined heating and motor operated and other ME EQUIPMENT - tested both at 110 % of the maximum RATED voltage and at 90 % of the minimum RATED voltage.</li> </ul> <p>5) <b>APPLIED PARTS</b> intended to supply heat to a <b>PATIENT</b> - See RISK MANAGEMENT FILE containing temperatures and clinical effects. Also, see instructions for use.</p> <p>Information from Risk Management, as applicable:</p>			

11.1.3d	TABLE: Temperature of windings by change-of-resistance method							N/A
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation n class	
Supplementary information:								

11.2.2.1	TABLE: Alternative method to 11.2.2.1 a) 5) to determine existence of an ignition source		N/A
Areas where sparking might cause ignition:		Remarks	
1.			
2.			
3.			
Materials of the parts between which sparks could occur (Composition, Grade Designation, Manufacturer):		Remarks	
1.			
2.			
3.			
Test parameters selected representing worst case conditions for ME EQUIPMENT:		Remarks	
Oxygen concentration (%)..... :			
Fuel .....			
Current (A) .....			
Voltage (V)..... :			
Capacitance (μF) .....			

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Clause	Requirement + Test	Result - Remark	Verdict
<b>Inductance or resistance (h or <math>\Omega</math>) .... :</b>			
<b>No. of trials (300 Min) .....</b>			
<b>Sparks resulted in ignition (Yes/No) :</b>			
Supplementary information: Test procedure of 11.2.2.1 a) 5) & Figs 35-37 used for tests. For circuits not in Figs 35-37, test voltage or current set at 3 times the worst-case values with other parameters set at worst case values to determine if ignition can occur. Information from Risk Management, as applicable:			

11.6.1	TABLE: overflow, spillage, leakage, ingress of water, cleaning, disinfection, sterilization, compatibility with substances			N/A
Clause / Test Name		Test Condition	Part under test	Remarks
Supplementary information:				
Information from Risk Management, as applicable:				

<b>13.1.2</b>	<b>TABLE: measurement of power or energy dissipation in parts &amp; components to waive SINGLE FAULT CONDITIONS in 4.7, 8.1 b), 8.7.2, and 13.2.2 relative to emission of flames, molten metal, or ignitable substances</b>			<b>N/A</b>
<b>Power dissipated less than (W) .....</b>		<b>15</b>		
<b>Energy dissipated less than (J) .....</b>		<b>900</b>		
Part or component tested	Measured power dissipated (W)	Calculated energy dissipated (J)	SINGLE FAULT CONDITIONS waived (Yes/No)	Remarks
Supplementary information:				



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Clause	Requirement + Test	Result - Remark	Verdict
<b>13.2</b>	<b>TABLE: SINGLE FAULT CONDITIONS in accordance with 13.2.2 to 13.2.13, inclusive</b>		<b>P</b>
Clause No.	Description of SINGLE FAULT CONDITION	Results observed	HAZARDOUS SITUATION (Yes/No) <sup>2)</sup>
<b>13.2.2</b>	<b>Electrical SINGLE FAULT CONDITIONS per Cl. 8.1:</b>	—	—
	Output, SC (Test Voltage 264 Vac, directly on 20A branch, before Variac and programmable AC source) )	EUT protected immediately, no hazards	No
	C4, SC (Test Voltage 264 Vac, directly on 20A branch, before Variac and programmable AC source) )	EUT protected immediately, no hazards	No
	Q1 pinD-S , SC (Test Voltage 264 Vac, directly on 20A branch, before Variac and programmable AC source) )	EUT shut down immediately, fuse opened, repeat 10 times, no hazards	No
	Q1 pinG-S , SC (Test Voltage 264 Vac, directly on 20A branch, before Variac and programmable AC source) )	EUT protected immediately, no hazards	No
	D4, SC (Test Voltage 264 Vac, directly on 20A branch, before Variac and programmable AC source) )	EUT protected immediately, no hazards	No
	R1, SC (Test Voltage 264 Vac, directly on 20A branch, before Variac and programmable AC source) )	EUT protected immediately, no hazards	No
	T1 pin1-3 , SC (Test Voltage 264 Vac, directly on 20A branch, before Variac and programmable AC source) )	EUT shut down immediately, fuse opened, repeat 10 times, no hazards	No
	T1 pinA-B , SC (Test Voltage 264 Vac, directly on 20A branch, before Variac and programmable AC source) )	EUT protected immediately, no hazards	No
	C1, SC (Test Voltage 264 Vac, directly on 20A branch, before Variac and programmable AC source) )	EUT shut down immediately, fuse opened, repeat 10 times, no hazards	No
	BD1, SC Pin AC to Pin +, Pin AC to Pin -	EUT shut down immediately, fuse opened, repeat 10 times, no hazards	No
	MOV1, SC for GTM96600-6019-T3 (Test Voltage 240 Vac, directly on 20A branch, before Variac and programmable AC source)	EUT shut down immediately, fuse opened, repeat 10 times, no hazards	No
<b>13.2.3</b>	<b>Overheating of transformers per Clause 15.5:</b>	—	—
		See 15.5	No

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Clause	Requirement + Test	Result - Remark	Verdict
Clause No.	Description of SINGLE FAULT CONDITION	Results observed	HAZARDOUS SITUATION (Yes/No) <sup>2)</sup>
13.2.4	Failure of THERMOSTATS according to 13.2.13 & 15.4.2, overloading - THERMOSTATS short circuited or interrupted, the less favourable of the two:	—	—
		No thermostat used	N/A
13.2.5	Failure of temperature limiting devices according to 13.2.13 & 15.4.2, overloading, THERMOSTATS short circuited or interrupted, the less favourable of the two:	—	—
		No temperature limiting device	N/A
13.2.6	Leakage of liquid - RISK MANAGEMENT FILE examined to determine the appropriate test conditions (sealed rechargeable batteries exempted)	—	—
			N/A
13.2.7	Impairment of cooling that could result in a HAZARD using test method of 11.1:	—	—
	Single ventilation fans locked consecutively	No fan used	N/A
	Ventilation openings on top and sides impaired by covering openings on top of ENCLOSURE or positioning of ME EQUIPMENT against walls	No ventilation opening	N/A
	Simulated blocking of filters	No filter	N/A
	Flow of a cooling agent interrupted	No cooling agent used	N/A
13.2.8	Locking of moving parts – Only one part locked at a time – Also see 13.2.10 below:	—	—
		No moving part	N/A
13.2.9	Interruption and short circuiting of motor capacitors – Motor capacitors short & open circuited <sup>1)</sup> – Also see 13.10	—	—
		No motor	N/A
13.2.10	Additional test criteria for motor operated ME EQUIPMENT in 13.2.8 & 13.2.9:	—	—

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Clause	Requirement + Test	Result - Remark	Verdict
Clause No.	Description of SINGLE FAULT CONDITION	Results observed	HAZARDOUS SITUATION (Yes/No) <sup>2)</sup>
	<b>For every test in SINGLE FAULT CONDITION of 13.2.8 and 13.2.9, motor-operated EQUIPMENT started from COLD CONDITION at RATED voltage or upper limit of RATED voltage range for specified time:</b>	No motor	N/A
	<b>Temperatures of windings determined at the end of specified test periods or at the instant of operation of fuses, THERMAL CUT-OUTS, motor protective devices</b>	No motor	N/A
	<b>Temperatures measured as specified in 11.1.3 d)</b>	No motor	N/A
	<b>Temperatures did not exceed limits of Table 26</b>	No motor	N/A
<b>13.2.11</b>	<b>Failures of components in ME EQUIPMENT used in conjunction with OXYGEN RICH ENVIRONMENTS:</b>	—	—
			N/A
<b>13.2.12</b>	<b>Failure of parts that might result in a MECHANICAL HAZARD (See 9 &amp; 15.3):</b>	—	—
			N/A
Supplementary information: <sup>1)</sup> Test with short-circuited capacitor not performed when motor provided with a capacitor complying with IEC 60252-1 and the ME EQUIPMENT not intended for unattended use including automatic or remote control. See Attachment # and appended Table 8.10. Information from Risk Management, as applicable: <sup>2)</sup> Dielectric strength tested according to table 8.8.3.			

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Clause	Requirement + Test		Result - Remark	Verdict
15.3	TABLE: Mechanical Strength tests <sup>1)</sup>			P
Clause	Name of Test	Test conditions	Observed results/Remarks	
15.3.2	Push Test	Force = 250 N ± 10 N for 5 s	No damage	
15.3.3	Impact Test	Steel ball (50 mm in dia., 500 g ± 25 g) falling from a 1.3 m	No damage	
15.3.4.1	Drop Test (hand-held)	Free fall height (m) =	N/A	
15.3.4.2	Drop Test (portable)	Drop height (cm) =1m	No visible damage.	
15.3.5	Rough handling test	Travel speed (m/s) =	N/A	
15.3.6	Mould Stress Relief	7 h in oven at temperature (°C) = 98.7°C	No damage	
Supplementary information: <sup>1)</sup> As applicable, Push, Impact, Drop, Mould Stress Relief and Rough Handling Tests (delete not applicable rows or state N/A in Remarks field).				

<b>15.4.6</b>	<b>TABLE: actuating parts of controls of ME EQUIPMENT – torque &amp; axial pull tests</b>				<b>N/A</b>
Rotating control under test	Gripping diameter “d” of control knob (mm) <sup>1)</sup>	Torque from Table 30 (Nm)	Axial force applied (N)	Unacceptable RISK occurred Yes/No	Remarks
Supplementary information: <sup>1)</sup> Gripping diameter (d) is the maximum width of a control knob regardless of its shape (e.g. control knob with pointer)					

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Clause	Requirement + Test			Result - Remark			Verdict
15.5.1.2	TABLE: transformer short circuit test short-circuit applied at end of windings or at the first point that could be short circuited under SINGLE FAULT CONDITION						P
Primary voltage (most adverse value from 90 % to 110 % of RATED voltage)(V) <sup>1)</sup> ...:					264Vac		—
RATED input frequency (Hz).....:					60		—
Winding tested	Class of insulation (A, B, E, F, or H)	Type of protective device (fuse, circuit breaker) /Ratings	Protective device operated Yes/No	Time to THERMAL STABILITY (when protective device did not operate)(Min)	Maximum allowed temp from Table 31 (°C)	Maximum winding temp measured (°C)	Ambie nt (°C)
TF058 (Output 5V)	B	Fuse 3.15A	No	5min	1653	103	25
TF061 (Output 54V)	B	Fuse 3.15A	No	5min	1653	86	25
XF00694(O utput 12V)	B	Fuse 3.15A	No	5min	1653	103	25
XF00731(O utput 48V)	B	Fuse 3.15A	No	5min	1653	90	25
GTM96600 -4005-T2: T1 Pin 7,A to B after Q2 Shorted Test	B	F1/F2 /3.15A	No	2hrs. 40mins	155	87.5	Shift to 40
GTM96600 -6019-T2: T1 Pin A to B after D7 Shorted Test	B	F1/F2 /3.15A	No	2hrs. 40mins	155	67.1	Shift to 40
GTM96600 -6554-T3A: T1 Pin A to B after D7 Shorted Test	B	F1/F2 /3.15A	No	2hrs. 40mins	155	64.7	Shift to 40
Supplementary information: <sup>1</sup> Loads on other windings between no load and their NORMAL USE load. Short-circuit applied at end of windings or at the first point that could be short circuited under SINGLE FAULT CONDITION. <sup>2</sup> SMPS current limiting circuits operated immediately. <sup>3</sup> Thermocouples are used, so the limit is to be reduced by10 °C.							

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Clause	Requirement + Test		Result - Remark		Verdict
15.5.1.3	TABLE: transformer overload test – conducted only when protective device under short-circuit test operated				P
Primary voltage, most adverse value between 90 % to 110 % of RATED voltage (V) <sup>1)</sup> ..... :				264V	
RATED input frequency (Hz) ..... :				60HZ	
Test current just below minimum current that would activate protective device and achieve THERMAL STABILITY under method a) (A) ..... :				See below	
Test current based on Table 32 when protective device that operated under method a) is external to transformer, and it was shunted (A) ..... :				Not 60127-1 fuse	
Winding tested	Class of insulation (A, B, E, F, H)	Type of protective device used (fuse, circuit breaker)/Ratings	Maximum allowed temp from Table 31 (°C)	Maximum winding temp measured (°C)	Ambient (°C)
TF058 (Output 5V)	B	Fuse 3.15A (OL current 0.383A)	1652	93	25
TF061 (Output 54V)	B	Fuse 3.15A (OL current 0.682A)	1652	102	25
XF00694(Output t 12V)	B	Fuse 3.15A (OL current 0.778A)	1652	97.1	28
XF00731(Output t 48V)	B	Fuse 3.15A (OL current 0.793A)	1652	105	26
GTM96600-4005-T2: T1 Pin 7,A to B after Q2 Overload Test	B	F1/F2/3.15A	155	123.3	Shift to 40
GTM96600-6019-T2: T1 Pin A to B after D7 Overload Test	B	F1/F2/3.15A	155	120.6	Shift to 40
GTM96600-6554-T3A: T1 Pin A to B after D7 Overload Test	B	F1/F2/3.15A	155	123.6	Shift to 40
Supplementary information: <sup>1)</sup> Loads on other windings between no load and their NORMAL USE load. Time durations: - IEC 60127-1 fuse: 30 min at current from Table 32. Non IEC 60127-1 fuse: 30 min at the current based on characteristics supplied by fuse manufacturer, specifically, 30 min clearing-time current. When no 30 min clearing-time current data available, test current from Table 32 used until THERMAL STABILITY achieved. - Other types of protective devices: until THERMAL STABILITY achieved at a current just below minimum current operating the protective device in a). This portion concluded at specified time or when a second protective device opened.					

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Clause		Requirement + Test		Result - Remark		Verdict
15.5.2	TABLE: Transformer dielectric strength after humidity preconditioning of 5.7					P
Transformer Model/Type/ Part No	Test voltage applied between		Test voltage, (V)	Test frequency (Hz)	Breakdown Yes/No	Deterioration Yes/No
All models	Primary & secondary windings		4612	50	No	No
All models	Primary winding & core		1500	50	No	No
All models	Secondary winding & core		4612	50	No	No
Supplementary information: Tests conducted under the conditions of 11.1, in ME EQUIPMENT or under simulated conditions on the bench. See Clause 15.5.2 for test parameters & other details						
1. Each transformer model is identical in insulation construction including clearance and creepage except number of turns per coil.						
2. The core of transformer (T1) is considered as primary winding, the TIW is used in secondary winding of transformer (T1).						
3. All types of transformer from all manufacturers listed in table 8.10 are tested.						

<b>16.6.1</b>	<b>TABLE: LEAKAGE CURRENTS in ME SYSTEM _ TOUCH CURRENT MEASUREMENTS</b>				<b>N/A</b>
Specific area where TOUCH CURRENT measured (i.e., from or between parts of ME SYSTEM within PATIENT ENVIRONMENT)	Allowable TOUCH CURRENT in NORMAL CONDITION (μA)	Measured TOUCH CURRENT in NORMAL CONDITION (μA)	Allowable TOUCH CURRENT in event of interruption of PROTECTIVE EARTH CONDUCTOR, (μA)	Measured TOUCH CURRENT in event of interruption of PROTECTIVE EARTH CONDUCTOR, (μA)	
	<b>100</b>		<b>500</b>		
	<b>100</b>		<b>500</b>		
	<b>100</b>		<b>500</b>		
	<b>100</b>		<b>500</b>		
	<b>100</b>		<b>500</b>		
Supplementary information:					

SP	TABLE: Additional or special tests conducted		N/A
Clause and Name of Test	Test type and condition	Observed results	
Supplementary information:			

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Clause	Requirement + Test	Result - Remark	Verdict

	<b>Attachment - Software – IEC 62304:2006+AMD1:2015</b>		—
<b>4.3</b>	<b>[A, B, C] Software safety classification</b>		—
	a) The MANUFACTURER assigns to each SOFTWARE SYSTEM a software safety class according to the RISK of HARM to the patient, operator, or other people resulting from a HAZARDOUS SITUATION to which the SOFTWARE SYSTEM can contribute in a worst-case-scenario		N/A
	The SOFTWARE SYSTEM is software safety class A if:		—
	– the SOFTWARE SYSTEM not contribute to a HAZARDOUS SITUATION; or		N/A
	– the SOFTWARE SYSTEM contribute to a HAZARDOUS SITUATION which does not result in unacceptable RISK after consideration of RISK CONTROL measures external to the SOFTWARE SYSTEM		N/A
	The SOFTWARE SYSTEM is software safety class B if:		—
	– the SOFTWARE SYSTEM contribute to a HAZARDOUS SITUATION which results in unacceptable RISK after consideration of RISK CONTROL measures external to the SOFTWARE SYSTEM and the resulting possible HARM is non-SERIOUS INJURY		N/A
	The SOFTWARE SYSTEM is software safety class C if:		—
	– the SOFTWARE SYSTEM contribute to a HAZARDOUS SITUATION which results in unacceptable RISK after consideration of RISK CONTROL measures external to the SOFTWARE SYSTEM and the resulting possible HARM is death or SERIOUS INJURY		N/A
	For a SOFTWARE SYSTEM initially classified as software safety class B or C, the MANUFACTURER has implemented additional RISK CONTROL measures external to the SOFTWARE SYSTEM and subsequently has assigned a new software safety classification to the SOFTWARE SYSTEM		N/A
	c) The MANUFACTURER documents the software safety class assigned to each SOFTWARE SYSTEM in the RISK MANAGEMENT FILE		N/A
	d) When a SOFTWARE SYSTEM is decomposed into SOFTWARE ITEMS, and when a SOFTWARE ITEM is decomposed into further SOFTWARE ITEMS, such SOFTWARE ITEMS inherit the software safety classification of the original SOFTWARE ITEM (or SOFTWARE SYSTEM) unless the MANUFACTURER documents a rationale for classification into a different software safety class		N/A



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	A rationale explains how the new SOFTWARE ITEMS are segregated so that they may be classified separately		N/A
	e) The MANUFACTURER documents the software safety class of each SOFTWARE ITEM if that class is different from the class of the SOFTWARE ITEM from which it was created by decomposition		N/A
	f) When applied to a group of SOFTWARE ITEMS, the MANUFACTURER uses the PROCESSES and TASKS which are required by the classification of the highest-classified SOFTWARE ITEM in the group unless the MANUFACTURER documents in the RISK MANAGEMENT FILE a rationale for using a lower classification		N/A
	g) Class C requirements apply for each SOFTWARE SYSTEM, until a software safety class is assigned		N/A
<b>4.4</b>	<b>[A, B, C] LEGACY SOFTWARE</b>		—
	Clauses 5 through 9 have applied to demonstrate the compliance of LEGACY SOFTWARE		N/A
	As alternative, clauses 4.4.2 through 4.4.5 have applied to demonstrate the compliance of LEGACY SOFTWARE		N/A
<b>4.4.2</b>	<b>[A, B, C] RISK MANAGEMENT ACTIVITIES</b>		—
	The MANUFACTURER:		N/A
	a) assesses any feedback, including post-production information, on LEGACY SOFTWARE regarding incidents and / or near incidents, both from inside its own organization and / or from users		N/A
	b) performs RISK MANAGEMENT ACTIVITIES associated with continued use of the LEGACY SOFTWARE		N/A
	Considering the following aspects:		N/A
	– integration of the LEGACY SOFTWARE in the overall MEDICAL DEVICE architecture		N/A
	– continuing validity of RISK CONTROL measures, implemented as part of the LEGACY SOFTWARE		N/A
	– identification of HAZARDOUS SITUATIONS associated with the continued use of the LEGACY SOFTWARE		N/A
	– identification of potential causes of the LEGACY SOFTWARE contributing to a HAZARDOUS SITUATIONS		N/A
	– definition of RISK CONTROL measures for each potential cause of the LEGACY SOFTWARE contributing to a HAZARDOUS SITUATIONS		N/A
<b>4.4.3</b>	<b>[A, B, C] Gap analysis</b>		N/A

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	Based on the software safety class of the LEGACY SOFTWARE, the MANUFACTURER performs a gap analysis of available DELIVERABLES against those required according to 5.2, 5.3, 5.7, and Clause 7		N/A
	a) The MANUFACTURER assesses the continuing validity of available DELIVERABLES		N/A
	b) Where gaps are identified, the MANUFACTURER EVALUATES the potential reduction in RISK resulting from the generation of the missing DELIVERABLES and associated ACTIVITIES		N/A
	c) Based on this evaluation, the MANUFACTURER determines the DELIVERABLES to be created and associated ACTIVITIES to be performed		N/A
	SOFTWARE SYSTEM test records are the minimum DELIVERABLES to be created		N/A
4.4.4	[A, B, C] Gap closure activities		N/A
	a) The MANUFACTURER establishes and executes a plan to generate the identified DELIVERABLES		N/A
	Objective evidences have used to generate required DELIVERABLES without performing ACTIVITIES required by 5.2, 5.3, 5.7 and Clause 7		N/A
	b) The plan addresses the use of the problem resolution PROCESS for handling problems detected in the LEGACY SOFTWARE and DELIVERABLES in accordance with Clause 9		N/A
	c) Changes to the LEGACY SOFTWARE have performed in accordance with Clause 6.		N/A
4.4.5	[A, B, C] Rationale for use of LEGACY SOFTWARE		N/A
	The MANUFACTURER documents the VERSION of the LEGACY SOFTWARE together with a rationale for the continued use of the LEGACY SOFTWARE		N/A

<b>5</b>	<b>SOFTWARE DEVELOPMENT PROCESS</b>		<b>—</b>
<b>5.1</b>	<b>Software development planning</b>		<b>—</b>
5.1.1	[A, B, C] The MANUFACTURER establishes a software development plan (or plans) for conducting the ACTIVITIES of the software development PROCESS appropriate to the scope, magnitude, and software safety classifications of the SOFTWARE SYSTEM to be developed.		N/A
	The SOFTWARE DEVELOPMENT LIFE CYCLE MODEL is either fully defined or be referenced in the plan (or plans).		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	The plan addresses the following:		N/A
	a) the PROCESSES to be used in the development of the SOFTWARE SYSTEM		N/A
	b) the DELIVERABLES (includes documentation) of the ACTIVITIES and TASKS		N/A
	c) TRACEABILITY between SYSTEM requirements, software requirements, SOFTWARE SYSTEM test, and RISK CONTROL measures implemented in software		N/A
	d) software configuration and change management, including SOUP CONFIGURATION ITEMS and software used to support development		N/A
	e) software problem resolution for handling problems detected in the MEDICAL DEVICE SOFTWARE, DELIVERABLES and ACTIVITIES at each stage of the life cycle		N/A
5.1.2	[A, B, C] The MANUFACTURER updates the plan, as appropriate, as development proceeds		N/A
5.1.3	[A, B, C] Software development plan reference to SYSTEM design and development		N/A
	a) As inputs for software development, SYSTEM requirements are referenced in the software development plan by the MANUFACTURER		N/A
	b) In the software development plan, the MANUFACTURER includes or references procedures for coordinating the software development with the system development necessary to satisfy 4.1 (such as system integration, verification, and validation)		N/A
5.1.4	[C] Associated with the development of SOFTWARE ITEMS of class C, in the software development plan are included or referenced:		N/A
	a) standards		N/A
	b) methods		N/A
	c) tools		N/A
5.1.5	[B, C] The MANUFACTURER includes or references in the software development plan, a plan to integrate the SOFTWARE ITEMS (including SOUP) and performs testing during integration		N/A
5.1.6	[A, B, C] In the software development plan, the following VERIFICATION information are included or referenced:		N/A
	a) DELIVERABLES requiring VERIFICATION		N/A
	b) the required VERIFICATION TASKS for each life cycle ACTIVITY		N/A
	c) milestones at which the DELIVERABLES are VERIFIED		N/A

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	d) the acceptance criteria for VERIFICATION of the DELIVERABLES		N/A
5.1.7	[A, B, C] In the software development plan the MANUFACTURER includes or references a plan to conduct the ACTIVITIES and TASKS of the software RISK MANAGEMENT PROCESS, including the management of RISKS relating to SOUP		N/A
5.1.8	[A, B, C] In the software development plan the MANUFACTURER includes or references information about the documents to be produced during the software development life cycle		N/A
	For each identified document or type of document the following information has included or referenced:		N/A
	a) title, name or naming convention		N/A
	b) purpose		N/A
	c) procedures and responsibilities for development, review, approval and modification		N/A
5.1.9	[A, B, C] The MANUFACTURER includes or references software configuration management information in the software development plan		N/A
	The software configuration management information includes or references:		N/A
	a) the classes, types, categories or lists of items to be controlled		N/A
	b) the software configuration management ACTIVITIES and TASKS		N/A
	c) the organization(s) responsible for performing software configuration management and ACTIVITIES		N/A
	d) their relationship with other organizations, such as software development or maintenance		N/A
	e) when the items are to be placed under configuration control		N/A
	f) when the problem resolution PROCESS is to be used		N/A
5.1.10	[B, C] The items to be controlled include tools, items or settings, used to develop the MEDICAL DEVICE SOFTWARE, which could impact the MEDICAL DEVICE SOFTWARE		N/A
5.1.11	[B, C] The MANUFACTURER plans to place CONFIGURATION ITEMS under documented configuration management control before they are VERIFIED		N/A
5.1.12	[B, C] In the software development plan the MANUFACTURER includes or references a procedure for:		N/A

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	a) identifying categories of defects that may be introduced based on the selected programming technology that are relevant to their SOFTWARE SYSTEM		N/A
	b) documenting evidence that demonstrates that these defects do not contribute to unacceptable RISK		N/A
<b>5.2</b>	<b>Software requirements analysis</b>		—
5.2.1	[A, B, C] For each SOFTWARE SYSTEM of the MEDICAL DEVICE, the MANUFACTURER defines and documents SOFTWARE SYSTEM requirements from the SYSTEM level requirements		N/A
5.2.2	[A, B, C] As appropriate to the MEDICAL DEVICE SOFTWARE, the MANUFACTURER includes in the software requirements:		N/A
	a) functional and capability requirements		N/A
	b) SOFTWARE SYSTEM inputs and outputs		N/A
	c) interfaces between the SOFTWARE SYSTEM and other SYSTEMS		N/A
	d) software-driven alarms, warnings, and operator messages		N/A
	e) SECURITY requirements		N/A
	f) user interface requirements implemented by software		N/A
	g) data definition and database requirements		N/A
	h) installation and acceptance requirements of the delivered MEDICAL DEVICE SOFTWARE at the operation and maintenance site or sites		N/A
	i) requirements related to methods of operation and maintenance		N/A
	j) requirements related to IT-network aspects		N/A
	k) user maintenance requirements		N/A
	l) regulatory requirements		N/A
5.2.3	[B, C] The MANUFACTURER includes RISK CONTROL measures implemented in software in the requirements as appropriate to the MEDICAL DEVICE SOFTWARE		N/A
5.2.4	[A, B, C] The MANUFACTURER re-EVALUATES the MEDICAL DEVICE RISK ANALYSIS when software requirements are established and update it as appropriate		N/A
5.2.5	[A, B, C] The MANUFACTURER ensures that existing requirements, including SYSTEM requirements, are re-EVALUATED and updated as appropriate as a result of the software requirements analysis ACTIVITY		N/A

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5.2.6	[A, B, C] The MANUFACTURER verifies and documents that the software requirements:		N/A
	a) implement SYSTEM requirements including those relating to RISK CONTROL		N/A
	b) do not contradict one another		N/A
	c) are expressed in terms that avoid ambiguity		N/A
	d) are stated in terms that permit establishment of test criteria and performance of tests		N/A
	e) can be uniquely identified		N/A
	f) are traceable to SYSTEM requirements or other source		N/A
<b>5.3</b>	<b>Software ARCHITECTURAL design</b>		N/A
5.3.1	[B, C] The MANUFACTURER transforms the requirements for the MEDICAL DEVICE SOFTWARE into a documented ARCHITECTURE that describes the software's structure and identifies the SOFTWARE ITEMS		N/A
5.3.2	[B, C] The MANUFACTURER develops and documents an ARCHITECTURE for the interfaces between the SOFTWARE ITEMS and the components external to the SOFTWARE ITEMS (both software and hardware), and between the SOFTWARE ITEMS		N/A
5.3.3	[B, C] If a SOFTWARE ITEM is identified as SOUP, the MANUFACTURER specifies functional and performance requirements for the SOUP item that are necessary for its intended use		N/A
5.3.4	[B, C] If a SOFTWARE ITEM is identified as SOUP, the MANUFACTURER specifies the SYSTEM hardware and software necessary to support the proper operation of the SOUP item		N/A
5.3.5	[C] The MANUFACTURER identifies any segregation between SOFTWARE ITEMS that is necessary for RISK CONTROL, and states how to ensure that such segregation is effective		N/A
5.3.6	[B, C] The MANUFACTURER verifies and documents that:		N/A
	a) the ARCHITECTURE of the software implements SYSTEM and software requirements including those relating to RISK CONTROL		N/A
	b) the software ARCHITECTURE is able to support interfaces between SOFTWARE ITEMS and between SOFTWARE ITEMS and hardware		N/A
	c) the MEDICAL DEVICE ARCHITECTURE supports proper operation of any SOUP items		N/A
<b>5.4</b>	<b>Software detailed design</b>		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.1	[B, C] The MANUFACTURER subdivides the software until it is represented by SOFTWARE UNITS		N/A
5.4.2	[C] The MANUFACTURER documents a design with enough detail to allow correct implementation of each SOFTWARE UNIT		N/A
5.4.3	[C] The MANUFACTURER documents a design for any interfaces between the SOFTWARE UNIT and external components (hardware or software), as well as any interfaces between SOFTWARE UNITS, detailed enough to implement each SOFTWARE UNIT and its interfaces correctly		N/A
5.4.4	[C] The MANUFACTURER verifies and documents that the software detailed design:		N/A
	a) implements the software ARCHITECTURE		N/A
	b) is free from contradiction with the software ARCHITECTURE		N/A
<b>5.5</b>	<b>SOFTWARE UNIT implementation</b>		N/A
5.5.1	[A, B, C] The MANUFACTURER implements each SOFTWARE UNIT		N/A
5.5.2	[B, C] The MANUFACTURER establishes strategies, methods and procedures for verifying the SOFTWARE UNITS		N/A
	Where VERIFICATION is done by testing, the test procedures are EVALUATED for adequacy		N/A
5.5.3	[B, C] The MANUFACTURER establishes acceptance criteria for SOFTWARE UNITS prior to integration into larger SOFTWARE ITEMS as appropriate, and ensures that SOFTWARE UNITS meet acceptance criteria		N/A
5.5.4	[C] When present in the design, the MANUFACTURER includes additional acceptance criteria as appropriate for:		N/A
	a) proper event sequence		N/A
	b) data and control flow		N/A
	c) planned resource allocation		N/A
	d) fault handling (error definition, isolation, and recovery)		N/A
	e) initialisation of variables		N/A
	f) self-diagnostics		N/A
	g) memory management and memory overflows		N/A
	h) boundary conditions		N/A
5.5.5	[B, C] The MANUFACTURER performs the SOFTWARE UNIT VERIFICATION and documents the results		N/A
<b>5.6</b>	<b>Software integration and integration testing</b>		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.6.1	[B, C] The MANUFACTURER integrates the SOFTWARE UNITS in accordance with the integration plan		N/A
5.6.2	[B, C] The MANUFACTURER verifies that the SOFTWARE UNITS have been integrated into SOFTWARE ITEMS and/or the SOFTWARE SYSTEM in accordance with the integration plan and retains records of the evidence of such verification		N/A
5.6.3	[B, C] The MANUFACTURER tests the integrated SOFTWARE ITEMS in accordance with the integration plan and documents the results		N/A
5.6.4	[B, C] For software integration testing, the MANUFACTURER addresses whether the integrated SOFTWARE ITEM performs as intended		N/A
5.6.5	[B, C] The MANUFACTURER EVALUATES the integration test procedures for adequacy		N/A
5.6.6	[B, C] When software items are integrated, the MANUFACTURER conducts REGRESSION TESTING appropriate to demonstrate that defects have not been introduced into previously integrated software		N/A
5.6.7	[B, C] The MANUFACTURER:		N/A
	a) documents the test result (pass/fail and a list of ANOMALIES)		N/A
	b) retains sufficient records to permit the test to be repeated		N/A
	c) identifies the tester		N/A
5.6.8	[B, C] The MANUFACTURER enters ANOMALIES found during software integration and integration testing into a software problem resolution PROCESS		N/A
<b>5.7</b>	<b>SOFTWARE SYSTEM testing</b>		N/A
5.7.1	[A, B, C] Establish tests for software requirements		—
	a) The MANUFACTURER establishes and performs a set of tests, expressed as input stimuli, expected outcomes, pass/fail criteria and procedures, for conducting SOFTWARE SYSTEM testing, such that all software requirements are covered		N/A
	b) The MANUFACTURER EVALUATES the adequacy of VERIFICATION strategies and test procedures.		N/A
5.7.2	[A, B, C] The MANUFACTURER enters ANOMALIES found during software system testing into a software problem resolution PROCESS		N/A
5.7.3	[A, B, C] When changes are made during SOFTWARE SYSTEM testing, the MANUFACTURER:		N/A



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	a) repeats tests, performs modified tests or performs additional tests, as appropriate, to verify the effectiveness of the change in correcting the problem		N/A
	b) conducts testing appropriate to demonstrate that unintended side effects have not been introduced		N/A
	c) performs relevant RISK MANAGEMENT ACTIVITIES as defined in 7.4		N/A
5.7.4	[A, B, C] Evaluate SOFTWARE SYSTEM testing		N/A
	The MANUFACTURER EVALUATES the appropriateness of VERIFICATION strategies and test procedures		N/A
	The MANUFACTURER verifies that:		
	a) all software requirements have been tested or otherwise VERIFIED		N/A
	b) the TRACEABILITY between software requirements and tests or other VERIFICATION is recorded		N/A
	c) test results meet the required pass/fail criteria		N/A
5.7.5.	[A, B, C] In order to support the repeatability of tests, the MANUFACTURER documents:		N/A
	a) a reference to test case procedures showing required actions and expected results		N/A
	b) the test result (pass/fail and a list of ANOMALIES)		N/A
	c) the version of software tested		N/A
	d) relevant hardware and software test configurations		N/A
	e) relevant test tools		N/A
	f) date tested		N/A
	g) the identity of the person responsible for executing the test and recording the test results		N/A
<b>5.8</b>	<b>Software RELEASE for utilization at a SYSTEM level</b>		N/A
5.8.1	[A, B, C] The MANUFACTURER ensures that all software VERIFICATION ACTIVITIES has been completed and the results EVALUATED before the software is released		N/A
5.8.2	[A, B, C] The MANUFACTURER documents all known residual ANOMALIES		N/A
5.8.3	[B, C] The MANUFACTURER ensured that all known residual ANOMALIES have been EVALUATED to ensure that they do not contribute to an unacceptable RISK		N/A
5.8.4	[A, B, C] The MANUFACTURER documented the VERSION of the MEDICAL DEVICE SOFTWARE that is being released		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.8.5	[B, C] The MANUFACTURER documents the procedure and environment used to create the released software		N/A
5.8.6	[B, C] The MANUFACTURER ensures that all software development plan (or maintenance plan) ACTIVITIES and TASKS are complete along with the associated documentation		N/A
5.8.7	[A, B, C] For at least a period of time determined as the longer of: the life time of the MEDICAL DEVICE SOFTWARE as defined by the MANUFACTURER or a time specified by relevant regulatory requirements, the MANUFACTURER archives:		N/A
	a) the MEDICAL DEVICE SOFTWARE and CONFIGURATION ITEMS		N/A
	b) the documentation		N/A
5.8.8	[A, B, C] The MANUFACTURER establishes procedures to ensure that the released MEDICAL DEVICE SOFTWARE can be reliably delivered to the point of use without corruption or unauthorised change		N/A
	These procedures address the production and handling of media containing the MEDICAL DEVICE SOFTWARE including as appropriate:		N/A
	– replication		N/A
	– media labelling		N/A
	– packaging		N/A
	– protection		N/A
	– storage		N/A
	– delivery		N/A

<b>7</b>	<b>SOFTWARE RISK MANAGEMENT PROCESS</b>		<b>—</b>
<b>7.1</b>	<b>Analysis of software contributing to hazardous situations</b>		<b>—</b>
7.1.1	[B, C] The MANUFACTURER identifies SOFTWARE ITEMS that could contribute to a hazardous situation identified in the MEDICAL DEVICE RISK ANALYSIS ACTIVITY of ISO 14971		N/A
7.1.2	[B, C] The MANUFACTURER identifies potential causes of the SOFTWARE ITEM identified above contributing to a hazardous situation		N/A
	The MANUFACTURER considers potential causes including, as appropriate:		N/A
	a) incorrect or incomplete specification of functionality		N/A
	b) software defects in the identified SOFTWARE ITEM functionality		N/A
	c) failure or unexpected results from SOUP		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	d) hardware failures or other software defects that could result in unpredictable software operation		N/A
	e) reasonably foreseeable misuse		N/A
7.1.3	[B, C] If failure or unexpected results from SOUP is a potential cause of the SOFTWARE ITEM contributing to a hazardous situation, the MANUFACTURER EVALUATES as a minimum any ANOMALY list published by the supplier of the SOUP item relevant to the VERSION of the SOUP item used in the MEDICAL DEVICE to determine if any of the known ANOMALIES result in a sequence of events that could result in a hazardous situation		N/A
7.1.4	[B, C] The MANUFACTURER documents in the RISK MANAGEMENT FILE potential causes of the SOFTWARE ITEM contributing to a hazardous situation		N/A
<b>7.2</b>	<b>RISK CONTROL measures</b>		—
7.2.1	[B, C] For each case documented in the RISK MANAGEMENT FILE where a SOFTWARE ITEM could contribute to a HAZARDOUS SITUATION, the MANUFACTURER defines and documents RISK CONTROL measures in accordance with ISO 14971		N/A
7.2.2	[B, C] If a RISK CONTROL measure is implemented as part of the functions of a SOFTWARE ITEM, the MANUFACTURER:		N/A
	a) includes the RISK CONTROL measure in the software requirements		N/A
	b) assigns to each SOFTWARE ITEM that contributes to the implementation of a RISK CONTROL measure a software safety class based on the RISK that the RISK CONTROL measure is controlling		N/A
	c) develops the SOFTWARE ITEM in accordance with Clause 5		N/A
<b>7.3</b>	<b>VERIFICATION of RISK CONTROL measures</b>		—
7.3.1	[B, C] The implementation of each RISK CONTROL measure documented in 7.2 is VERIFIED, and this VERIFICATION is documented		N/A
	The MANUFACTURER reviews the RISK CONTROL measure and determines if it could result in a new HAZARDOUS SITUATION		N/A
7.3.3	[B, C] The MANUFACTURER documents TRACEABILITY of software HAZARDS as appropriate:		N/A
	a) from the hazardous situation to the SOFTWARE ITEM		N/A
	b) from the SOFTWARE ITEM to the specific software cause		N/A

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	c) from the software cause to the RISK CONTROL measure		N/A
	d) from the RISK CONTROL measure to the VERIFICATION of the RISK CONTROL measure		N/A
<b>7.4</b>	<b>RISK MANAGEMENT of software changes</b>		—
7.4.1	[A, B, C] The MANUFACTURER analyses changes to the MEDICAL DEVICE SOFTWARE (including SOUP) to determine whether:		N/A
	a) additional potential causes are introduced contributing to a hazardous situation		N/A
	b) additional software RISK CONTROL measures are required		N/A
7.4.2	[B, C] The MANUFACTURER analyses changes to the software, including changes to SOUP, to determine whether the software modification could interfere with existing RISK CONTROL measures		N/A
7.4.3	[B, C] The MANUFACTURER performs relevant RISK MANAGEMENT ACTIVITIES defined in 7.1, 7.2 and 7.3 based on these analyses		N/A

<b>8</b>	<b>SOFTWARE CONFIGURATION MANAGEMENT PROCESS</b>		—
<b>8.1</b>	<b>Configuration identification</b>		—
8.1.1	[A, B, C] The MANUFACTURER establishes a scheme for the unique identification of CONFIGURATION ITEMS and their VERSIONS to be controlled according to the development and configuration planning specified in 5.1		N/A
8.1.2	[A, B, C] For each SOUP CONFIGURATION ITEM being used, including standard libraries, the MANUFACTURER documents:		N/A
	a) the title		N/A
	b) the MANUFACTURER		N/A
	c) the unique SOUP designator		N/A
8.1.3	[A, B, C] The MANUFACTURER documents the set of CONFIGURATION ITEMS and their VERSIONS that comprise the SOFTWARE SYSTEM configuration		N/A
<b>8.2</b>	<b>Change control</b>		—
8.2.1	[A, B, C] The MANUFACTURER changes CONFIGURATION ITEMS identified to be controlled according to 8.1 only in response to an approved CHANGE REQUEST		N/A
8.2.2	[A, B, C] The MANUFACTURER implements the change as specified in the CHANGE REQUEST		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	The MANUFACTURER identifies and performs any ACTIVITY that needs to be repeated as a result of the change, including changes to the software safety classification of SOFTWARE SYSTEMS and SOFTWARE ITEMS		N/A
8.2.3	[A, B, C] The MANUFACTURER verifies the change, including repeating any VERIFICATION that has been invalidated by the change and taking into account 5.7.3 and 9.7		N/A
8.2.4	[A, B, C] The MANUFACTURER maintains records of the relationships and dependencies between:		N/A
	a) CHANGE REQUEST		N/A
	b) relevant PROBLEM REPORT		N/A
	c) approval of the CHANGE REQUEST		N/A
8.3	[A, B, C] The MANUFACTURER retains retrievable records of the history of controlled CONFIGURATION ITEMS including SYSTEM configuration		N/A

<b>9</b>	<b>SOFTWARE PROBLEM RESOLUTION PROCESS</b>		<b>—</b>
9.1	[A, B, C] The MANUFACTURER prepares a PROBLEM REPORT for each problem detected in the MEDICAL DEVICE SOFTWARE		N/A
	PROBLEM REPORTS include a statement of criticality (for example, effect on performance, SAFETY, or SECURITY) as well as other information that may aid in the resolution of the problem (for example, devices affected, supported accessories affected)		N/A
9.2	[A, B, C] The MANUFACTURER:		N/A
	a) investigates the problem and if possible identify the causes		N/A
	b) EVALUATES the problem's relevance to SAFETY using the software RISK MANAGEMENT PROCESS		N/A
	c) documents the outcome of the investigation and evaluation		N/A
	d) creates a CHANGE REQUEST(S) for actions needed to correct the problem, or document the rationale for taking no action		N/A
9.3	[A, B, C] The MANUFACTURER advises relevant parties of the existence of the problem, as appropriate		N/A
9.4	[A, B, C] The MANUFACTURER approves and implements all CHANGE REQUESTS, observing the requirements of the change control PROCESS		N/A

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
9.5	[A, B, C] The MANUFACTURER maintains records of PROBLEM REPORTS and their resolution including their VERIFICATION		N/A
	The MANUFACTURER updates the RISK MANAGEMENT FILE as appropriate		N/A
9.6	[A, B, C] The MANUFACTURER performs analysis to detect trends in PROBLEM REPORTS		N/A
9.7	[A, B, C] The MANUFACTURER verifies resolutions to determine whether:		N/A
	a) problem has been resolved and the PROBLEM REPORT has been closed		N/A
	b) adverse trends have been reversed		N/A
	c) CHANGE REQUESTS have been implemented in the appropriate MEDICAL DEVICE SOFTWARE and ACTIVITIES		N/A
	d) additional problems have been introduced		N/A
9.8	[A, B, C] When testing, retesting or REGRESSION TESTING SOFTWARE ITEMS and SYSTEMS following a change, the MANUFACTURER includes in the test documentation:		N/A
	a) test results		N/A
	b) ANOMALIES found		N/A
	c) the VERSION of software tested		N/A
	d) relevant hardware and software test configurations		N/A
	e) relevant test tools		N/A
	f) date tested		N/A
	g) identification of the tester		N/A

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict

Attachment	Software - Mapping of required evidence and manufacturer documents			N/A
Standard Clause	Deliverables	Title	Revision #	Date
4.3	Software safety classification document			
4.3	Specification of risk control measures external to software system			
4.3	Rationale of classification for decomposed software system			
4.4.2	Risk management activities for legacy software			
4.4.3	Gap analysis for legacy software			
4.4.4	Gap closure plan for legacy software			
4.4.5	Rationale for use of legacy software			
5.1.1	Software development plan			
5.1.3	Software requirements reference to software design and development document			
5.1.4	Development standards, methods and tools records for class C software			
5.1.5	Software integration and integration testing plan			
5.1.6	Software verification plan			
5.1.7	Software risk management plan			
5.1.8	Document management procedures			
5.1.9	Software configuration management procedures			
5.2	Software system requirements specification			
5.2.3	Specification of risk control measure implemented in software			
5.3	Software system architecture design specification			
5.3	Software item architecture design specification			

IEC 60601-1				
Clause	Requirement + Test		Result - Remark	Verdict
Attachment	Software - Mapping of required evidence and manufacturer documents			N/A
Standard Clause	Deliverables	Title	Revision #	Date
5.4	Software item detailed design specification			
5.4	Software unit detailed design specification			
5.5.1	Software unit implementation records			
5.5.2	Software unit verification process			
5.5.3	Software unit acceptance criteria			
5.5.5	Software unit verification records			
5.6.1	Software unit integration process			
5.6.2	Software unit integration records			
5.6.4	Software unit integration testing records			
5.6.5	Evaluation of software unit integration test			
5.6.6	Software unit regression testing process			
5.6.7	Software unit regression testing records			
5.6.8	Software problem resolution process			
5.7	Software system testing process			
5.7	Software system testing records			
5.8	Software system release process			
5.8	Software system release record			
5.8	Statement of known residual anomalies			
7.1	Software hazard analysis process			
7.1	SOUP anomaly lists			
7.2	Risk control process			
7.3	Risk control verification process			
7.4	Risk management of software change process			
8.1	Configuration identification record			
8.2	Change control process			



IEC 60601-1				
Clause	Requirement + Test		Result - Remark	Verdict
<b>Attachment</b>	<b>Software - Mapping of required evidence and manufacturer documents</b>			<b>N/A</b>
Standard Clause	Deliverables	Title	Revision #	Date
8.2	Records for traceability of change			
9	Software problem resolution process			
9	Software problem resolution records			
<b>Supplementary information:</b>				

**Attachment 1: Photo of EUT**



External view for GTM96600 series



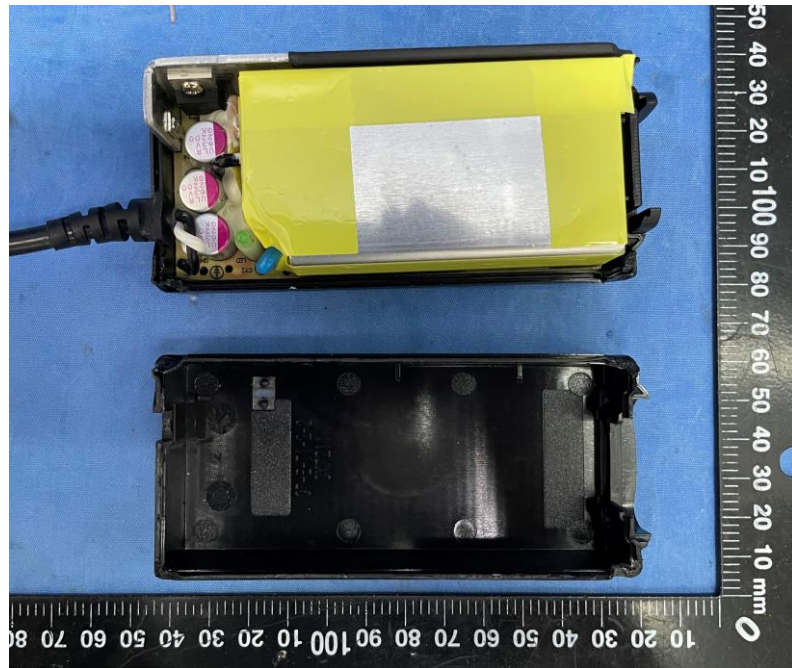
External view for GTM96600 series



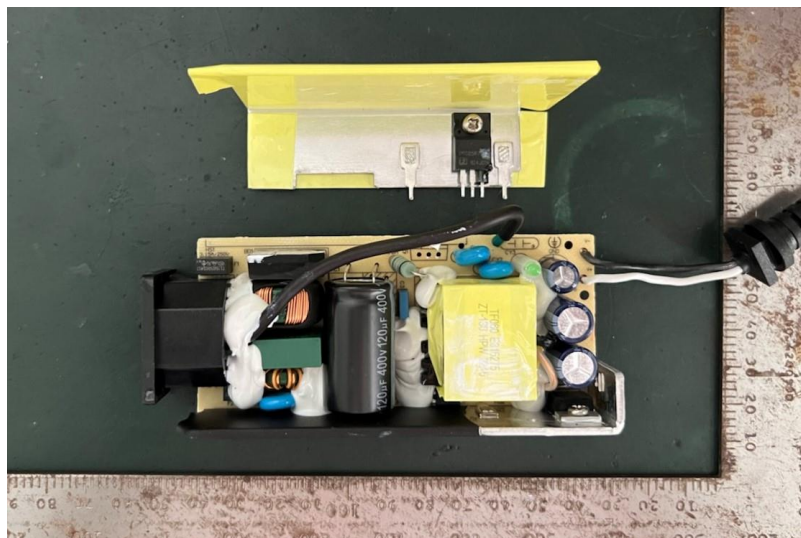
External view for GTM96600 series



External view for GTM96600 series



Internal view for GTM96600 series (Class I)

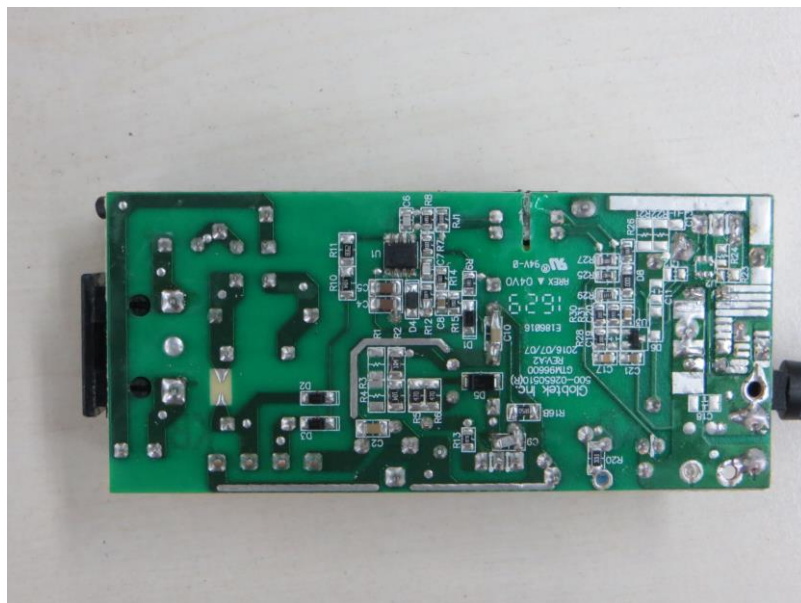


Internal view for GTM96600 series (Class I)

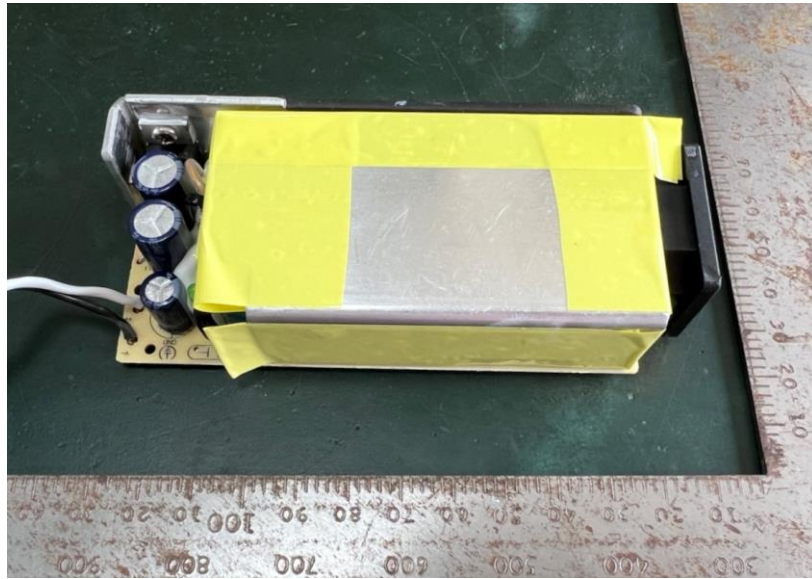




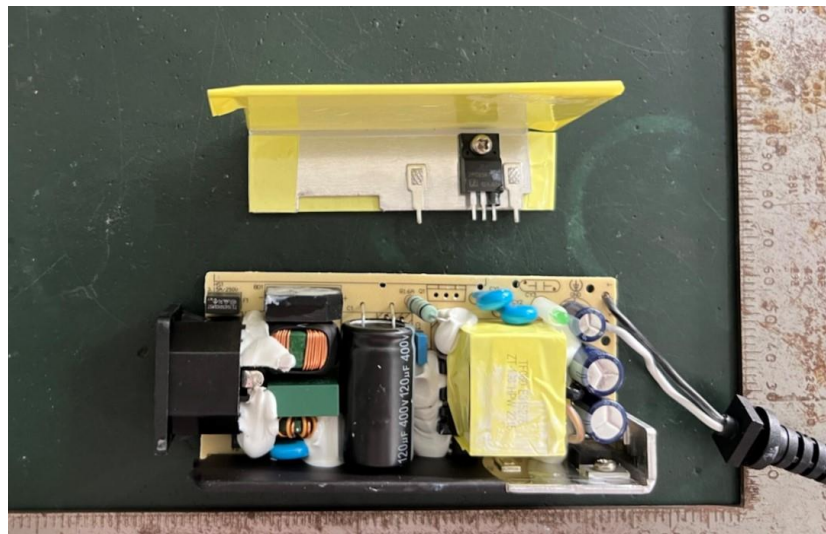
Internal view for GTM96600 series (Class I)



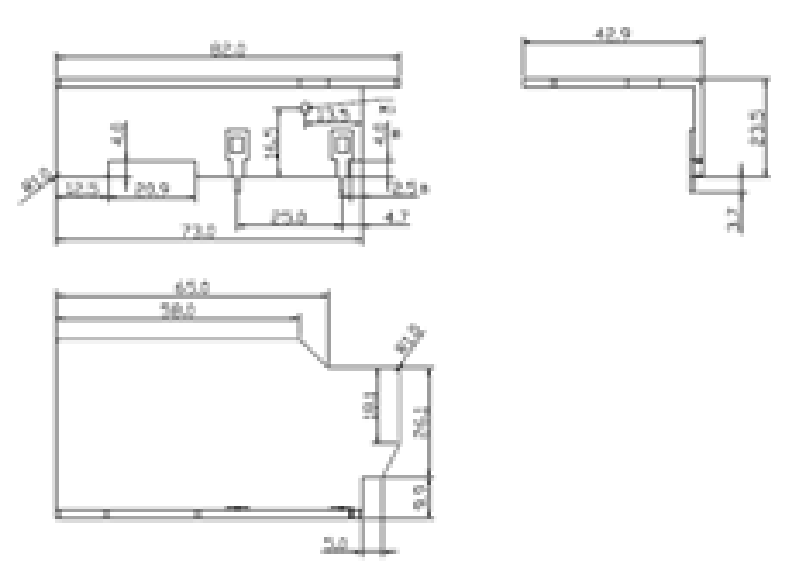
PCB (Class I )



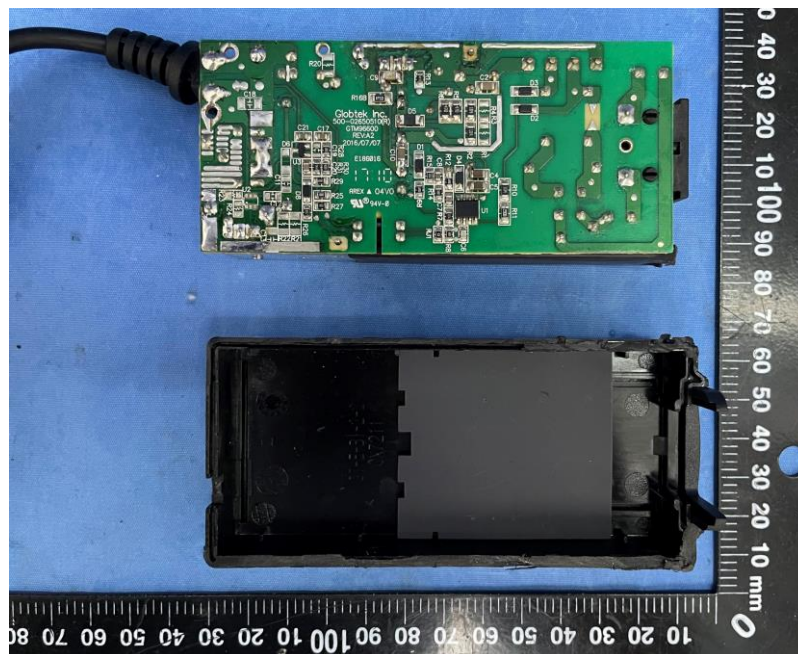
Internal view for GTM96600 series (Class II)



Internal view for GTM96600 series (Class II)

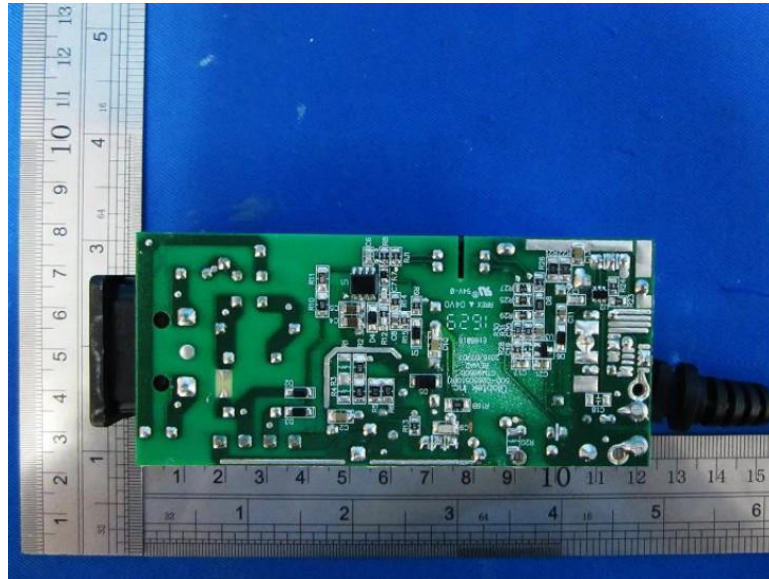


HS1 drawing for GTM96600 series



Internal view for GTM96600 series (Class II)





PCB (Class II)

**Photos of GT\*91099-\*\*\*-T\***

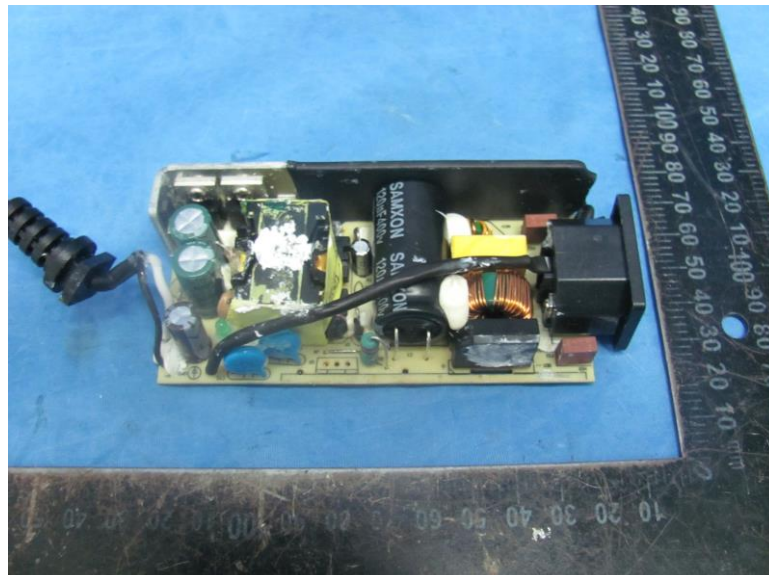


**For Class I**

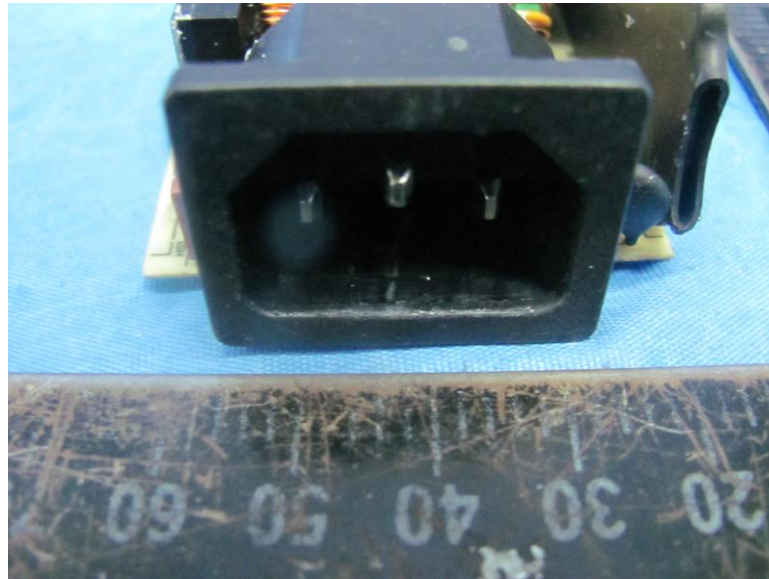




**For Class I**



**For Class I**



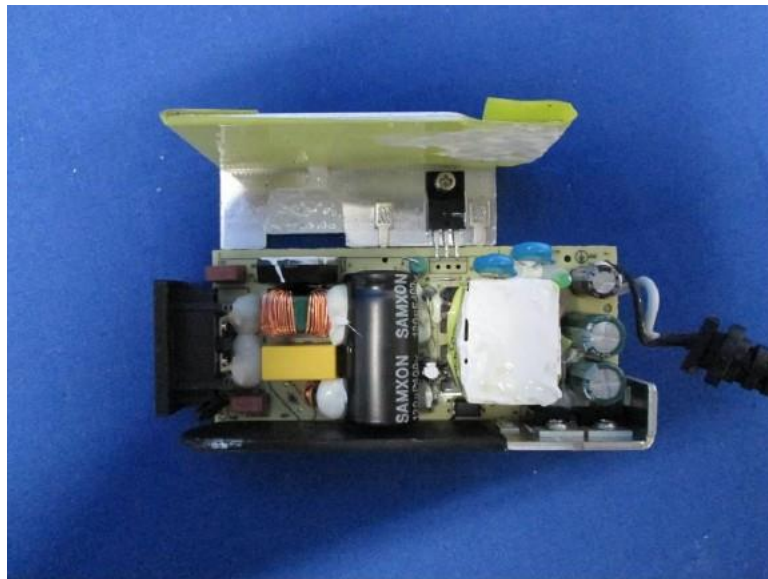
**For Class I**



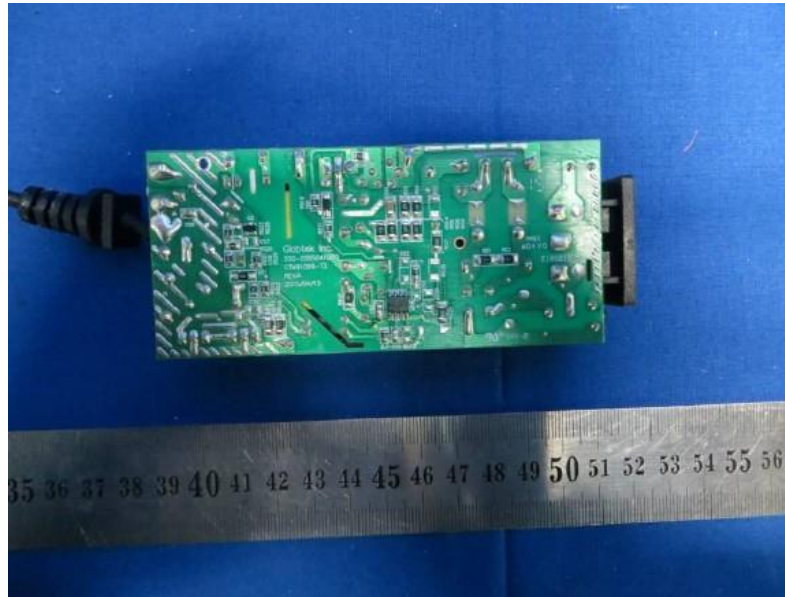
**For Class II**



**For Class II**



**For Class II**



**For Class II**



**For Class I and Class II**





**For Class I and Class II**



**For Class I and Class II**



**For Class I and Class II**



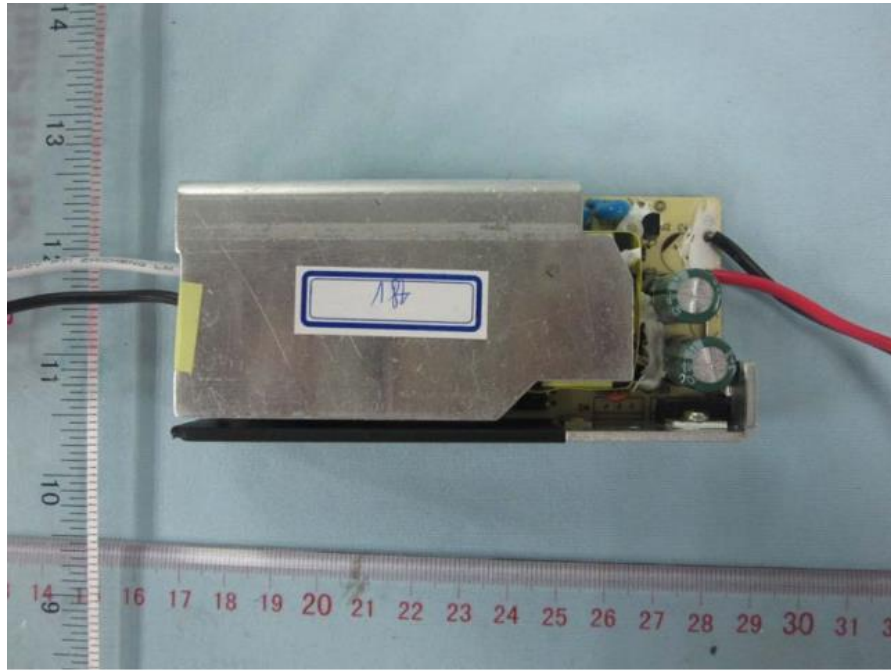
PCB (without DZ3, R2, DZ4, RS30, CS2)



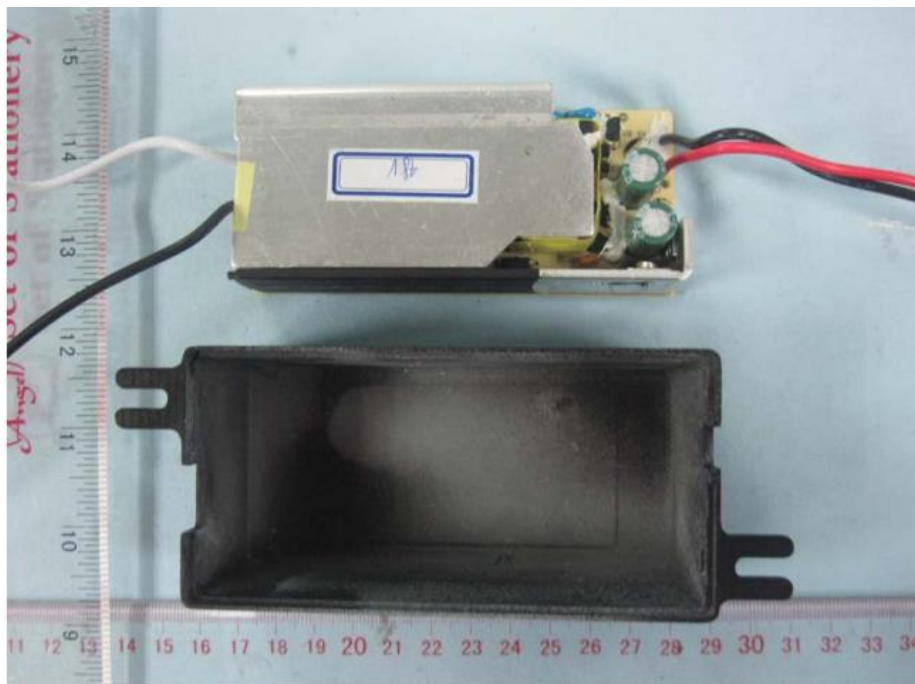
Encapsulated type



Encapsulated type

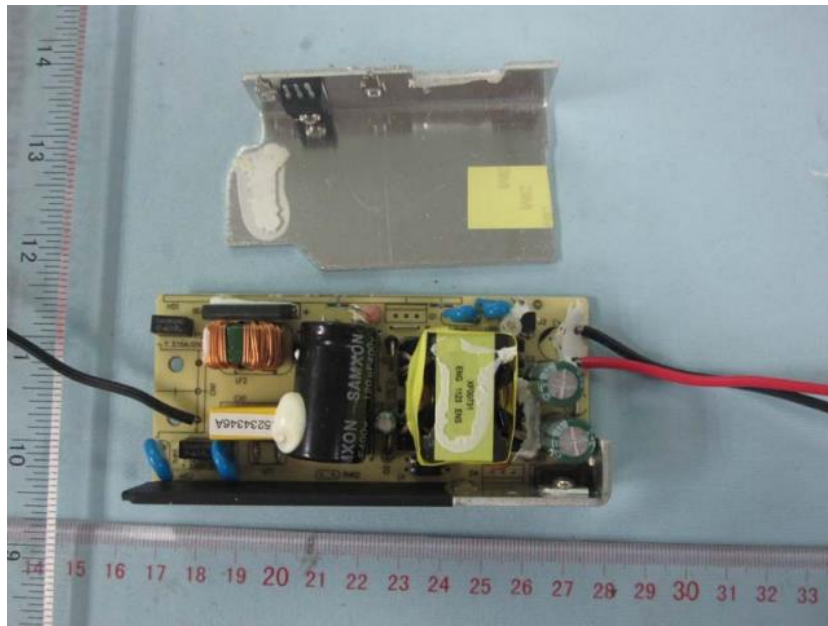


Class II power unit for Encapsulated type

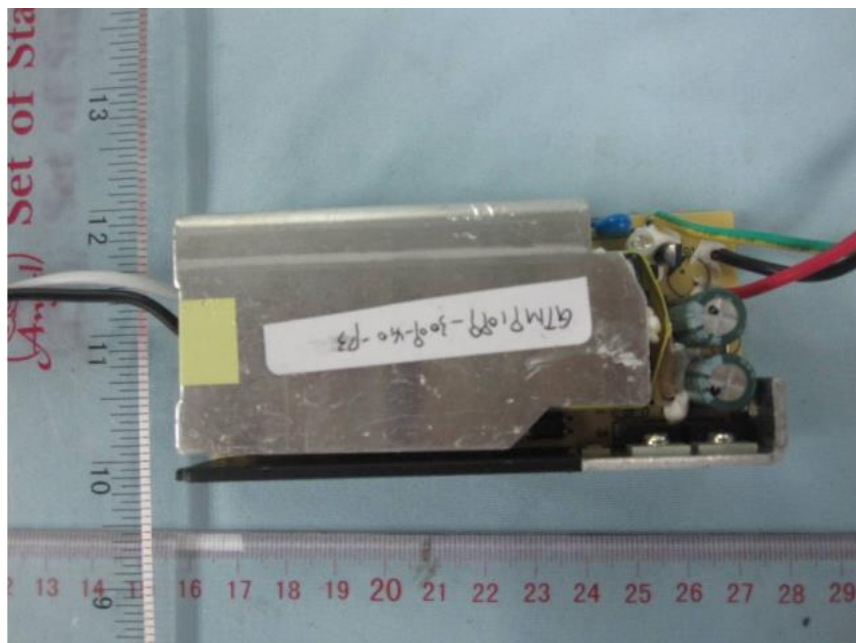


Power unit and enclosure for Encapsulated type

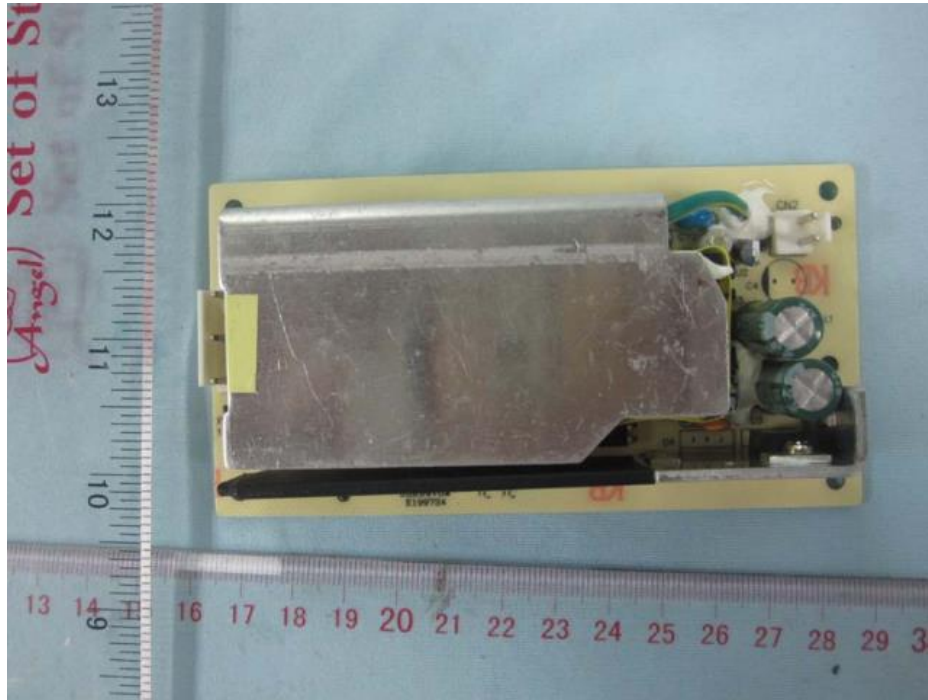




Component side



Class I power unit for Encapsolated type



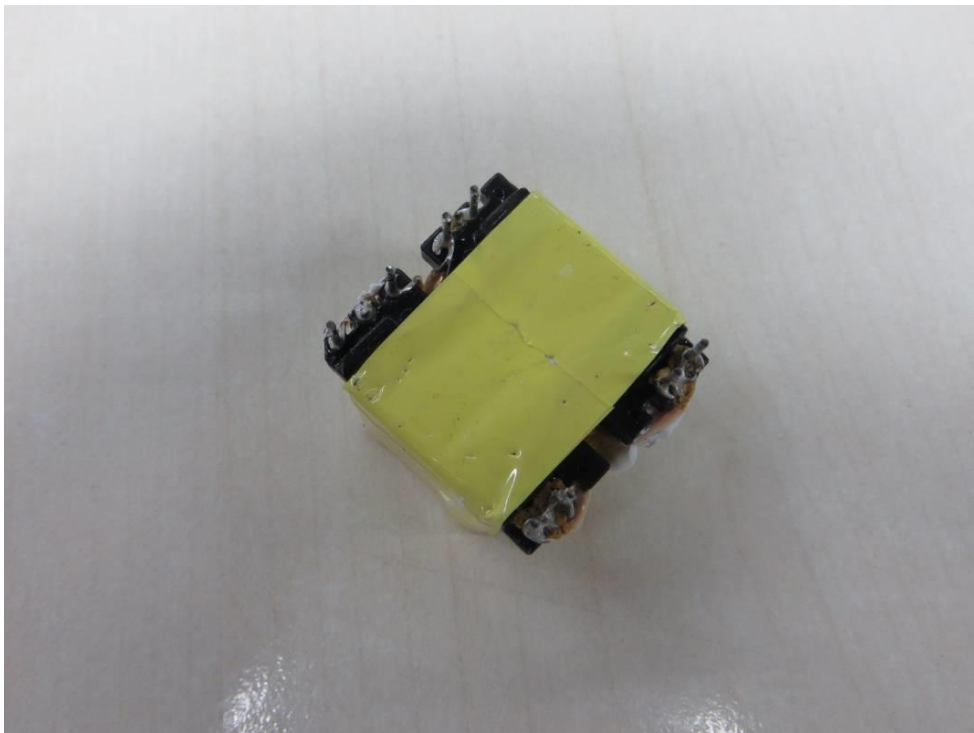
Class I open frame type



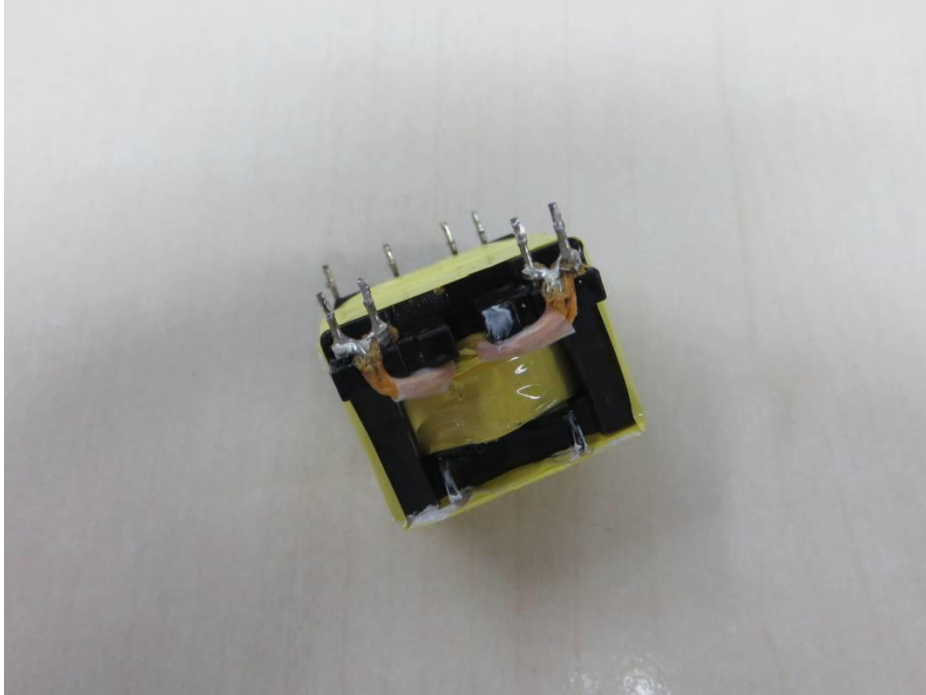
Class II open frame type



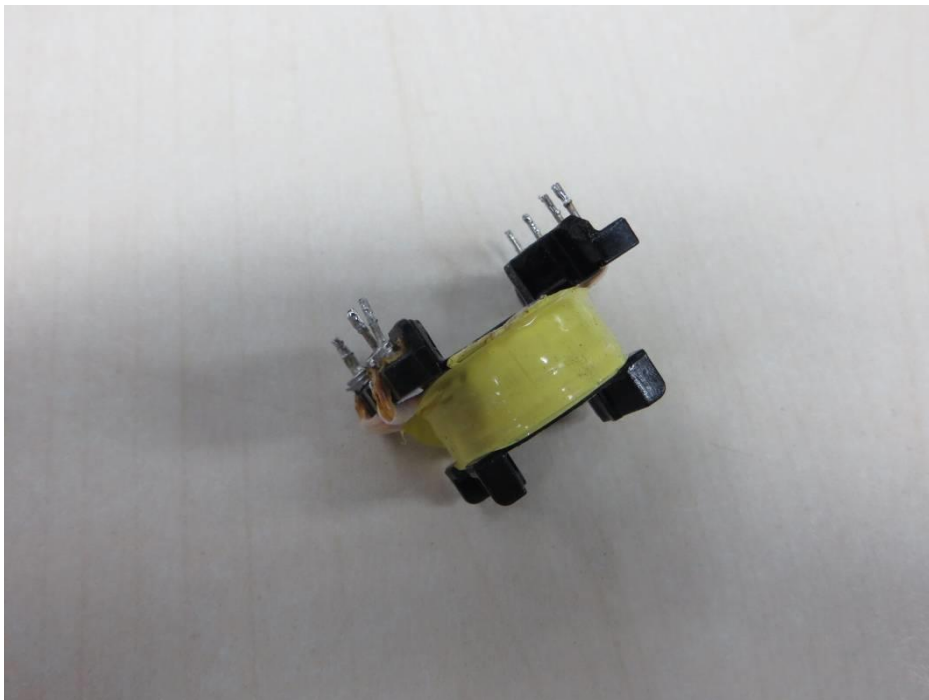
Transformer for GT\*91099 series



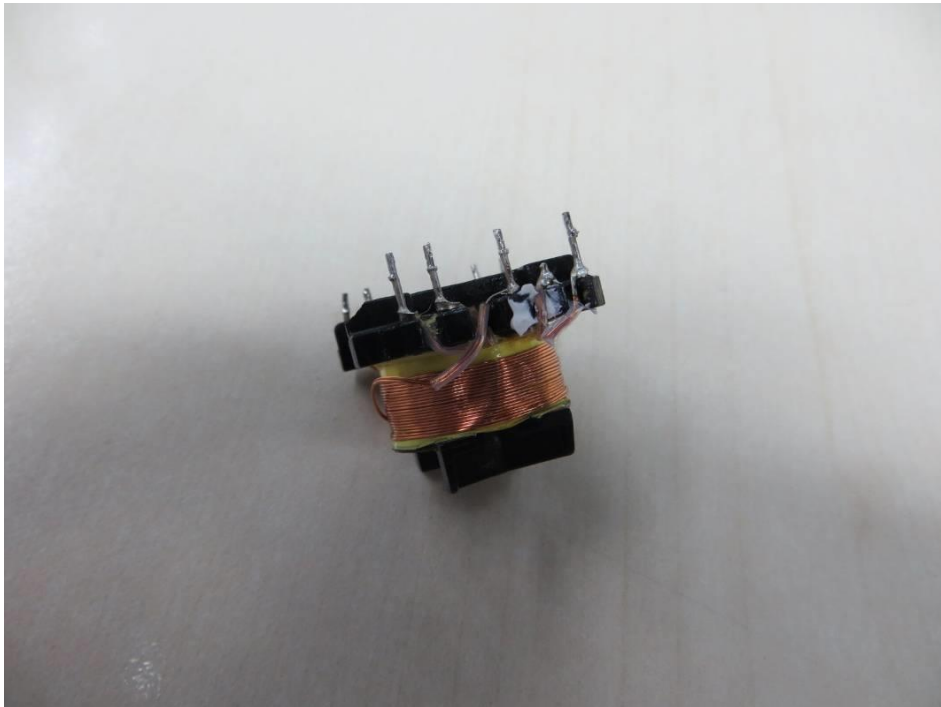
Transformer for GT\*91099 series



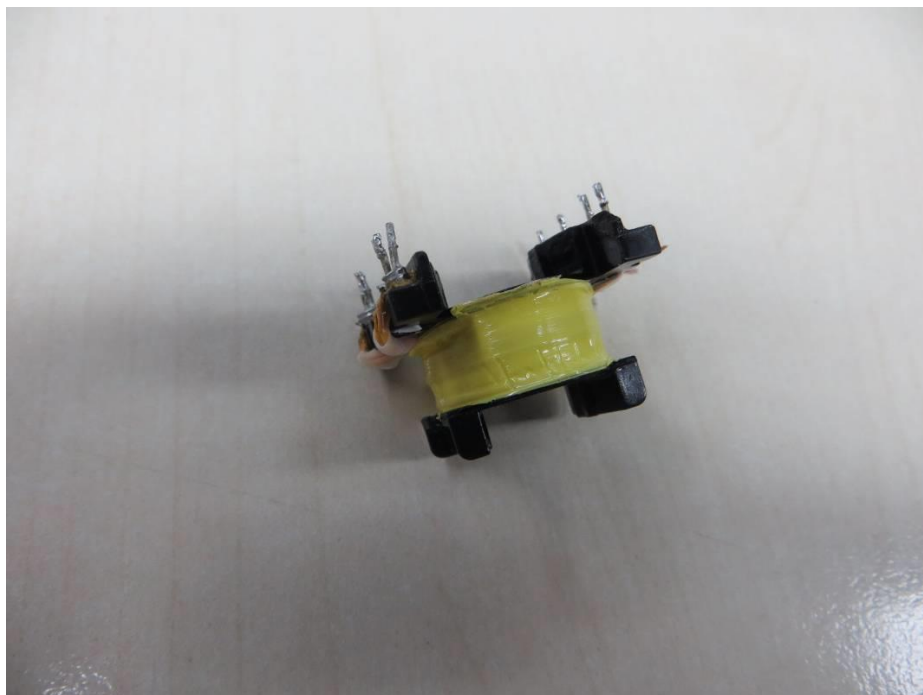
Transformer for GT\*91099 series



Transformer for GT\*91099 series

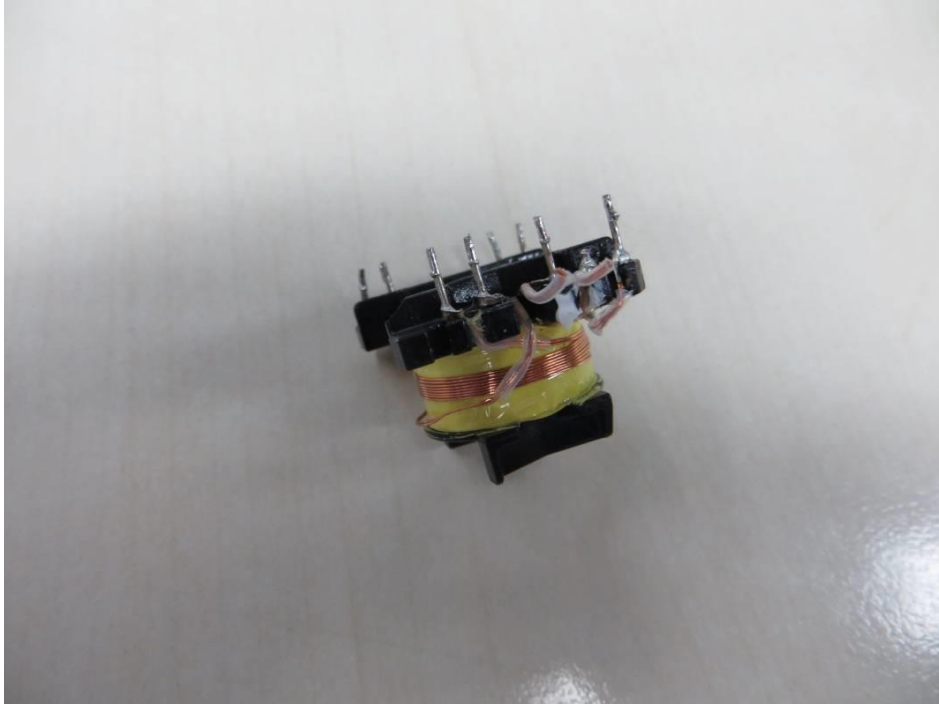


Transformer for GT\*91099 series

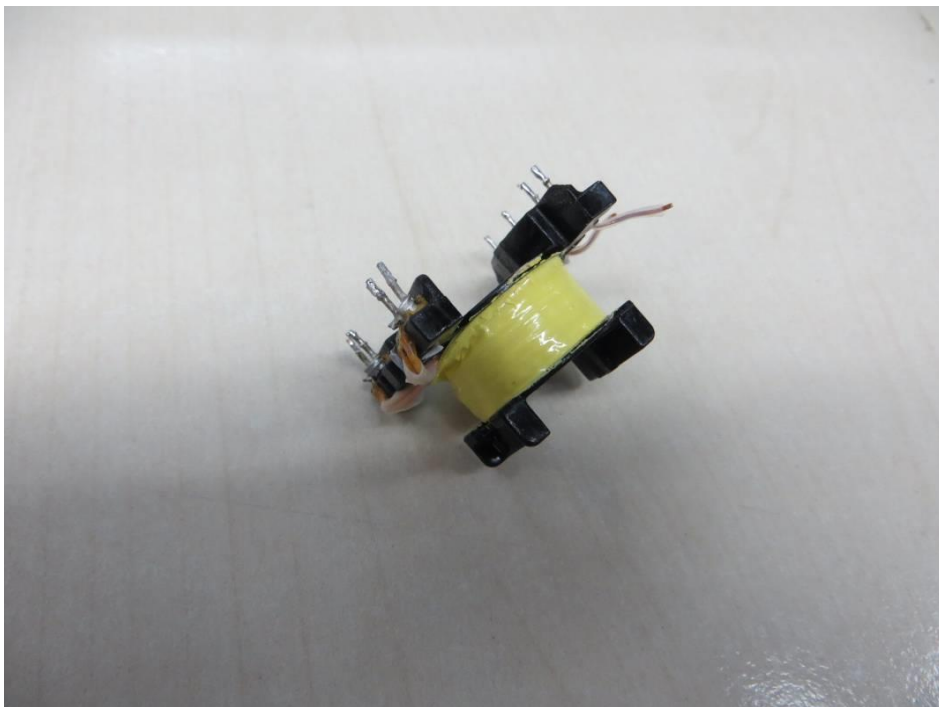


Transformer for GT\*91099 series





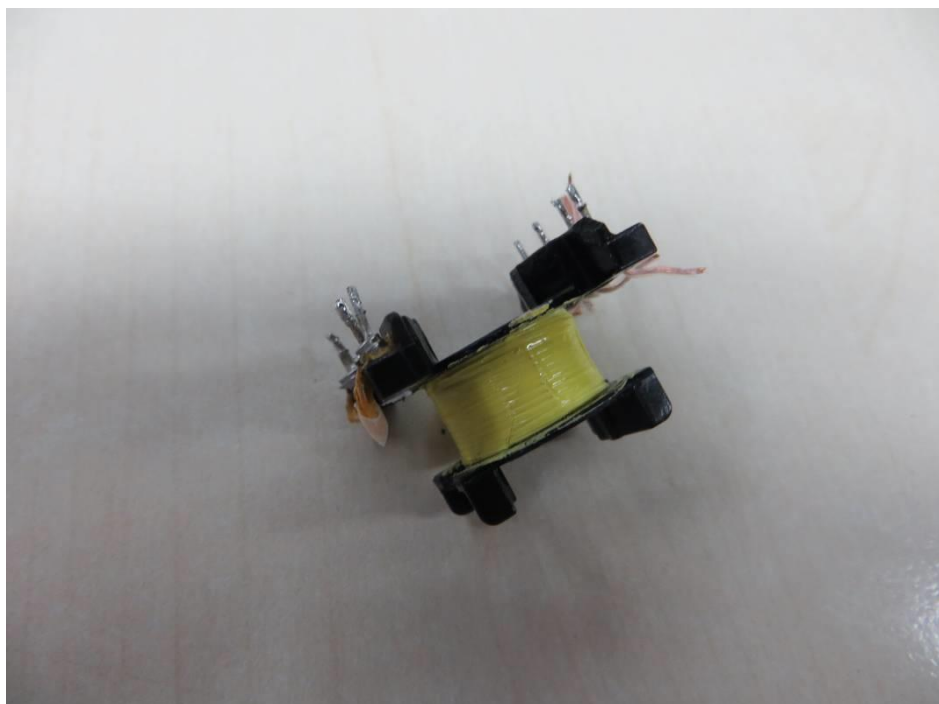
Transformer for GT\*91099 series



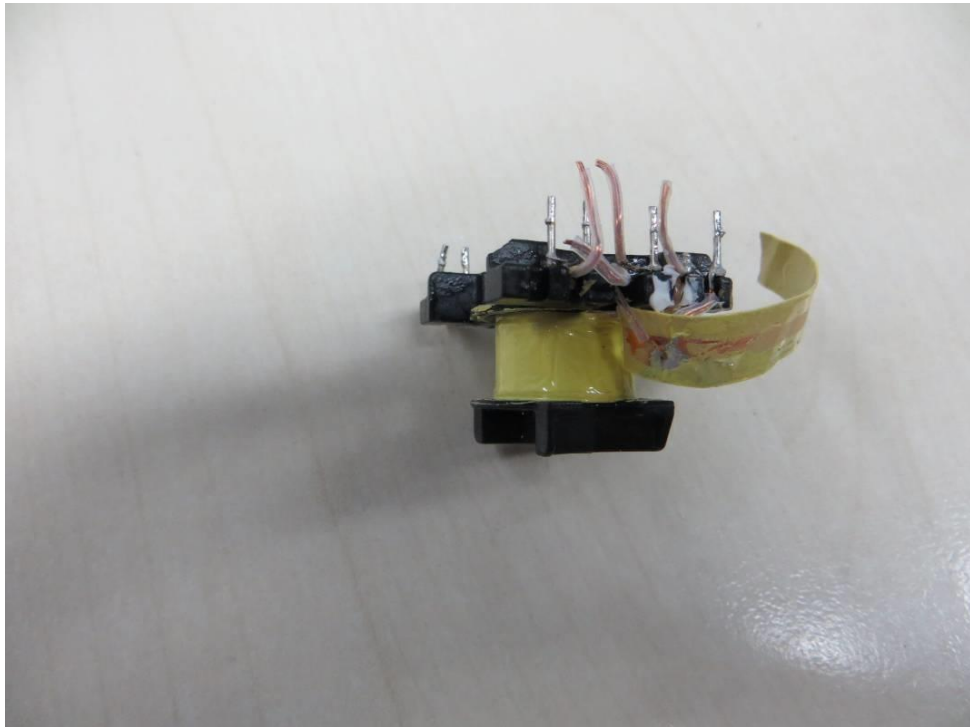
Transformer for GT\*91099 series



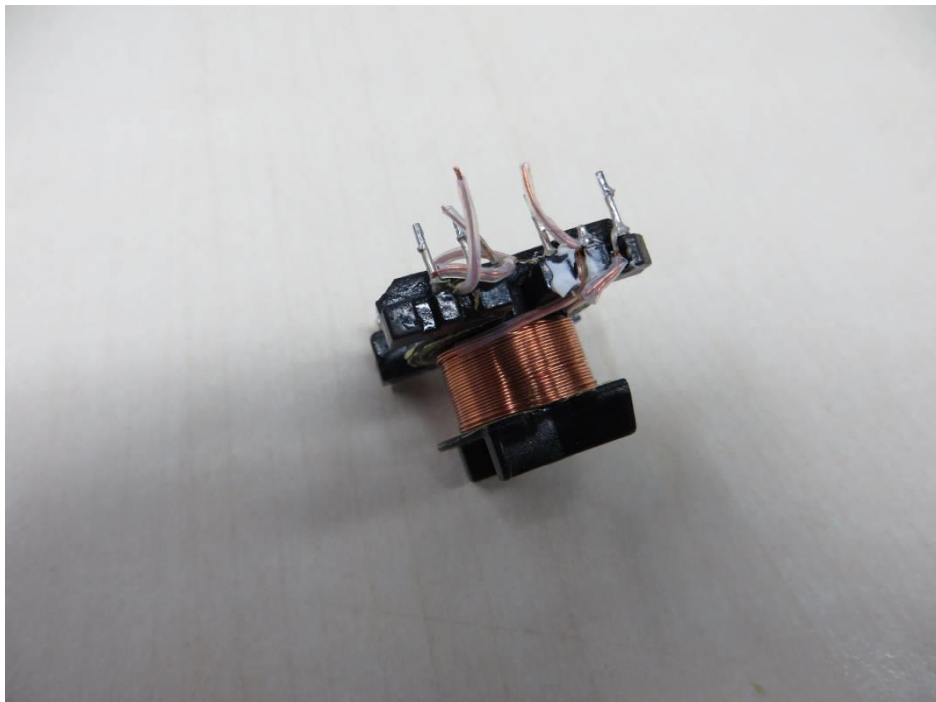
Transformer for GT\*91099 series



Transformer for GT\*91099 series

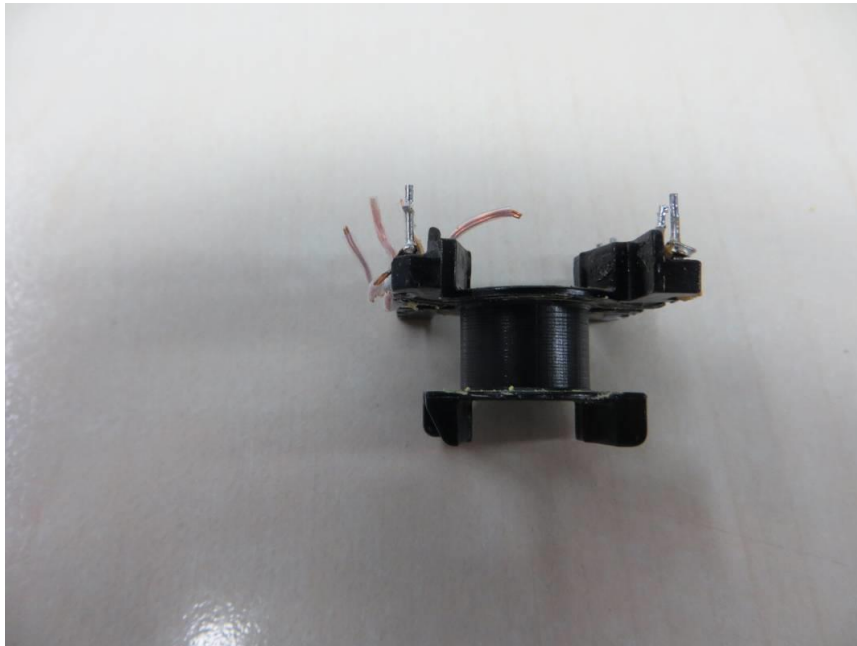


Transformer for GT\*91099 series



Transformer for GT\*91099 series

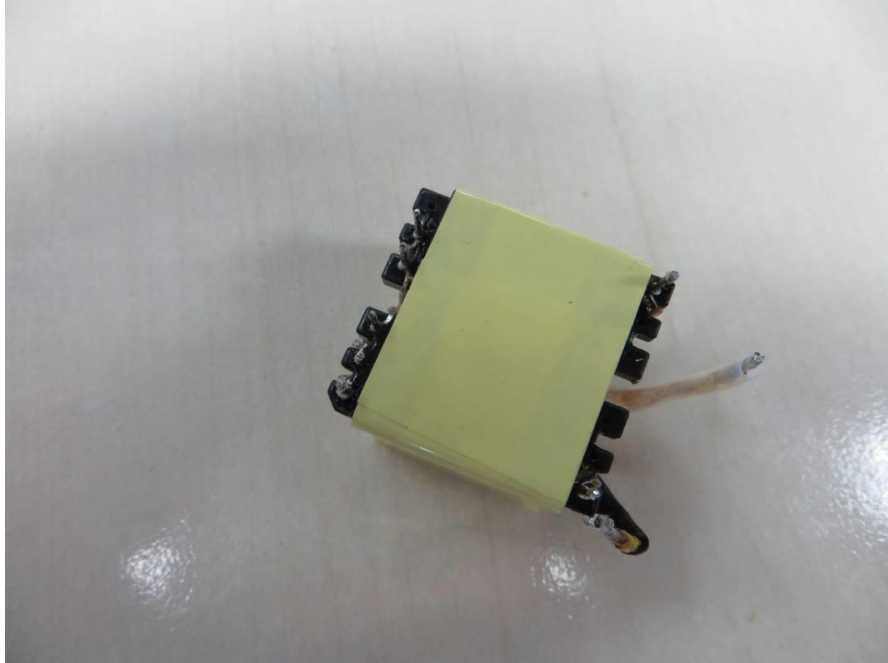




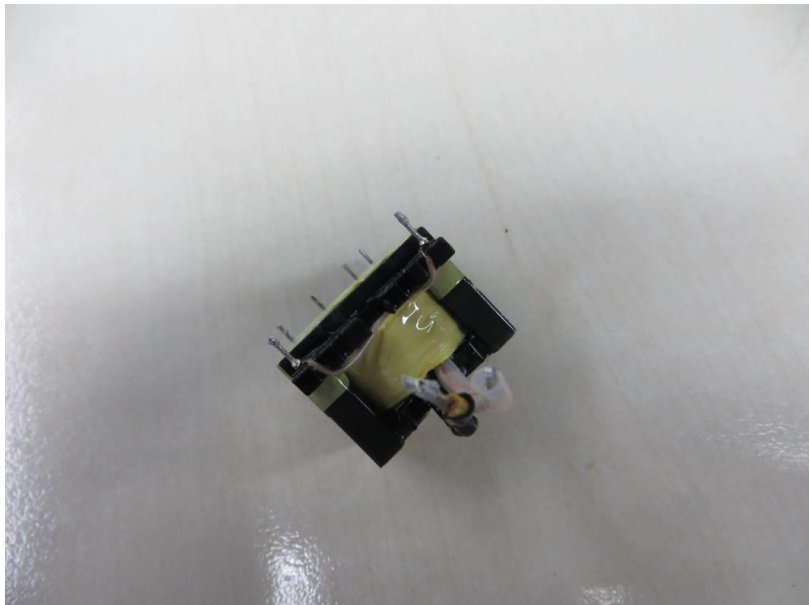
Transformer for GT\*91099 series



Transformer for GT\*96600 series



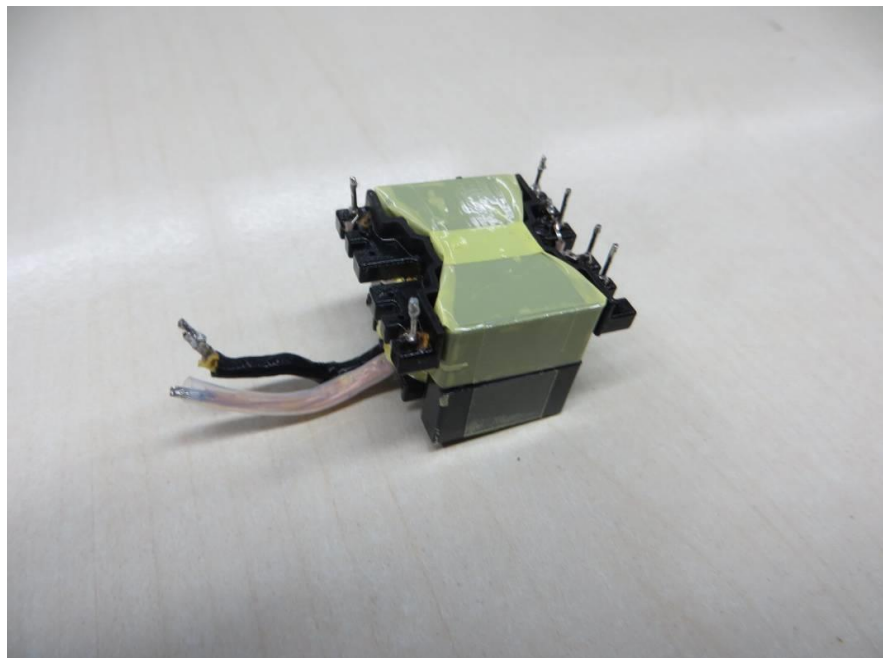
Transformer for GT\*96600 series



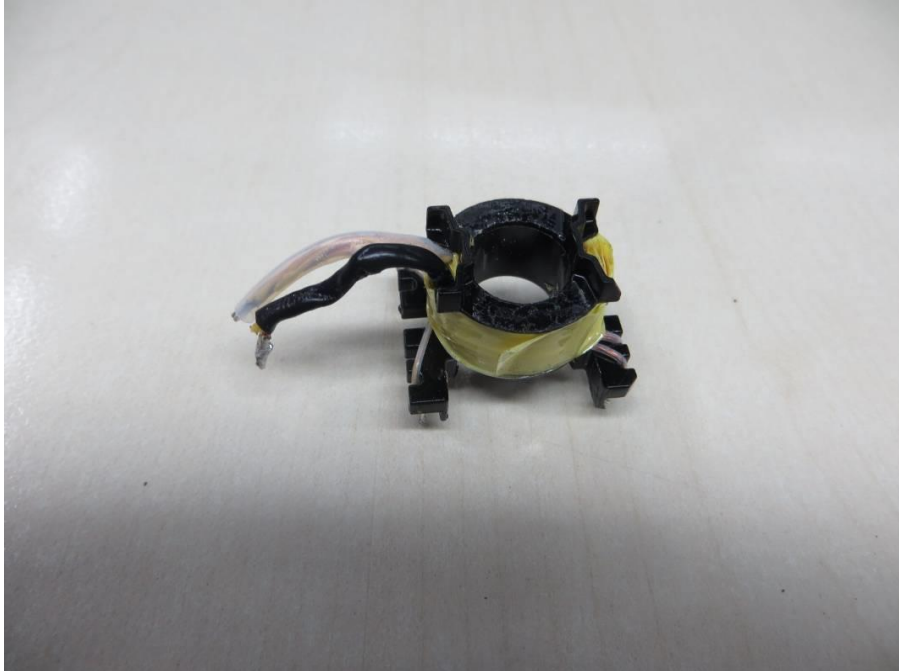
Transformer for GT\*96600 series



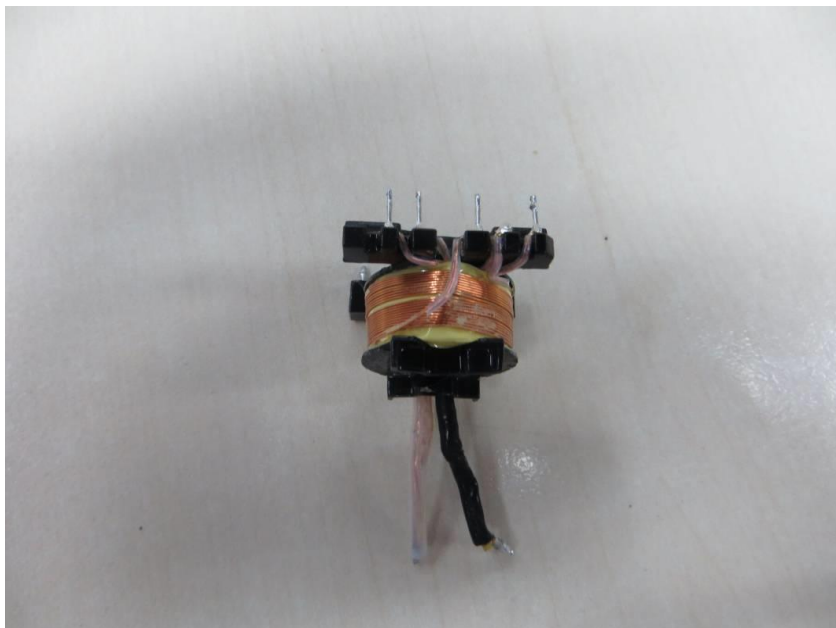
Transformer for GT\*96600 series



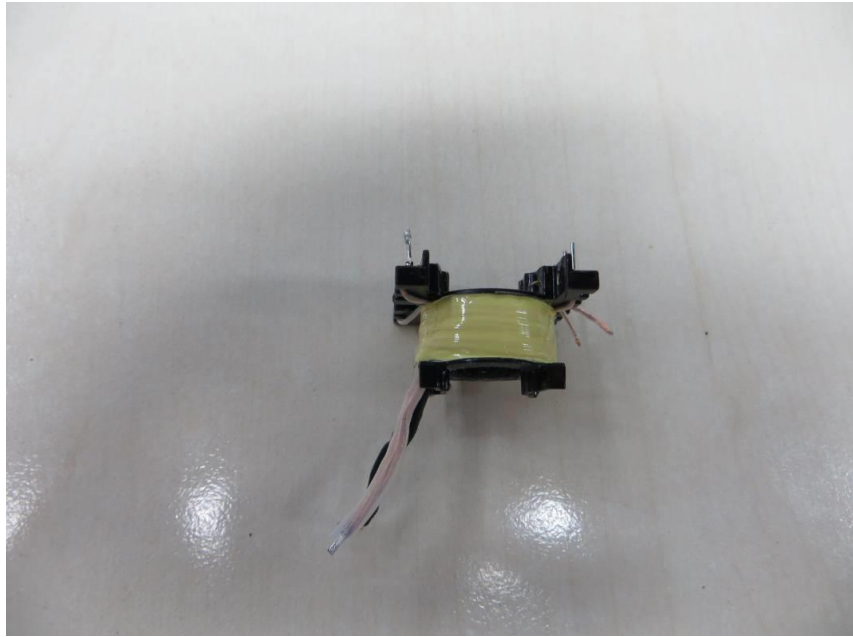
Transformer for GT\*96600 series



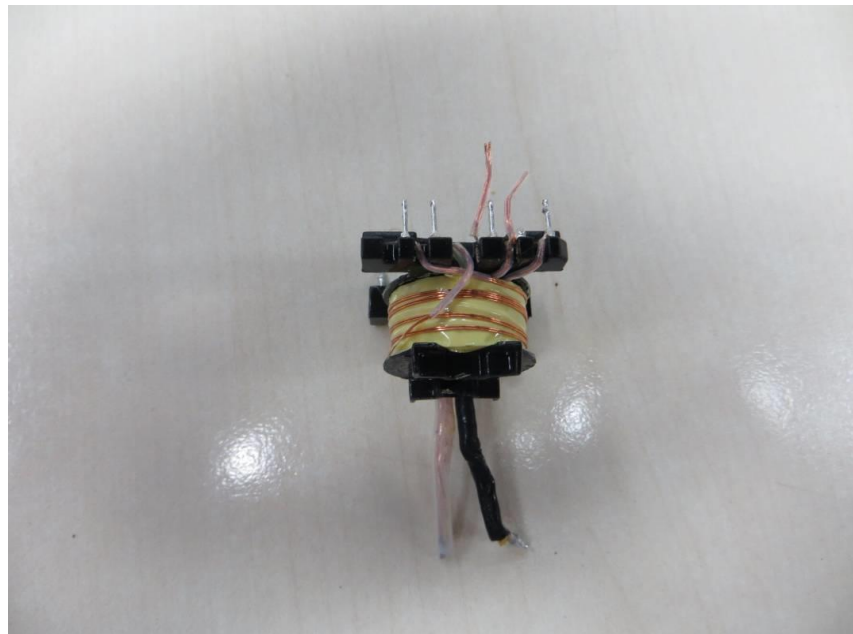
Transformer for GT\*96600 series



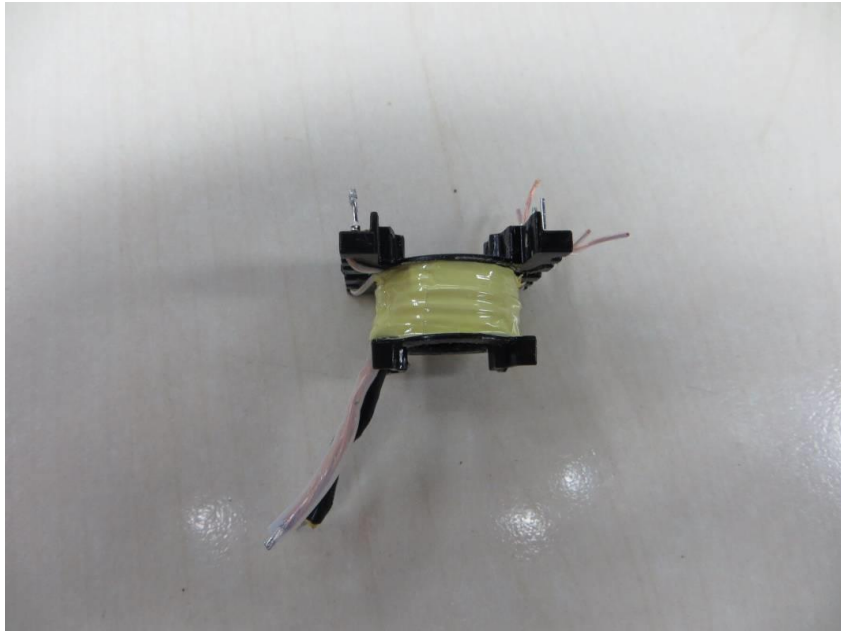
Transformer for GT\*96600 series



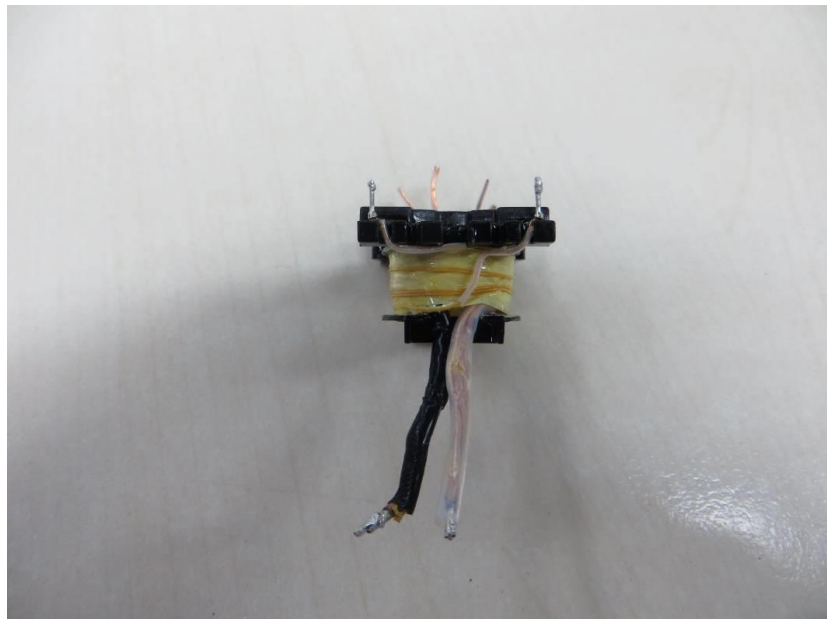
Transformer for GT\*96600 series



Transformer for GT\*96600 series

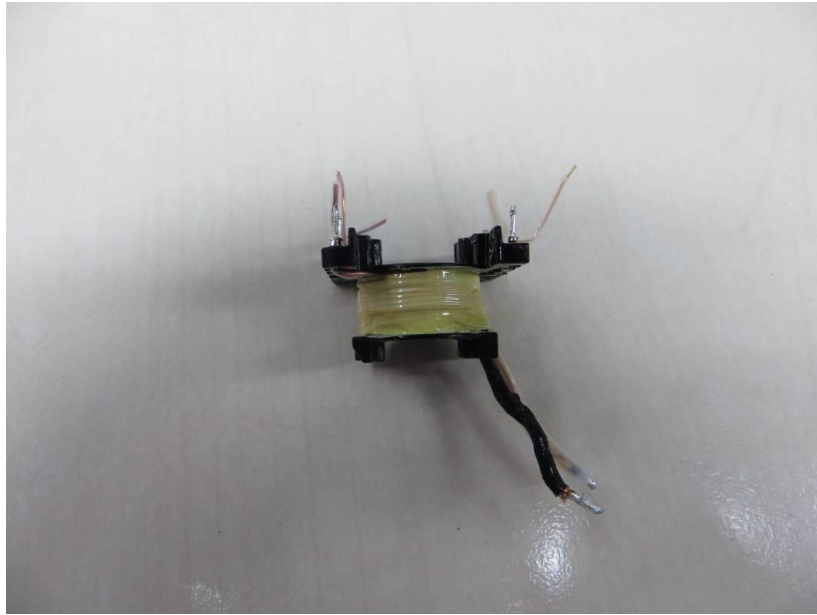


Transformer for GT\*96600 series

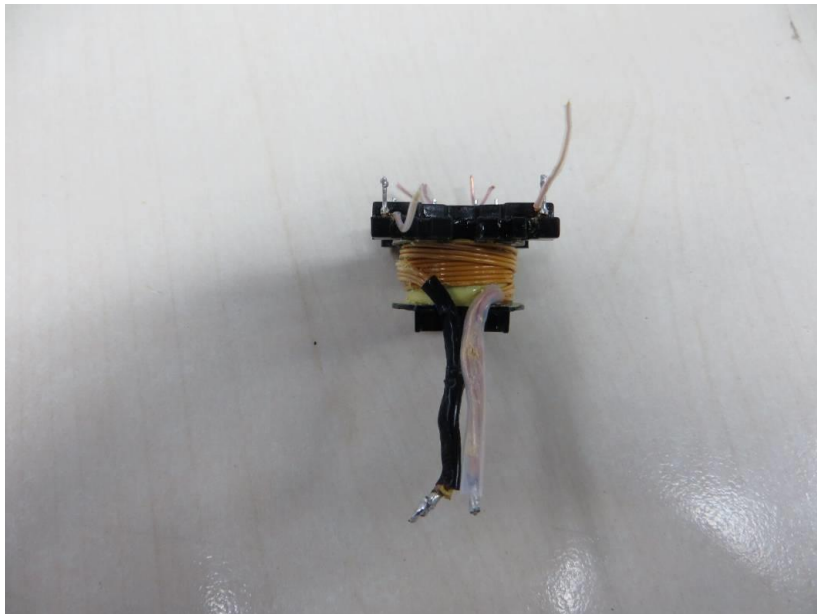


Transformer for GT\*96600 series

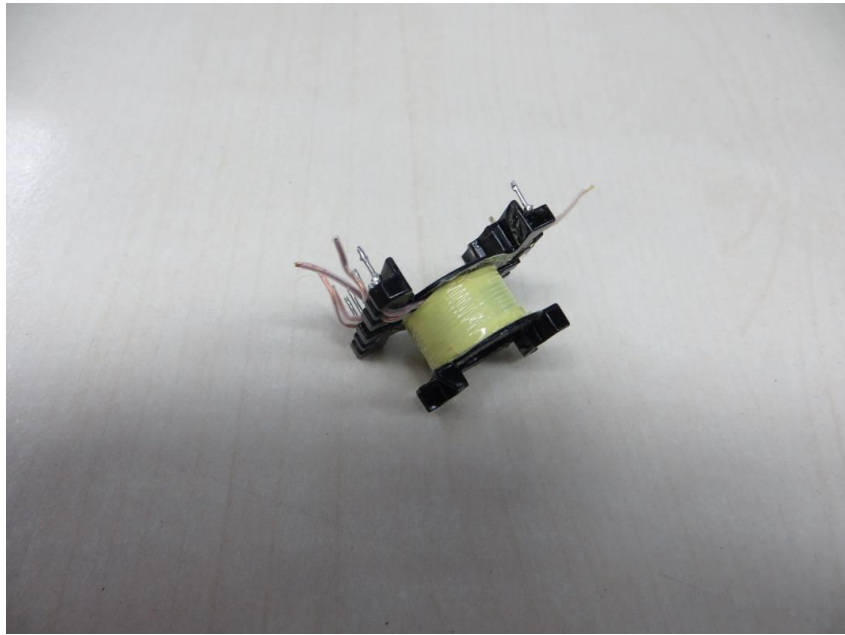




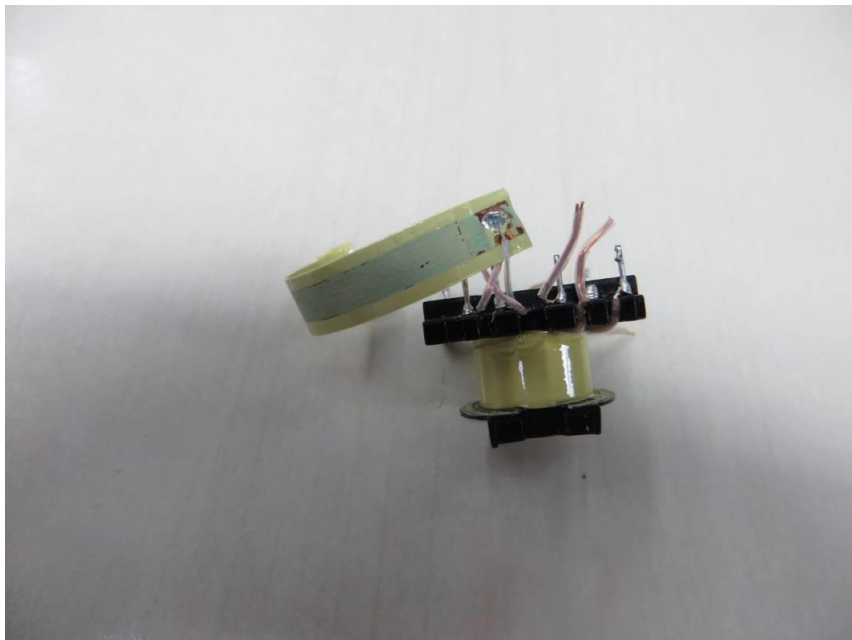
Transformer for GT\*96600 series



Transformer for GT\*96600 series

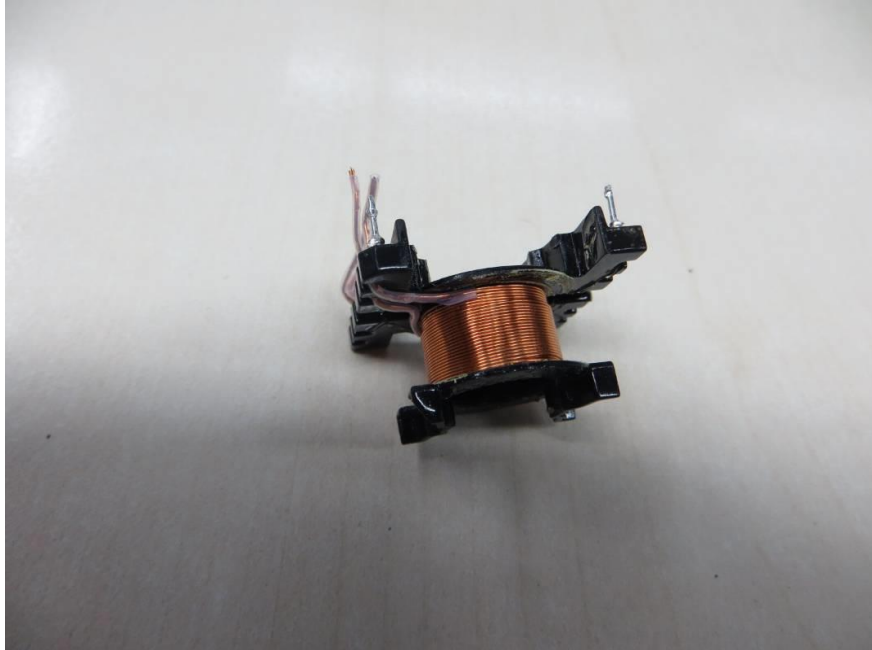


Transformer for GT\*96600 series

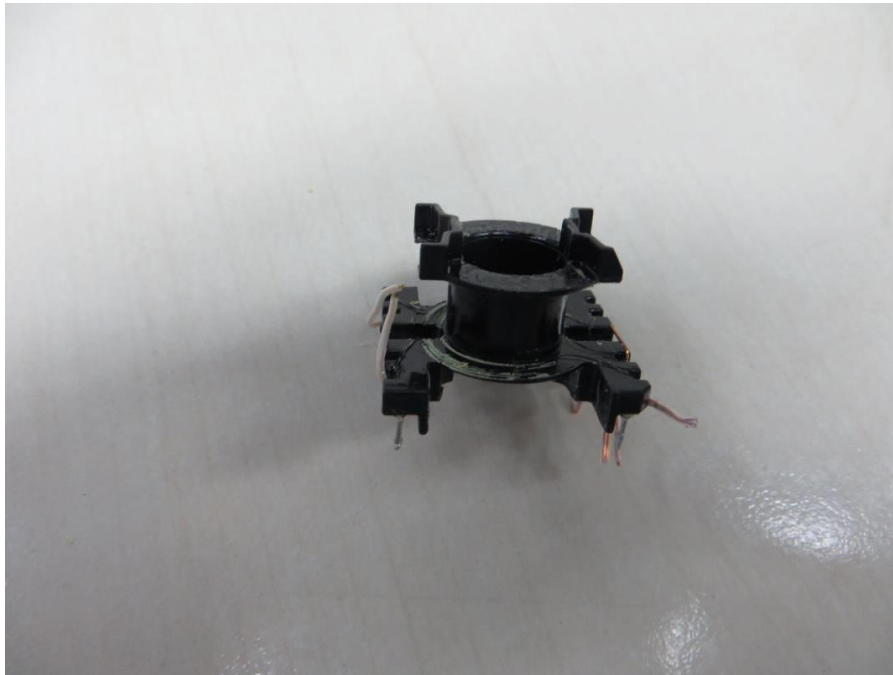


Transformer for GT\*96600 series





Transformer for GT\*96600 series



Transformer for GT\*96600 series



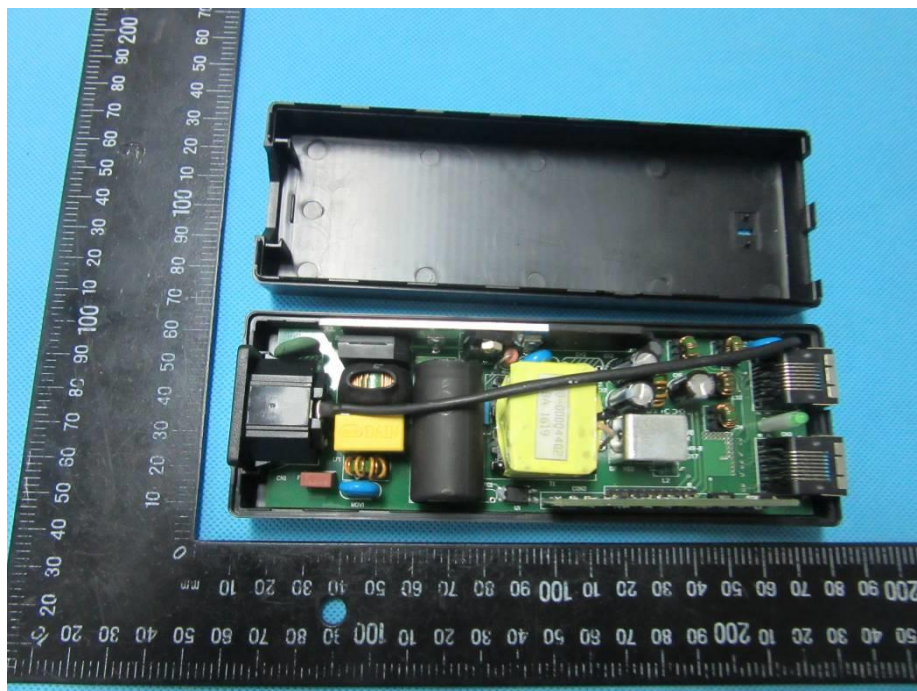
For GT\*96600-\*56\*\*\* (External view)



For GT\*96600-\*56\*\*\* (External view)

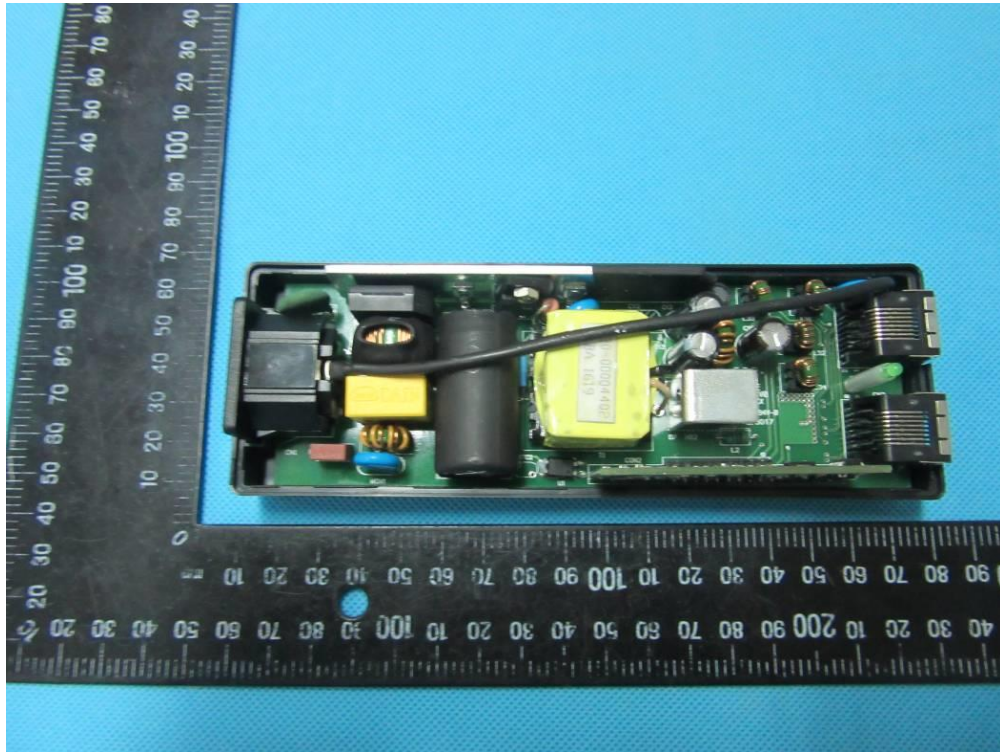


For GT\*96600-\*56\*\*\* (Enclosure with lug)

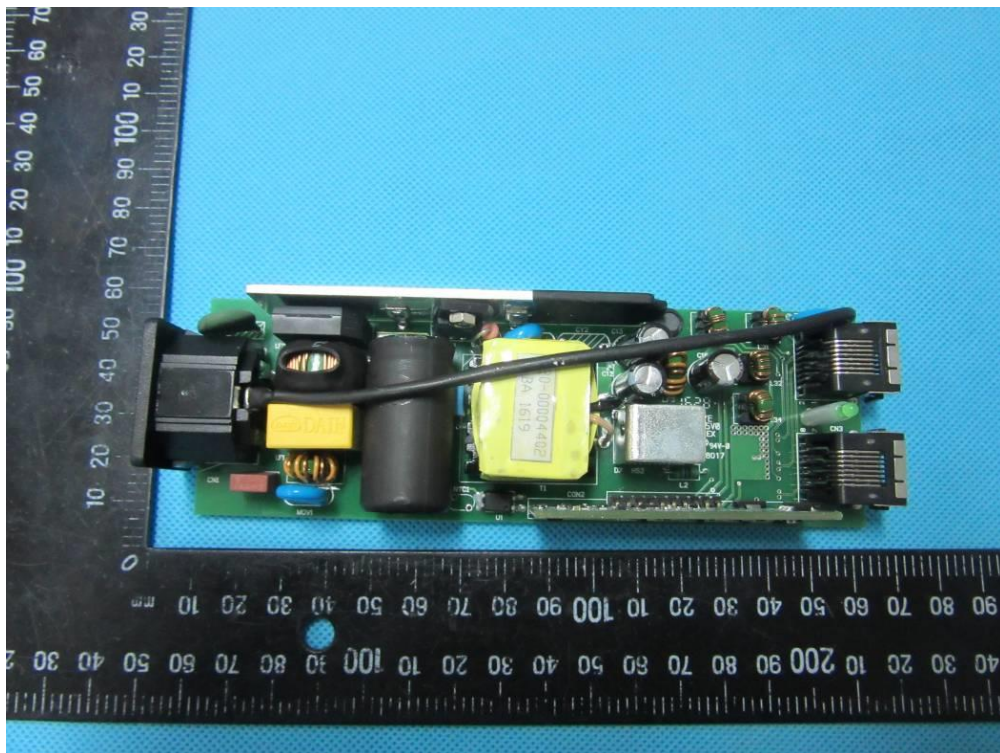


For GT\*96600-\*56\*\*\* (Internal view)

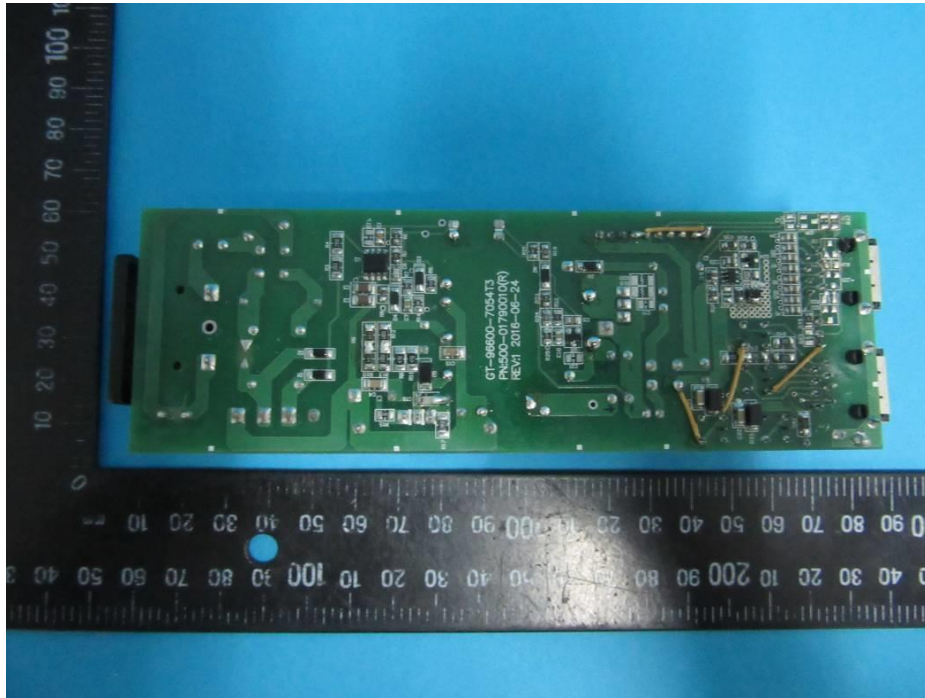




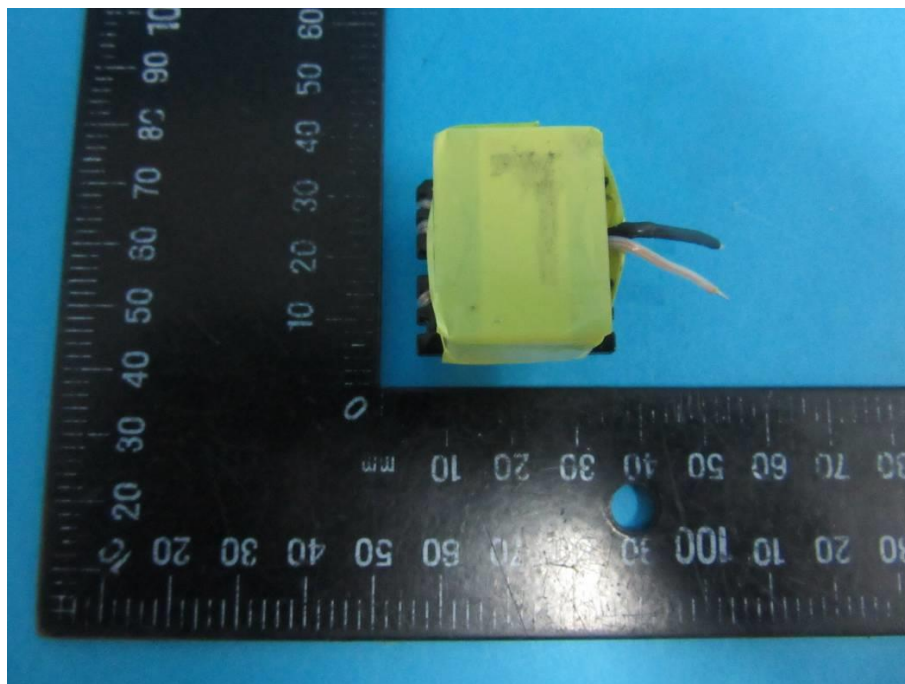
For GT\*96600-\*56\*\*\* (Internal view)



For GT\*96600-\*56\*\*\* (PCB)

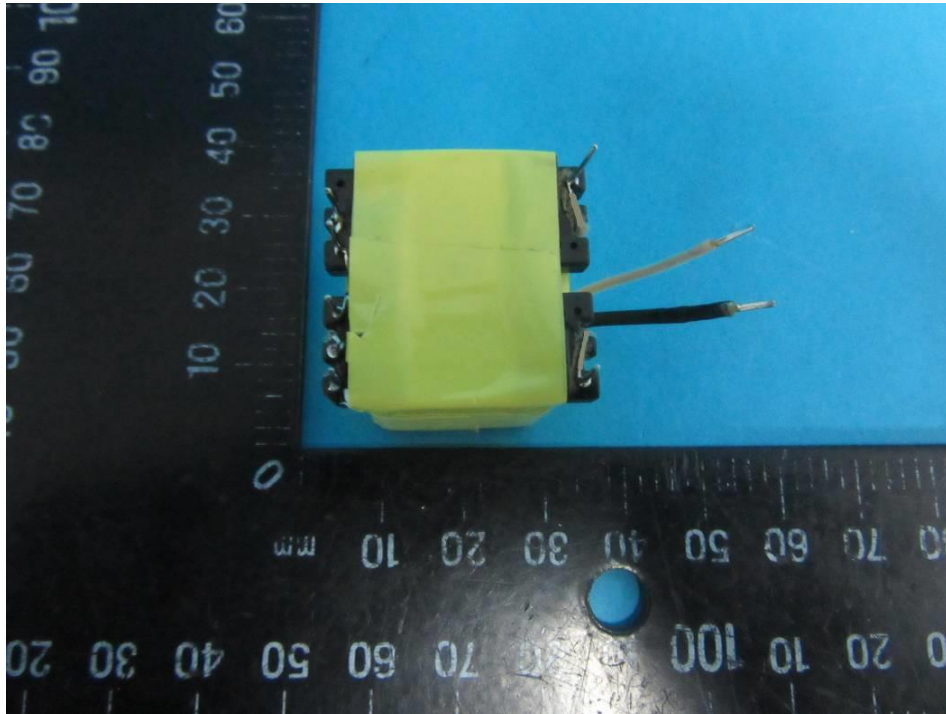


For GT\*96600-\*56\*\*\* (PCB)

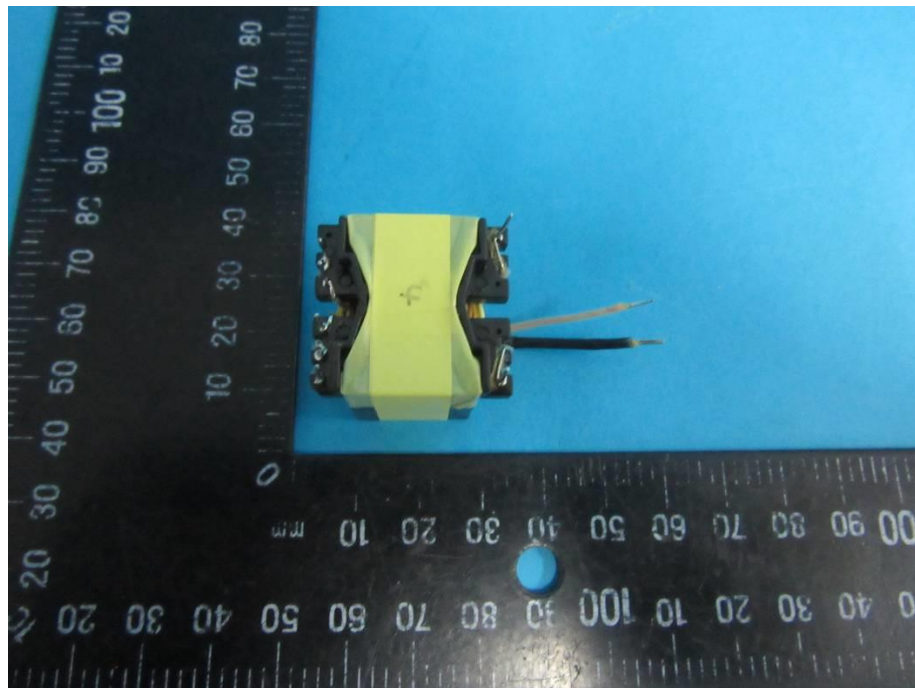


For GT\*96600-\*56\*\*\* (Transformer)

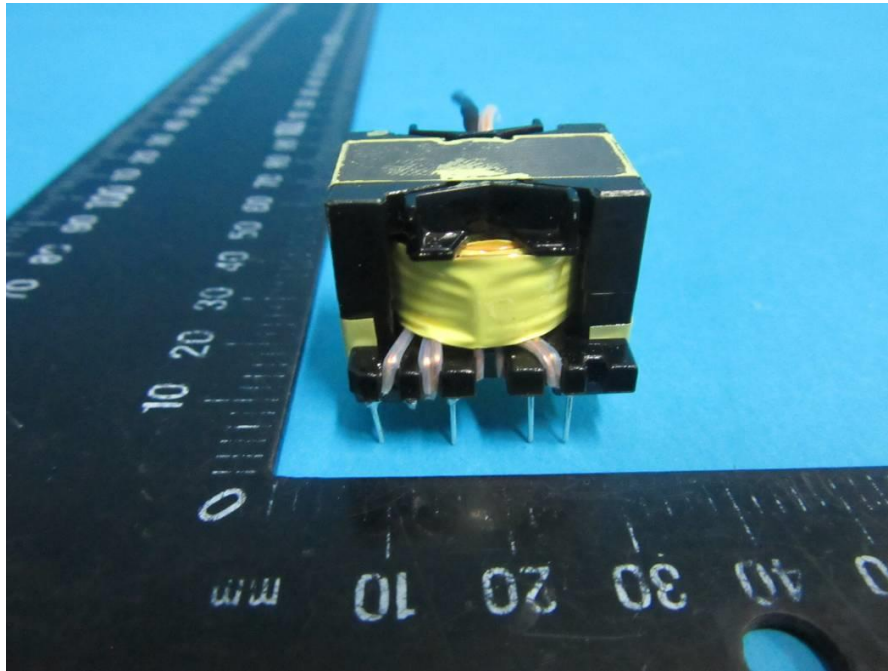




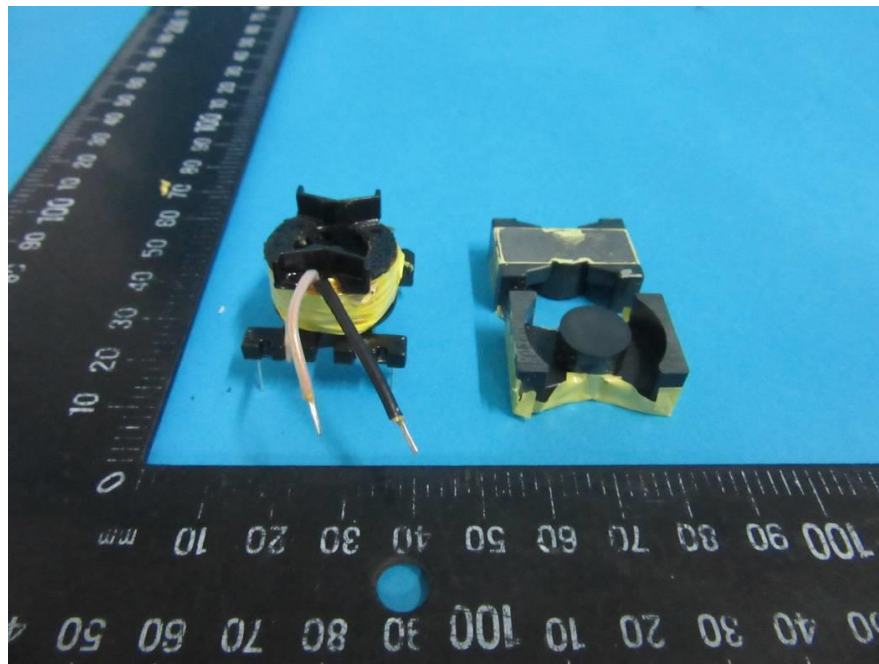
For GT\*96600-\*56\*\*\* (Transformer)



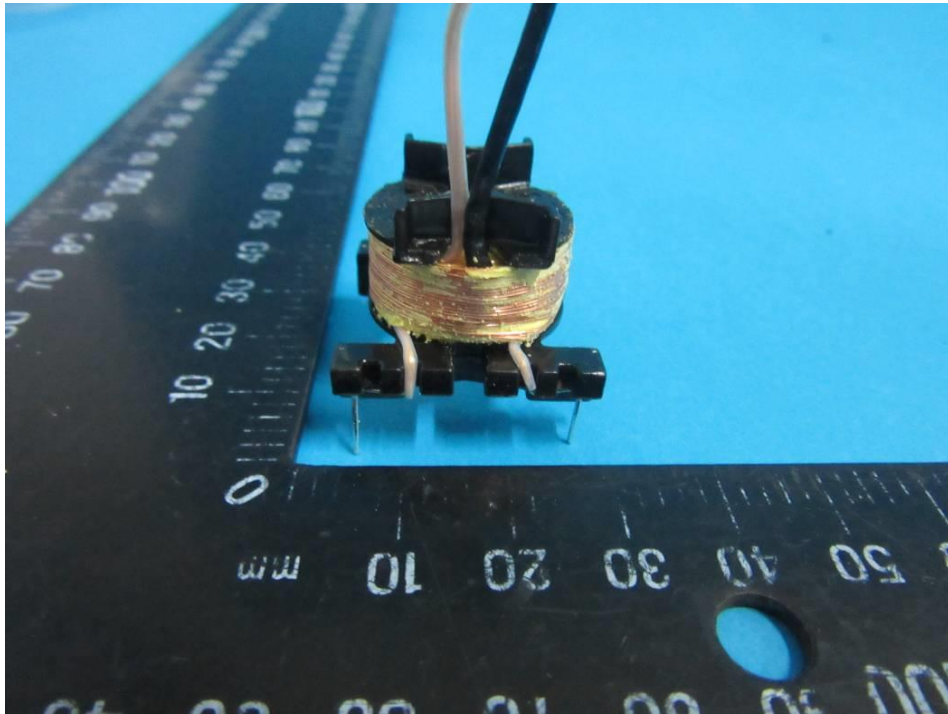
For GT\*96600-\*56\*\*\* (Transformer)



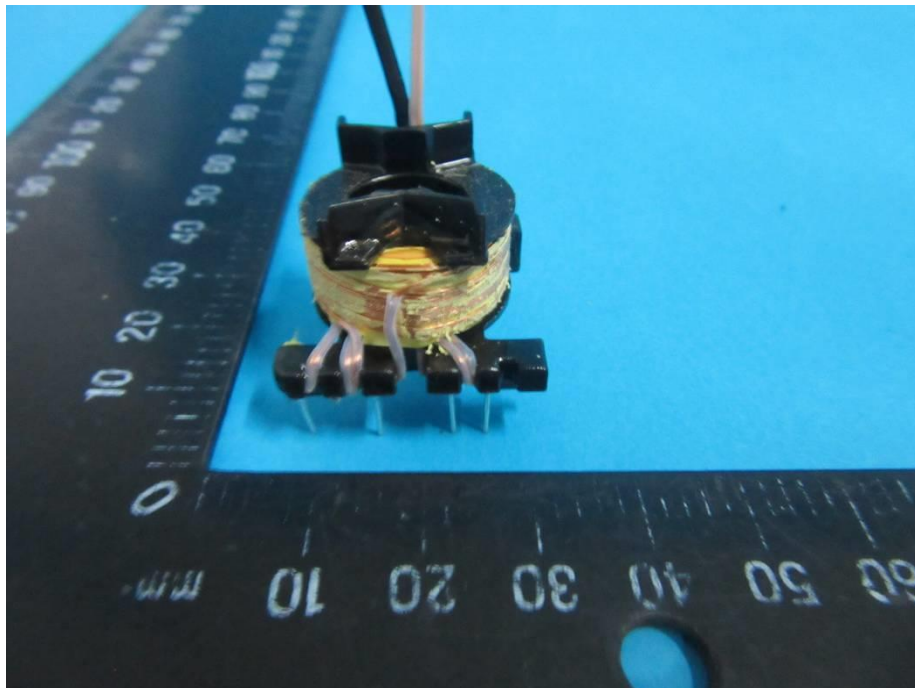
For GT\*96600-\*56\*\*\* (Transformer)



For GT\*96600-\*56\*\*\* (Transformer)

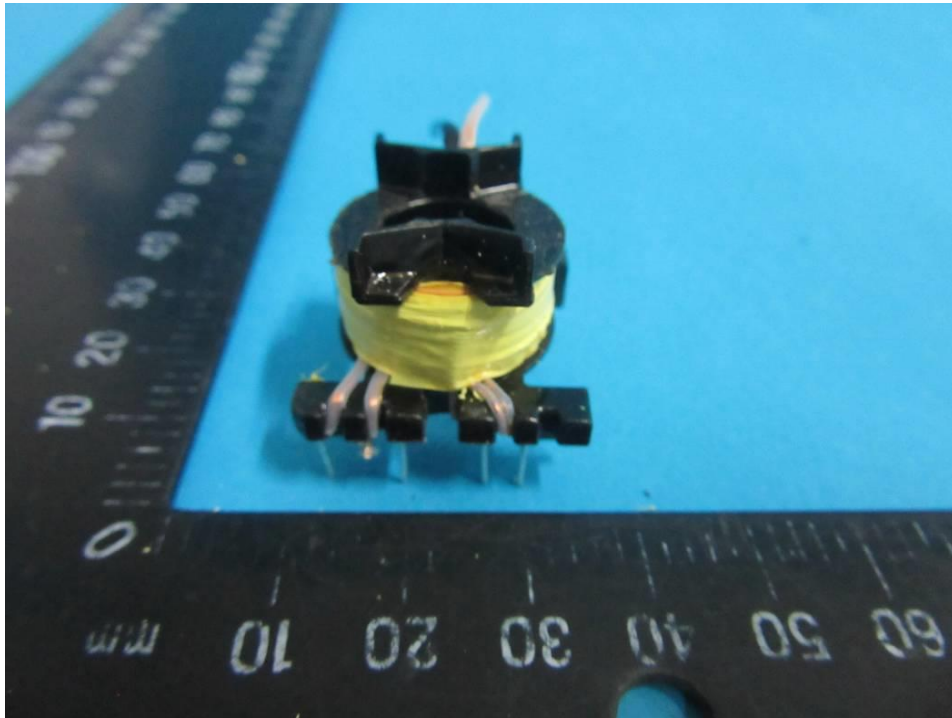


For GT\*96600-\*56\*\*\* (Transformer)

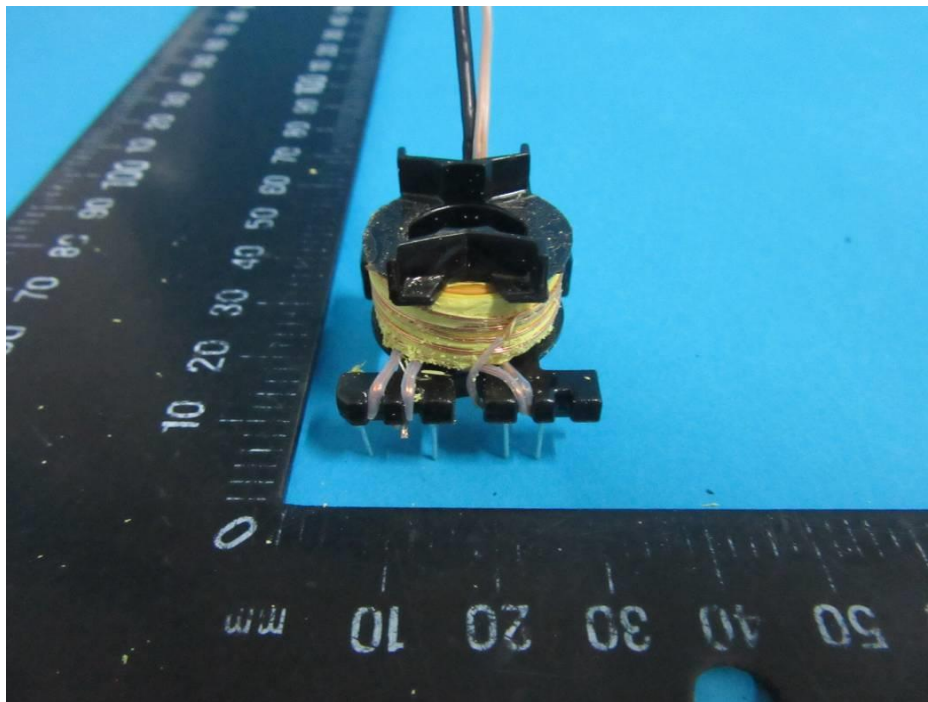


For GT\*96600-\*56\*\*\* (Transformer)

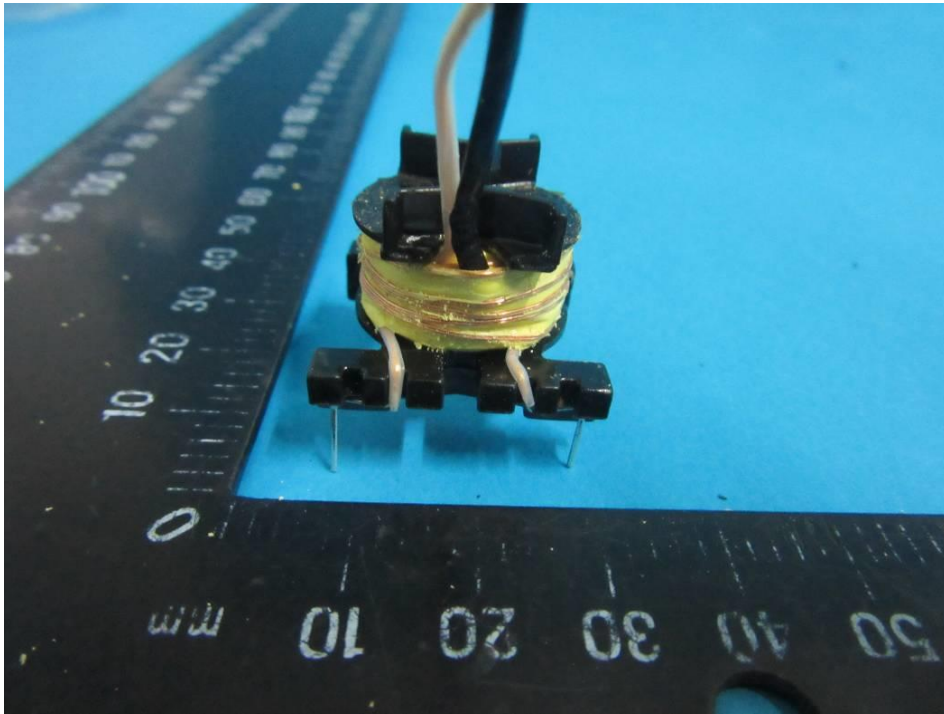




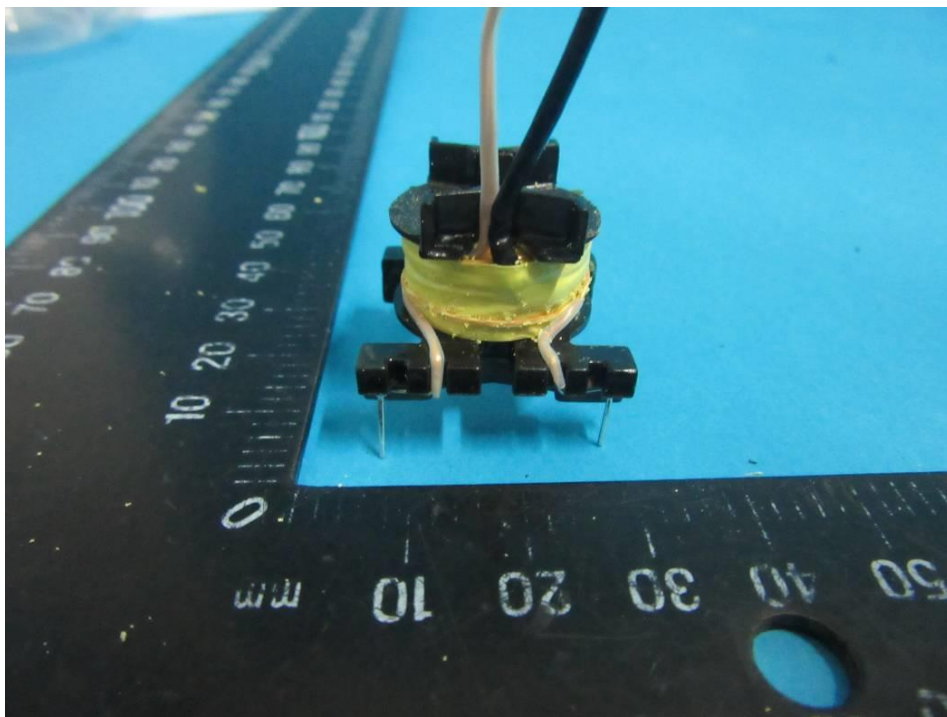
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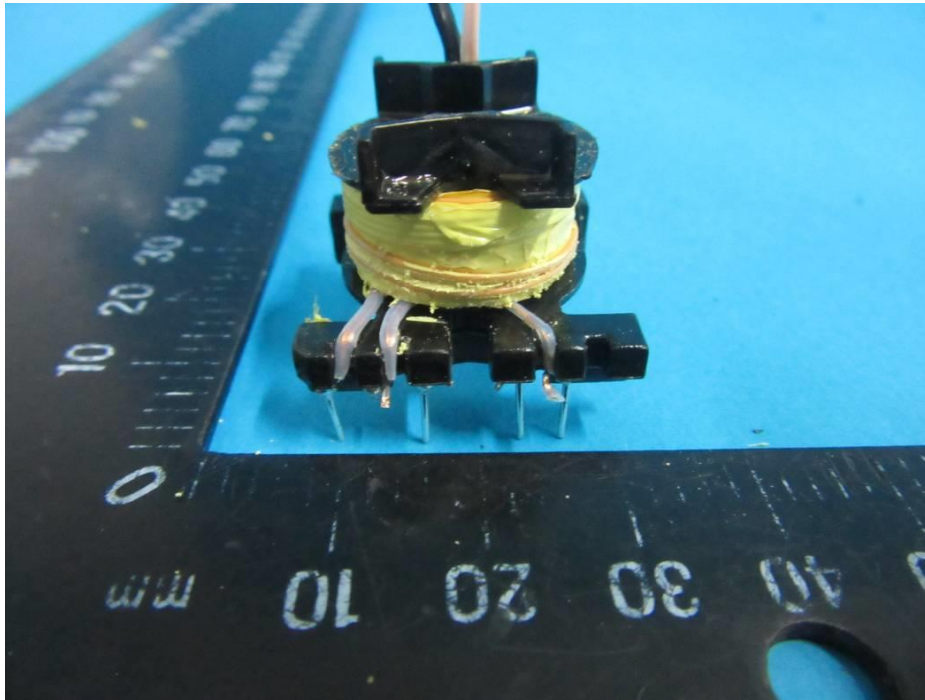
For GT\*96600-\*56\*\*\* (Transformer)



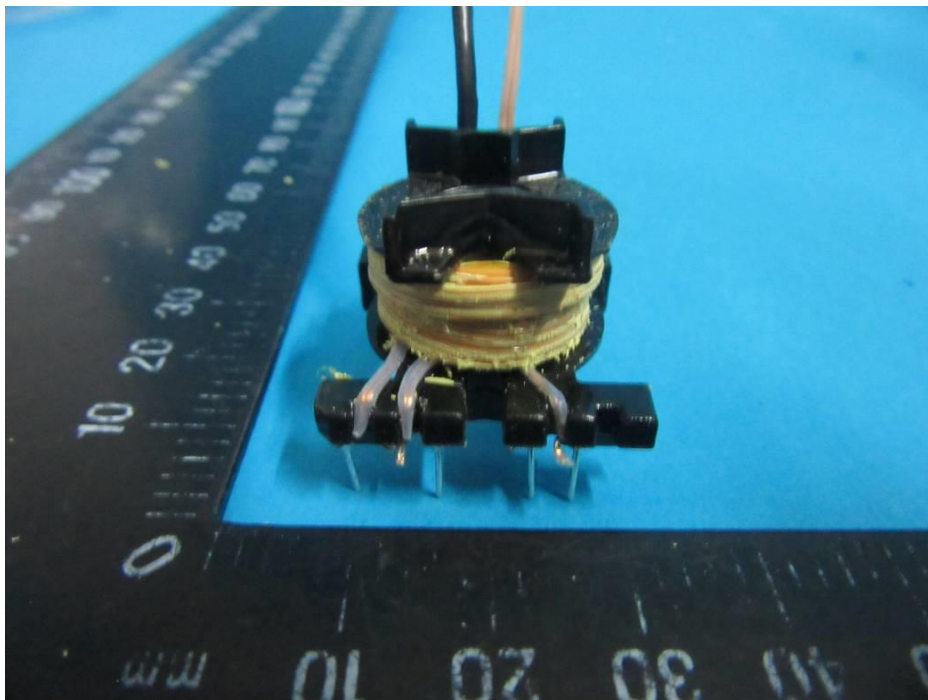
For GT\*96600-\*56\*\*\* (Transformer)



For GT\*96600-\*56\*\*\* (Transformer)

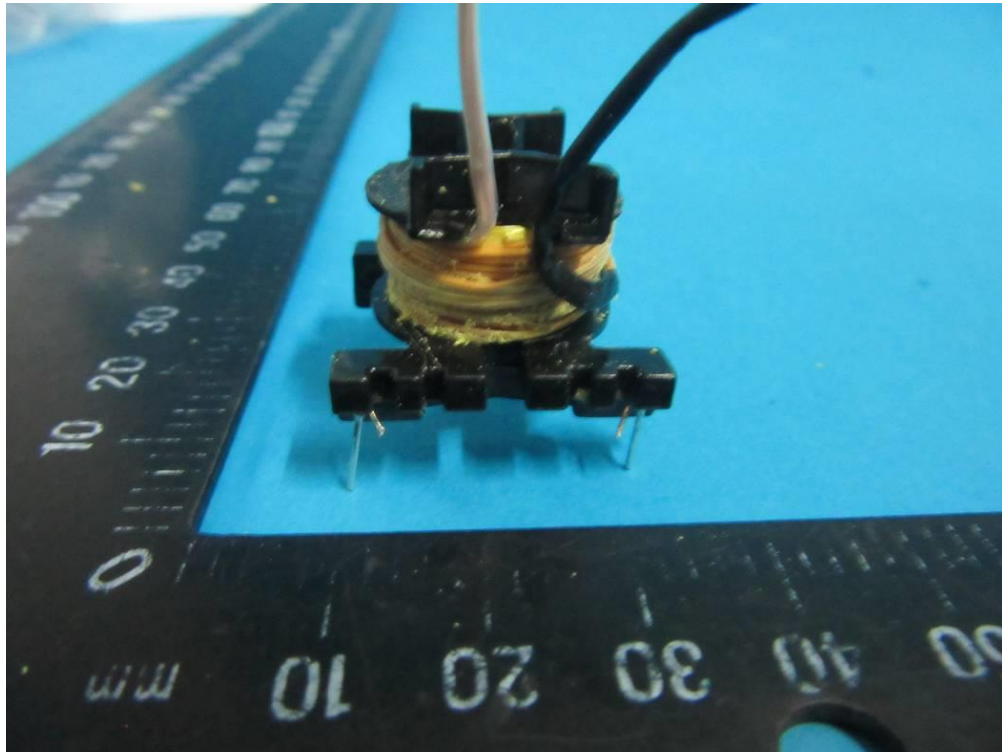


For GT\*96600-\*56\*\*\* (Transformer)

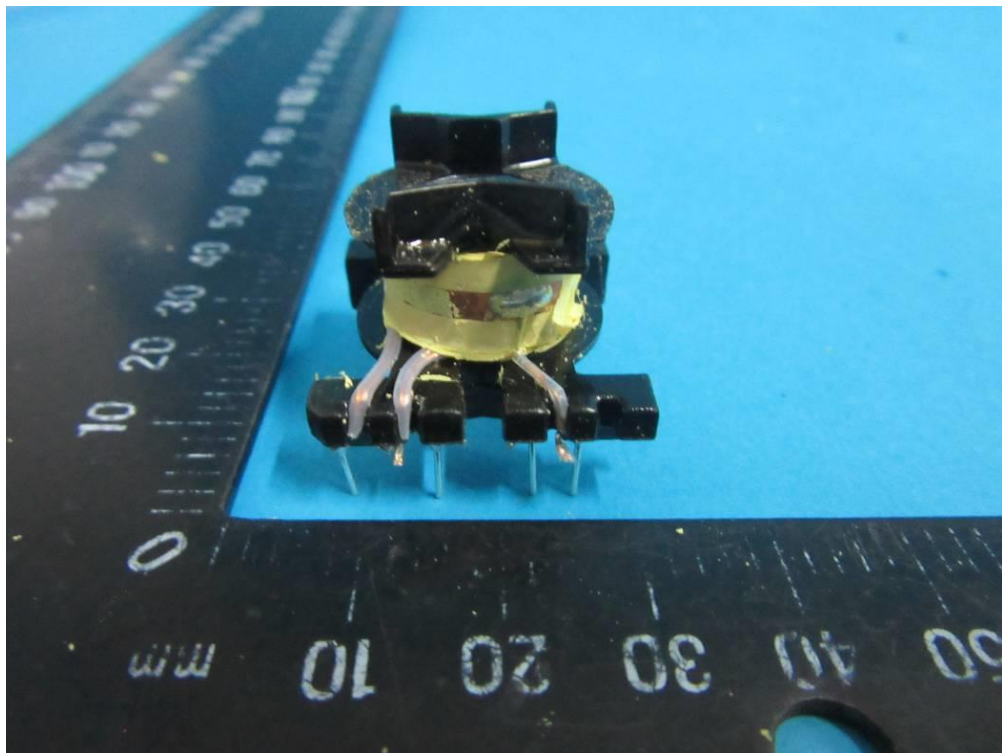


For GT\*96600-\*56\*\*\* (Transformer)

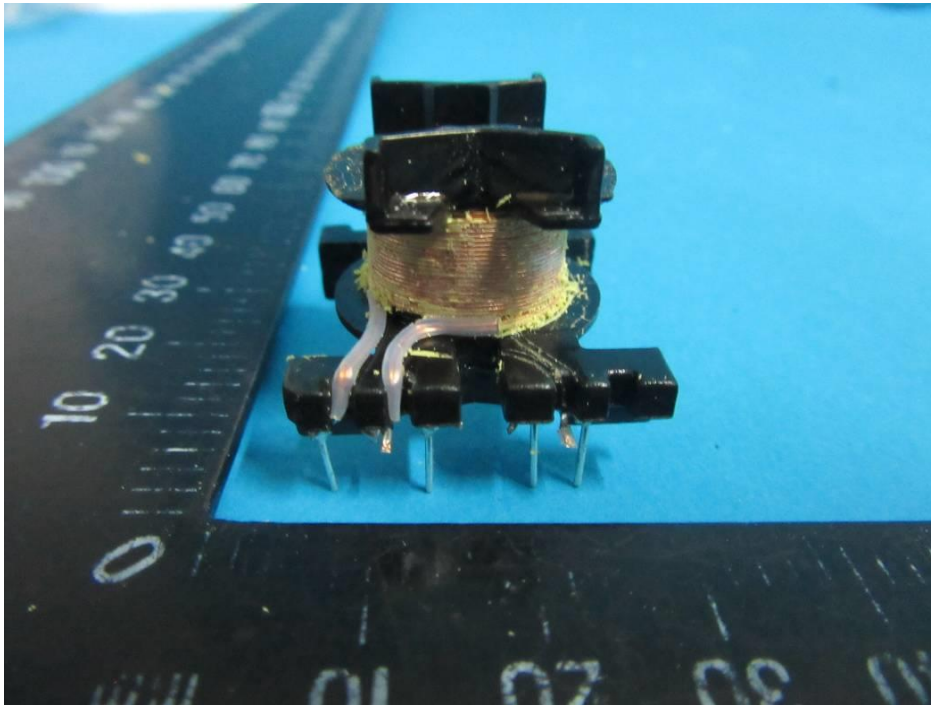




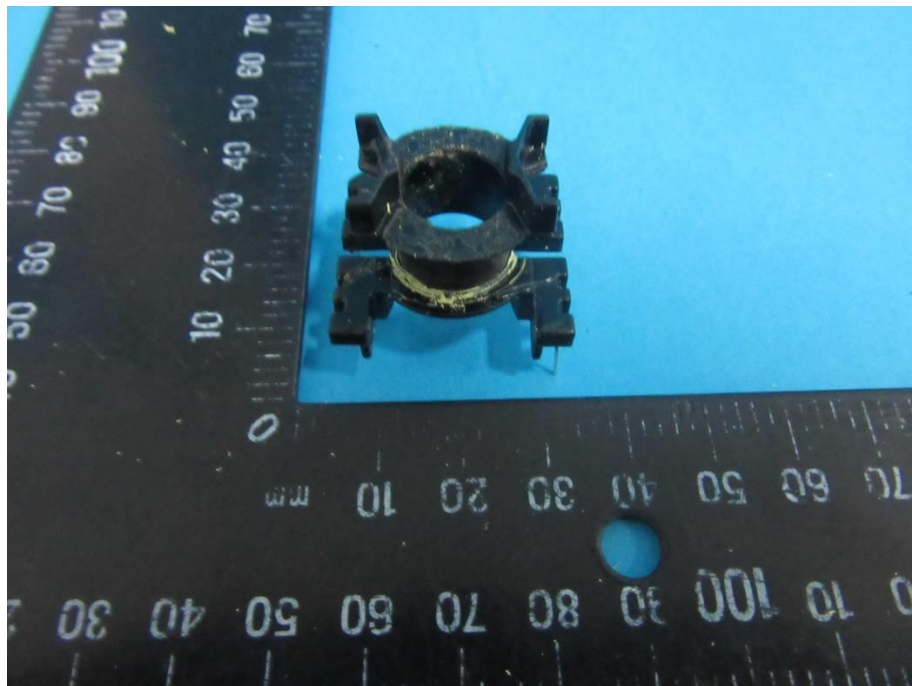
For GT\*96600-\*56\*\*\* (Transformer)



For GT\*96600-\*56\*\*\* (Transformer)



For GT\*96600-\*56\*\*\* (Transformer)



For GT\*96600-\*56\*\*\* (Transformer)



**External view for GTM96600 series with fixed power cord**



**External view for GTM96600 series with fixed power cord**





**Internal view for GTM96600 series with fixed power cord**



**Internal view for GTM96600 series with fixed power cord**

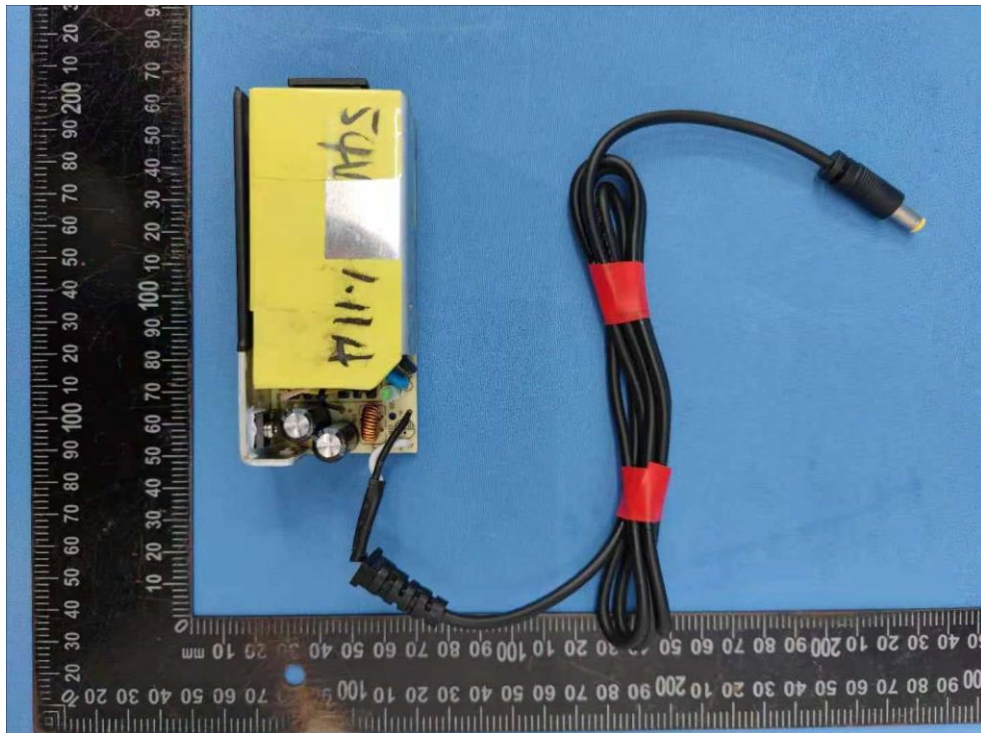


External view for GTM96600-6054-R3A-CF



External view for GTM96600-6054-R3A-CF





Internal view for GTM96600-6054-R3A-CF



Internal view for GTM96600-6054-R3A-CF



External view for GTM9600-3005-R3A-CF

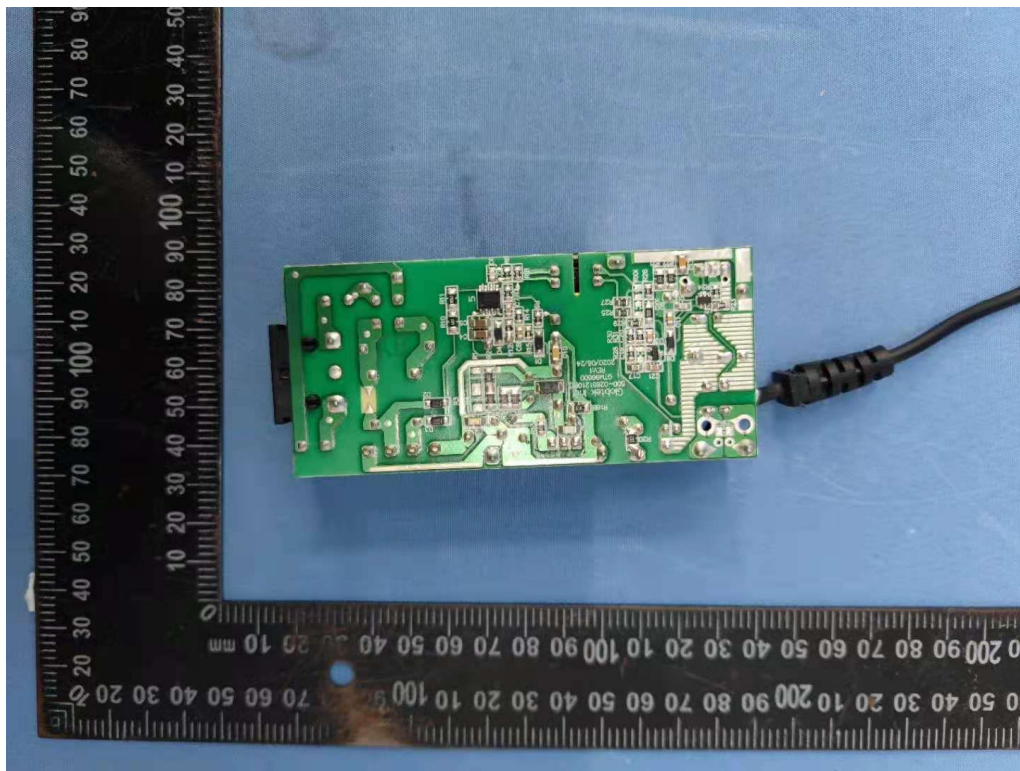


External view for GTM9600-3005-R3A-CF





Internal view for GTM96600-3005-R3A-CF



Internal view for GTM96600-3005-R3A-CF



**The view for heatshrink tube**

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict

## Attachment 2: National difference of US

ATTACHMENT TO TEST REPORT IEC 60601-1:2005 + AMD 1:2012 US NATIONAL DIFFERENCES MEDICAL ELECTRICAL EQUIPMENT - PART 1: GENERAL REQUIREMENTS FOR BASIC SAFETY AND ESSENTIAL PERFORMANCE			
Differences according to .....		National standard AAMI ES60601-1:2005,ES60601-1:2005/AMD1 1:2012 , ES60601-1:2005/AMD2:2021	
TRF template used: .....		IECEE OD-2020-F3, Ed. 1.1	
Attachment Form No. ....		US_ND_IEC60601_1U	
Attachment Originator .....		UL(US)	
Master Attachment .....		2022-07-01	
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	National Differences		P
4.8	Components of ME EQUIPMENT		P
	b) where there is no relevant IEC/ISO standard, the relevant ANSI standard applied; if no relevant ANSI standard exists, the requirements of this standard were applied. <i>(Replacement of clause 4.8 b)</i>	See appended table 8.10 in IEC 60601-1 test report for details.	P
4.10.2	SUPPLY MAINS FOR ME EQUIPMENT AND ME SYSTEMS		P
	<i>(Replacement to reflect agreement with the National Electrical Code (NEC):</i> The reference to "500 V" replaced with "600 V" in the second and third dashes.		P
	<i>(Addition to reflect agreement with the NEC)</i> In the text of the second-to-last dash of this sub-clause, "and the NEC" added after reference to "IEC 60364-4-41"		N/A
6.0	Classification of ME EQUIPMENT and ME SYSTEMS		N/A
6.6	Mode of operation		N/A
	<i>(Addition to reflect agreement with NFPA 70)</i> X-Ray systems are classified as long time operation (> 5 min) or momentary operation (< 5 sec).	No X-RAY systems	N/A
7.0	ME EQUIPMENT identification, marking and documents		N/A
7.2.11	Mode of operation		N/A

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
	<i>(Addition to reflect agreement with NFPA 70)</i> X-Ray systems are marked as long time operation or momentary operation.	No X-RAY systems	N/A
7.2.22	<i>(Addition of new item)</i> Colours of medical gas cylinders	No medical gas used.	N/A
	To reflect agreement with NFPA 99: Cylinders containing medical gases and their connection points are coloured in accordance with the requirements of NFPA 99.		N/A
8.0	Protection against electrical hazards from ME EQUIPMENT		P
8.2	Requirements related to power sources		P
	<i>(Addition to reflect agreement with the NEC)</i> All FIXED ME EQUIPMENT and PERMANENTLY INSTALLED ME EQUIPMENT are CLASS I ME EQUIPMENT.		P
8.6.1	Application of requirements		N/A
	<i>(Addition to reflect agreement with NFPA 99)</i> The enclosure of X-ray ME EQUIPMENT operating over 600 Vac, 850 Vdc MAINS VOLTAGE, or containing voltages up to 50 V peak and enclosed in protectively earthed enclosure as well as connections to X-ray tubes and other high voltage components that include high voltage shielded cables are PROTECTIVELY EARTHED.	No X-RAY systems	N/A
	<i>(Addition to reflect agreement with NFPA 99)</i> Non-current carrying conductive parts of X-Ray ME EQUIPMENT likely to become energized are PROTECTIVELY EARTHED	See above	N/A
8.7.3	Allowable values		P
	<i>(Deletion to reflect agreement with NFPA 99 which does not allow for allowance greater than the stated values)</i> Delete the second sentence and note to sub-clause 8.7.3 d) so that it reads: d) The allowable values of the EARTH LEAKAGE CURRENT are 5 mA in NORMAL CONDITION and 10 mA in SINGLE FAULT CONDITION	No patient leakage current or patient auxiliary current.	P
8.11	MAINS PARTS, components and layout		N/A
	<i>(Addition to reflect agreement with the NEC)</i> Permanently connected ME EQUIPMENT has provision for the connection of one of the wiring systems that is in accordance with the NEC.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Exception: Fixed and stationary X-ray ME EQUIPMENT supplied from a branch circuit rated at 30 A or less, and ME EQUIPMENT that is not strictly portable but obviously is intended to be stationary, may be acceptable if provided with a length of attached hard service flexible cord - such as Type S, or the equivalent, for supply connection.	No X-RAY systems	N/A
	The installation of connecting cords between EQUIPMENT parts meets the requirements of the NEC, as applicable. Cable used as external interconnection between units are as follows:		N/A
	1) If exposed to abuse, the cables are Type SJT, SJTO, SJO, ST, SO, STO, or equivalent flexible cord or similar multiple-conductor appliance-wiring material such as computer cable		N/A
	2) If not exposed to abuse, the cables are as indicated in item 1) above or are: i) Type SPT-2, SP-2, or SPE-2, or equivalent, ii) Type SVr, SVRO, SVE, or equivalent flexible cord or similar multiple-conductor appliance wiring material, or iii) An assembly of insulated wires each with a nominal insulation thickness of 0.8 mm (1/32 inch) or more, enclosed in acceptable insulating tubing having a nominal wall thickness of 0.8 mm (1/32 inch) or more.		N/A
	Receptacles provided as part of ME EQUIPMENT or ME SYSTEMS for use in the patient care areas of paediatric wards, rooms, or areas are listed tamper resistant or employ a listed tamper resistant cover in accordance with the NEC.	No such receptacles provided.	N/A
	b) For ME EQUIPMENT provided with NEMA configuration non-locking plug types 120 V/15 A, 125 V/20 A, 250 V/15 A, 250 V/20 A "Hospital Grade" mains plug is provided and the POWER SUPPLY CORD is marked.		N/A
8.11.3.2	<i>(Addition to reflect agreement with the NEC)</i> The flexible cord is of a type that is acceptable for the particular application. It is acceptable for use at a voltage not less than the rated voltage of the appliance and has an ampacity, as given in the NEC, not less than the current rating of the appliance .....		N/A
8.11.3.3	Cross-sectional area of POWER SUPPLY CORDS		N/A

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
	<i>(Addition to reflect agreement with NFPA 99)</i> For X-Ray ME EQUIPMENT with an attachment plug, the current rating on a hospital grade plug should be 2X the maximum input current of the equipment.	No X-Ray equipment	N/A
	1) If exposed to abuse, the cables are Type SJT, SJTO, SJO, ST, SO, STO, or equivalent flexible cord or similar multiple-conductor appliance-wiring material such as computer cable.		N/A
	2) If not exposed to abuse, the cables are as indicated in item 1) above or are: i) Type SPT-2, SP-2, or SPE-2, or equivalent, ii) Type SVr, SVRO, SVE, or equivalent flexible cord or similar multiple-conductor appliance wiring material, or iii) An assembly of insulated wires each with a nominal insulation thickness of 0.8 mm (1/32 inch) or more, enclosed in acceptable insulating tubing having a nominal wall thickness of 0.8 mm (1/32 inch) or more.		N/A
	Receptacles provided as part of ME EQUIPMENT or ME SYSTEMS for use in the patient care areas of paediatric wards, rooms, or areas are listed tamper resistant or employ a listed tamper resistant cover in accordance with the NEC.		N/A
	b) For ME EQUIPMENT provided with NEMA configuration non-locking plug types 120 V/15 A, 125 V/20 A, 250 V/15 A, 250 V/20 A "Hospital Grade" mains plug is provided and the POWER SUPPLY CORD is marked.		N/A



IEC60601			
Clause	Requirement + Test	Result - Remark	Verdict

### Attachment 3: The Canadian National Differences

ATTACHMENT TO TEST REPORT			
IEC 60601-1			
CANADA NATIONAL DIFFERENCES			
MEDICAL ELECTRICAL EQUIPMENT — PART 1: GENERAL REQUIREMENTS FOR BASIC SAFETY AND ESSENTIAL PERFORMANCE			
Differences according to .....		Canadian National standard: CAN/CSA-C22.2 No. 60601-1:08, CAN/CSA-C22.2 No. 60601-1:14 (including amendment 1) and Amendment 2:2022 (MOD) to CAN/CSA-C22.2 No. 60601-1:14	
TRF template used:.....		IECEE OD-2020-F3, Ed. 1.1	
Attachment Form No. ....		CA_ND_IEC60601_1U	
Attachment Originator.....		CSA Group	
Master Attachment.....		Dated 2022-08-12	
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Note *: IEC CANADIAN NATIONAL DIFFERENCES in Canada are called CANADIAN DEVIATIONS.			
	Canadian National Differences		P
1	Scope, object and related standards		P
1.1	Scope		P
	<div>[Replace the first paragraph with the following]</div> <div>This Standard applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE of MEDICAL ELECTRICAL EQUIPMENT and MEDICAL ELECTRICAL SYSTEMS designed to be used in accordance with CSA C22.1 (Canadian Electrical Code, Part I) and CSA Z32.</div>		P
	<div>[Add the following note]</div> <div>Note 1A: In the IEC 60601 Standards series adopted for use in Canada, the Canadian standards may modify, replace, or delete requirements contained in the IEC standard as appropriate to the ME EQUIPMENT and ME SYSTEMS under evaluation, and they may add other BASIC SAFETY and ESSENTIAL PERFORMANCE requirements</div>		---
1.3	Collateral standards		P
	<div>[Replace this clause with the following]</div> <div>Applicable Canadian 60601 collateral standards become normative at the date of their publication and apply together with this Standard.</div>		P
1.4	Particular standards		P
	<div>[Replace this clause with the following]</div> <div>Applicable Canadian 60601/80601 particular standards may modify, replace, or delete</div>		P

IEC60601			
Clause	Requirement + Test	Result - Remark	Verdict
	requirements contained in this Standard. The requirement of a Canadian 60601/80601 particular safety standard takes priority over this Standard.		
<b>2</b>	<b>Normative references</b>		P
	<p>In this CSA Group adoption, any reference to International Standards shall be replaced by the relevant National Standard of Canada.</p> <p><b>Note 1DV:</b> <i>For additional information about normative Standards in Canada, refer to the Canadian Electrical Code, Part I, Appendix A.</i></p> <p>Where reference is made to CSA Group Standards, such reference are considered to refer to the latest edition and all amendments published to that edition. This Standard refers to the following Standards, and the years shown indicate the latest editions available at the time of printing:</p> <p><b>CSA Group</b>  B51-09  Boiler, pressure vessel, and pressure piping code  C22.1-21  Canadian Electrical Code, Part I  C22.2 No. 0:20  General requirements — Canadian Electrical Code, Part II  C22.2 No. 0.4-17  <i>Bonding of electrical equipment</i></p> <p>C22.2 No. 21-95 (R2009)  Cord sets and power supply cords  C22.2 No. 42-10  General use receptacles, attachment plugs, and similar wiring devices  C22.2 No. 49-10  Flexible cords and cables  C22.2 No. 100:14 (R2019)  <i>Motors and generators</i></p> <p>C22.2 No. 248 series of Standards  Low-voltage fuses  C22.2 No. 308-18  Cord reels and multi-outlet assemblies</p> <p>CAN/CSA-E61558-2-1-03 (R2012)  Safety of power transformers, power supply units and similar — Part 2: Particular requirements for separating transformers for general use  CSA C22.2 No. 62368-1:19  Audio/video, information and communication technology equipment — Part 1: Safety requirements  Z32-09  Electrical safety and essential electrical systems in health care facilities  CAN/CSA-Z305.8-03 (R2013)</p>		P

IEC60601			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>Medical supply units Z305.12-06 (R2012) Safe storage, handling, and use of portable oxygen systems in residential buildings and health care facilities Z305.13-09 Plume scavenging in surgical, diagnostic, therapeutic, and aesthetic settings CAN/CSA-Z5359-10 Low-pressure hose assemblies for use with medical gases CAN/CSA-Z9170-1-11 Terminal units for medical gas pipeline systems — Part 1: Terminal units for use with compressed medical gases, vacuum, and anaesthetic gas scavenging systems CAN/CSA-Z10524-1:12 Pressure regulators for use with medical gases — Part 1: Pressure regulators and pressure regulators with flow-metering devices CAN/CSA-Z15002:12 Flow-metering devices for connection to terminal units of medical gas pipeline systems <b>ASME (American Society of Mechanical Engineers)</b> PTC 25-2008 Pressure Relief Devices <b>CGA (Compressed Gas Association)</b> V-1-2013 Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connections V-5-2008 (reaffirmed 2013) Diameter Index Safety System (Noninterchangeable Low Pressure Connections for Medical Gas Applications) <b>ISO (International Organization for Standardization)</b> 32:1977 Gas cylinders for medical use — Marking for identification of content 407:2004 Small medical gas cylinders — Pin-index yoke-type valve connections 9170-2:2008 Terminal units for medical gas pipeline systems — Part 2: Terminal units for anaesthetic gas scavenging systems</p>		
<b>3</b>	<b>Terminology and definitions</b>		<b>N/A</b>
<b>3.41</b>	<b>HIGH VOLTAGE</b>		<b>N/A</b>
	<p><i>[Replace this Clause in the Canadian deviations in the adopted Standard with the following]</i></p> <p>voltage above 1000 V ac for ac circuits or voltage above 1060 V dc for dc circuits, as defined in the <i>Canadian Electrical Code, Part I</i></p>	See appended table 8.10 in IEC 60601-1 test report for details	<b>N/A</b>

IEC60601			
Clause	Requirement + Test	Result - Remark	Verdict
<b>4.</b>	<b>General requirements</b>		P
<b>4.1A</b>	<i>[Add the following clause]</i> General requirements applicable to ME EQUIPMENT and ME SYSTEMS are provided in CAN/CSA-C22.2 No. 0.		P
<b>4.8</b>	<b>Components of ME EQUIPMENT</b>		P
	<i>[Replace Items a) and b) and Note 2 with the following]</i>	See appended table 8.10 in IEC 60601-1 test report for details.	P
	a) The applicable safety requirements of a relevant CSA Group, IEC, or ISO Standard; or		P
	b) where there is no relevant CSA Group, IEC, or ISO Standard, the requirements of this Standard shall be applied		P
	Note 2: If there are neither requirements in this Standard nor in a CSA Group, IEC, or ISO Standard, any other applicable source (e.g., standards for other types of devices, national standards) could be used to demonstrate compliance with the RISK MANAGEMENT PROCESS.		---
<b>4.10.2</b>	<b>SUPPLY MAINS for ME EQUIPMENT and ME SYSTEMS</b>		P
	<i>[Replace the first sentence with the following]</i>  ME EQUIPMENT intended to be connected to SUPPLY MAINS shall be in accordance with the Canadian Electrical Code, Part I, and the following RATED voltages shall not be exceeded:		P
<b>7.</b>	<b>ME EQUIPMENT identification, marking and documents</b>		P
<b>7.5</b>	<b>Safety signs</b>		P
	<i>[Replace the paragraph starting with "When supplementary text" in IEC Amendment 1 with the following]</i> When supplementary text is placed together with safety signs, the supplementary text shall be in English and French for the intended OPERATOR.		
<b>7.7</b>	<b>Colours of the insulation of conductors</b>		P
<b>7.7.1</b>	<b>PROTECTIVE EARTH CONDUCTOR</b>		P
	<i>[Replace Clause 7.7.1 in the adopted Standard with the following]</i>  A PROTECTIVE EARTH CONDUCTOR shall be identified throughout its length by green or green and yellow coloured insulation.		P
<b>7.7.2</b>	<b>PROTECTIVE EARTH CONNECTIONS</b>		P
	<i>[Replace Clause 7.7.2 in the adopted Standard with the following]</i>  A PROTECTIVE EARTH CONDUCTOR or a PROTECTIVE EARTH CONNECTION of any		P

IEC60601			
Clause	Requirement + Test	Result - Remark	Verdict
	insulation on conductors shall be identified by either green or green and yellow colours at least at the termination of the conductors.		
<b>7.7.3</b>	<b>Green or green and yellow insulation</b>		P
	<i>[Replace Clause 7.7.3 in the adopted Standard, as modified by IEC Amendment 1, with the following]</i>		P
	Identification by green or green and yellow insulation shall only be used for:		P
	- PROTECTIVE EARTH CONDUCTORS (see Clause 8.6.2);		P
	- conductors as specified in Clause 7.7.2;  <b>Note:</b> In other safety Standards such as CSA C22.2 No. 62368-1, internal connections between conductive parts and the main protective earth are called "protective bonding conductors".		P
	- POTENTIAL EQUALIZATION CONDUCTORS (see Clause 8.6.7);		P
	- FUNCTIONAL EARTH CONDUCTORS (see Clause 8.6.9).		P
<b>7.7.4</b>	<b>Neutral conductor</b>		P
	<i>[Replace Clause 7.7.4 in the adopted Standard with the following]</i>  Colours of neutral conductors and POWER SUPPLY CORD conductors shall be in accordance with the <i>Canadian Electrical Code, Part I</i> , CSA C22.2 No. 21, and CSA C22.2 No. 49.		P
<b>7.7.5</b>	<b>POWER SUPPLY CORD conductors</b>		P
	<i>[Replace Clause 7.7.5 in the adopted Standard with the following]</i>  Colours of conductors in POWER SUPPLY CORDS shall be in accordance with the Canadian Electrical Code, Part I, CSA C22.2 No. 21, and CSA C22.2 No. 49.		P
	Compliance with the requirements of Clause 7.7 is checked by inspection.		P
<b>7.9</b>	<b>ACCOMPANYING DOCUMENTS</b>		P
<b>7.9.2.1</b>	<b>General</b>		P
	<i>[Replace the last paragraph in the adopted Standard with the following]</i>  The instructions for use shall be in English and French for the intended OPERATOR.		P
<b>8</b>	<b>Protection against electrical HAZARDS from ME EQUIPMENT</b>		P
<b>8.6</b>	<b>Protective earthing, functional earthing and potential equalization of ME EQUIPMENT</b>		P

IEC60601			
Clause	Requirement + Test	Result - Remark	Verdict
<b>8.6.4</b>	<b>Impedance and current-carrying capability</b>		P
	<i>[Replace Clause 8.6.4 in the adopted Standard, as modified by IEC Amendments 1 and 2, with the following]</i>		P
	PROTECTIVE EARTH CONNECTIONS shall be able to carry fault currents reliably and without excessive voltage drop.		P
	Impedance and current-carrying capability shall comply with CSA C22.2 No. 0.4.		P
	For PERMANENTLY INSTALLED ME EQUIPMENT and ME EQUIPMENT with a non-DETACHABLE POWER SUPPLY CORD, the impedance between the PROTECTIVE EARTH TERMINAL (inside the ME EQUIPMENT) and any part that is PROTECTIVELY EARTHED shall not exceed 100 mΩ. For ME EQUIPMENT with an APPLIANCE INLET, the impedance between the earth pin of the APPLIANCE INLET and any part that is PROTECTIVELY EARTHED shall not exceed 100 mΩ.....:		
	In addition to the test above, for ME EQUIPMENT with a non-DETACHABLE POWER SUPPLY CORD or any DETACHABLE POWER SUPPLY CORD (supplied or specified by the MANUFACTURER), the impedance between the protective earth pin of the MAINS PLUG and the PROTECTIVE EARTH TERMINAL (inside the ME EQUIPMENT) shall not exceed 100 mΩ.....:		P
	Where an APPLIANCE INLET forms the supply connection to ME EQUIPMENT, the earth pin of the APPLIANCE INLET is regarded as the PROTECTIVE EARTH TERMINAL.  The combined testing requirements above are equivalent to 200 mΩ impedance testing requirements as described in IEC 60601-1. Separate testing is required to comply with CSA C22.2 No. 0.4.		P
	<i>Testing shall be carried out using a DETACHABLE POWER SUPPLY CORD as provided or specified (length and cross-sectional area as per the Canadian Electrical Code, Part I) by the MANUFACTURER.</i>		P
	The test current shall have the following characteristics:  — for cord-connected equipment, twice the rating of the attachment plug cap, but not less than 40 A; — for equipment for permanent connection to the supply, twice the rating of the fuse that is required by the <i>Canadian Electrical Code, Part I</i> for the branch circuit to which the equipment is connected, up to 250 A; and — 500 A for equipment for permanent connection to the supply when a branch circuit fused at over 250 A is required.		P

IEC60601															
Clause	Requirement + Test	Result - Remark	Verdict												
	<p>Compliance is checked by the following test:</p> <ul style="list-style-type: none"><li>— for test currents up to 500 A, the measured potential drop shall not exceed 4 V;</li><li>— for equipment that requires branch circuit fusing over 250 A, the measured potential drop multiplied by the required fusing and divided by 250 shall not exceed 4 V;</li><li>— there shall be no melting of any metal in the bond and no heating or burning that is likely to create a fire hazard; and</li><li>— the time duration— the time duration for testing is indicated in Table 8.6.4A:</li></ul>														
	<p style="text-align: center;">Table 8.6.4A Time duration of impedance test current</p> <table><tr><th>Fusing of branch circuit required for equipment (A)</th><th>Time (min)</th></tr><tr><td>0–30</td><td>2</td></tr><tr><td>31–60</td><td>4</td></tr><tr><td>61–100</td><td>6</td></tr><tr><td>101–200</td><td>8</td></tr><tr><td>201 and over</td><td>10</td></tr></table> <p><small>Note: Additional information can be found in CSA C22.2 No. 0.4.</small></p>	Fusing of branch circuit required for equipment (A)	Time (min)	0–30	2	31–60	4	61–100	6	101–200	8	201 and over	10		P
Fusing of branch circuit required for equipment (A)	Time (min)														
0–30	2														
31–60	4														
61–100	6														
101–200	8														
201 and over	10														
	Alternatively, dc may be used for this test, if the ME EQUIPMENT is rated dc.		N/A												
	<p><b>Note:</b> When protective earth is relied on as a MEANS OF PROTECTION, the test current is determined based on the location where a fault could occur. If the prospective fault is in the mains supply circuit prior to the overcurrent protection included in the ME EQUIPMENT, the test current for that part of the protective earth circuit is based on the rating of the external overcurrent protection included in the building infrastructure or specified in the ACCOMPANYING DOCUMENTS (two times the interrupt rating of the external overcurrent protection). If the prospective fault is in the mains supply circuit after the overcurrent protection included in the ME EQUIPMENT, the test current is based on the rating of the overcurrent protection included in the ME EQUIPMENT (two times the interrupt rating of the ME EQUIPMENT overcurrent protection). In either case, the minimum test current is 40 A.</p> <p>The voltage drop between the parts described is measured and the impedance determined from the current and voltage drop.</p> <p>If the measured impedance is within the permitted limit, either the impedance measurement is then repeated using a current source with a no-load voltage sufficient to deliver the specified current into the total impedance, or the current-carrying ability of the relevant protective earth conductor and protective earth connection is confirmed by checking that their cross-sectional area is at least equal to that of the relevant current-carrying conductors.</p>		P												

IEC60601			
Clause	Requirement + Test	Result - Remark	Verdict
<b>8.7</b>	<b>LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENTS</b>		P
<b>8.7.3</b>	<b>Allowable values</b>		P
	<i>[Add the following paragraph]</i>  Allowable values shall be in accordance with the Canadian Electrical Code, Part I.	Considered.	P
<b>8.11</b>	<b>MAINS PARTS, components and layout</b>		P
<b>8.11.3.2</b>	<b>Types</b>		P
	<i>[Replace this clause with the following]</i>		P
	The following requirements for POWER SUPPLY CORDS shall apply:		P
	a) The MAINS PLUG of non-PERMANENTLY INSTALLED EQUIPMENT shall be:		P
	i) if moulded-on type, a hospital-grade mains plug complying with CSA C22.2 No. 21;	Power supply cord not provided, and therefore it was excluded this report.	N/A
	ii) a hospital-grade disassembly attachment plug type complying with CSA C22.2 No. 42; or		N/A
	iii) Class II equipment having fuses on the line side(s), and the neutral may use a non-polarized attachment plug or a polarized attachment plug. CSA configuration type 1-15P shall be required and meets all applicable requirements in CSA C22.2 No. 21 and CSA C22.2 No. 42. Where a polarized attachment plug is used, the POWER SUPPLY CORD is connected to the wiring of the EQUIPMENT on the ungrounded side of the line when any of the following devices are used in the primary circuit:		
	1) the centre contact of an Edison base lampholder;		N/A
	2) a single pole switch;		N/A
	3) an automatic control with a marked off position;		N/A
	4) a solitary fuse/fuse holder; or		N/A
	5) any other single pole overcurrent protective device.		N/A
	b) A detachable POWER SUPPLY CORD for non-PERMANENTLY INSTALLED EQUIPMENT (cord-connected equipment) shall be of a type:		N/A
	i) that can be shown to be unlikely to become detached accidentally, unless it can be shown that detachment will not constitute a safety HAZARD to a PATIENT or OPERATOR;		N/A
	ii) for which it can be shown that the impedance of the earth (ground) circuit contacts will not constitute a safety HAZARD to a PATIENT or OPERATOR; and		N/A
	iii) that has a terminal configuration or other constructional feature that will minimize the possibility of its replacement by a detachable POWER SUPPLY CORD which could create a HAZARDOUS SITUATION.		N/A
	c) The detachable POWER SUPPLY CORD shall:		N/A
	i) comply with the applicable requirements of CSA C22.2 No. 21; and		N/A



IEC60601			
Clause	Requirement + Test	Result - Remark	Verdict
	ii) not be smaller than No. 18 AWG, and the mechanical serviceability is not less than:		N/A
	1) Type SJ or equivalent for ME EQUIPMENT that is mobile or exposed to abuse; and		N/A
	2) Type SV or equivalent for ME EQUIPMENT that is not exposed to abuse (or Type HPN if required because of temperature). <b>Note:</b> See CSA C22.2 No. 49 for requirements for the cord types mentioned in Sub-item 2).		N/A
	d) Installation of POWER SUPPLY CORDS shall meet the requirements of the Canadian Electrical Code, Part I, as applicable.		N/A
	<i>[Add the following to this Canadian deviation in the adopted Standard]</i>  The POWER SUPPLY CORD used with the ME EQUIPMENT shall be in accordance with the temperature rating to which it has been RATED.  <b>Note 1DV:</b> Refer to the Canadian Electrical Code, Part I, Tables 11 and 12 for additional information.		N/A
	Compliance is checked by inspection and measurement.....:		N/A
<b>8.11.3.3</b>	<b>Cross-sectional area of POWER SUPPLY CORD conductors</b>		N/A
	<i>[Replace Clause 8.11.3.3 in the adopted Standard, as modified by Amendment 2, with the following]</i>  The NOMINAL cross-sectional area of conductors of any POWER SUPPLY CORD of ME EQUIPMENT shall be not less than the requirements of the Canadian Electrical Code, Part I, and CSA C22.2 No. 21.  <b>Note:</b> Table 17 can be used for European countries or other countries where the nominal cross-sectional area is measured in mm <sup>2</sup> (HAR); American Wire Gauge (AWG) is the nominal cross-sectional area used in Canada as per the Canadian Electrical Code, Part I.		N/A
	Compliance is checked by inspection.....:		N/A
<b>8.11.5</b>	<b>Mains fuses and OVER-CURRENT RELEASES</b>		P
	<i>[Replace Clause 8.11.5 in the Canadian deviations in the adopted Standard with the following]</i> Installation of overcurrent protective devices shall be in accordance with the Canadian Electrical Code, Part I	See appended table 8.10 in IEC 60601-1 test report for details.	P
<b>9</b>	<b>Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS</b>		N/A
<b>9.7</b>	<b>Pressure vessels and parts subject to pneumatic and hydraulic pressure</b>		N/A
<b>9.7.5</b>	<b>Pressure vessels</b>		N/A
<b>9.7.5</b>	<i>[Replace this clause with the following]</i>  Pressure vessels shall comply with the		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	requirements of CSA B51, as applicable		
<b>9.7.7</b>	<b>Pressure-relief device</b>		N/A
	<i>[Add the following as the first paragraph of this Clause]</i>  A pressure-relief device shall comply, as applicable, with the requirements of ASME PTC 25 or equivalent Canadian requirements.		N/A
<b>13</b>	<b>HAZARDOUS SITUATIONS and fault conditions</b>		N/A
<b>13.2</b>	<b>SINGLE FAULT CONDITIONS</b>		N/A
<b>13.2.9</b>	<b>Interruption and short circuiting of motor capacitors</b>		N/A
	<i>[Replace the second paragraph of the compliance statement in the adopted Standard with the following]</i>  The test with a short-circuited capacitor is not performed if the motor is provided with a capacitor that complies with IEC 60252-1 or is included as part of the evaluation of the motor in accordance with CSA C22.2 No. 100, and the ME EQUIPMENT is not intended for unattended use (including automatic or remote control).		N/A
	For additional test criteria, see Clause 13.2.10.		N/A
<b>15</b>	<b>Construction of ME EQUIPMENT</b>		P
<b>15.4</b>	<b>ME EQUIPMENT components and general assembly</b>		N/A
<b>15.4.1</b>	<b>Construction of connectors</b>		N/A
	<i>[Add the following item]</i>		N/A
	bA) The point of connection of gas cylinders to ME EQUIPMENT is gas-specific and clearly identified so that errors are avoided when a replacement is made. Medical gas inlet connectors on ME EQUIPMENT shall be:		N/A
	i) gas-specific, yoke type, or nut and nipple type valve connections complying with CGA V-1 for pressures over 1380 kPa (200 psi); or		N/A
	ii) DISS type complying with CGA V-5 for pressures 1380 kPa (200 psi) or less and configured to permit the supply of medical gases from low-pressure connecting assemblies complying with CAN/CSA-Z5359		N/A
	<b>Note:</b> Users of this Standard should consult the CSA Z305 series of Standards, CAN/CSA-Z9170-1, ISO 9170-2, CAN/CSA-Z10524, and CAN/CSA-Z15002 for further information regarding inlet connectors; ISO 407 for requirements addressing yoke type valve connections; and ISO 32 for colour coding.		---
<b>15.4.8</b>	<b>Internal wiring of ME EQUIPMENT</b>		N/A
	<i>[Replace this Clause with the following]</i>		N/A
	Internal wiring of ME EQUIPMENT shall be in accordance with the Canadian Electrical Code, Part I.		N/A
	Except for flexible cord, equipment wire, control circuit insulated conductors, and cable, insulated		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	conductors shall be not smaller than No. 14 AWG when made of copper and not smaller than No. 12 AWG when made of aluminium.  <b>Note 1:</b> See the Canadian Electrical Code, Part I, Rule 4-002.		
	The maximum current that an equipment wire of a given size may carry shall be as specified in Table 12 of the Canadian Electrical Code, Part I.  <b>Note 2:</b> For additional information refer to the Canadian Electrical Code, Part I, Rule 4-014.		N/A
<b>15.5</b>	<b>MAINS SUPPLY TRANSFORMERS of ME EQUIPMENT and transformers providing separation in accordance with 8.5</b>		N/A
<b>15.5.1.3</b>	<b>Overload test</b>		N/A
	<i>[Replace the second and third dashed items of Item b) of Clause 15.5.1.3 in the adopted Standard with the following]</i>		N/A
	- Fuses not in accordance with IEC 60127-1 but in accordance with the CSA C22.2 No. 248 series of Standards:  30 min at the current according to the characteristics supplied by the fuse manufacturer, specifically the 30 min clearing-time current. If no 30 min clearing-time current data is available, the test current from Table 32 is used until THERMAL STABILITY is achieved.		N/A
	- Other protective device as per the Canadian Electrical Code, Part I: until THERMAL STABILITY at a current just below that which caused the device to operate in Item a).		N/A
	This portion of the overload test is concluded at the specified time or when a second protective device opens.		N/A
<b>16</b>	<b>ME SYSTEMS</b>		N/A
<b>16.1</b>	<b>General requirements for the ME SYSTEMS</b>		N/A
	<i>[Replace the paragraph that starts with "An ME SYSTEM shall provide:" with the following]</i>		N/A
	An ME SYSTEM shall be provided:		N/A
	- within the PATIENT ENVIRONMENT, the level of safety equivalent to ME EQUIPMENT complying with this CSA Group Standard; and		N/A
	- outside the PATIENT ENVIRONMENT, the level of safety equivalent to equipment complying with their respective CSA Group, IEC, or ISO safety Standards.		N/A
	<i>[Replace the third-last paragraph with the following]</i>  Non-ME EQUIPMENT, when used in an ME SYSTEM, shall comply with the CSA Group, IEC, or ISO safety Standards that are relevant to that equipment.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
<b>16.9</b>	<b>ME SYSTEM connections and wiring</b>		N/A
<b>16.9.2.1</b>	<b>MULTIPLE SOCKET-OUTLET</b>		N/A
	<i>[Replace the first sentence of Item c) of Clause 16.9.2.1 in the adopted Standard with the following]</i>		N/A
	c) The MULTIPLE SOCKET-OUTLET shall comply with CSA C22.2 No. 308 as applicable and the following requirements.		N/A
	<i>[Add the following note to Item d) in the Canadian deviations in the adopted Standard]</i>		N/A
	d) If the MULTIPLE SOCKET OUTLET is combined with a separating transformer, the following additional requirements shall apply:		N/A
	The separating transformer complies with this Standard.		N/A
	Alternatively, the separating transformer may comply with the requirements of CAN/CSA-E61558-2-1, except that the requirements of maximum RATED output power of 1 kVA and degree of protection IPX4 do not apply.		N/A
	Note 1: As a separating transformer is not a MAINS SUPPLY TRANSFORMER, it does not require more than BASIC INSULATION. Note 2: Limitation of output power is not explained in CAN/CSA-E61558-2-1 and the RATED output power is defined by the fuse in the installation and by the allowable power supply cable used. However, the characteristics of the separating transformer need to be carefully selected, taking into account the variations in the load current of the ME SYSTEM to ensure that the voltage supplied to the various items of the ME SYSTEM remains within the limits specified for the equipment. Note 3: For additional details refer to the Canadian Electrical Code, Part I, Diagrams 1 and 2.		N/A
	The separating transformer assembly shall be a CLASS I construction.		N/A
	The degree of protection against ingress of water as given in IEC 60529 is specified.		N/A
	The separating transformer assembly shall be marked according to the requirements of 7.2 and 7.3.		N/A
	The MULTIPLE SOCKET OUTLET is permanently connected to the separating transformer or,		N/A
	The socket-outlet of the separating transformer assembly shall be of a type that cannot accept MAINS PLUGS of any of the kinds identified in Canadian Electrical Code, Part I (see Figure I.1 and Figure I.2 of this Standard)		N/A
	<i>[Add the following item]</i>  dA) The MULTIPLE SOCKET OUTLET complies with the requirements of CSA C22.2 No. 42, CSA C22.2 No. 49, and Item d) of this Standard, as applicable.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

**Attachment 4: National difference of Switzerland**

	National standard reference: SN EN 60601-1:2006		
4	<p>Ordinance on environmentally hazardous substances SR 814.081, Annex 1.7, Mercury - Annex 1.7 of SR 814.81 applies for mercury.</p> <p>Switches containing mercury such as thermostats, relays and level controllers are not allowed.</p> <p>Ordinance on chemical hazardous risk reduction SR 814.81, Annex 2.15</p> <p>Batteries</p> <p>Annex 2.15 of SR 814.81 applies for batteries containing cadmium and mercury.</p> <p>Note: Ordinance relating to environmentally hazardous substances, SR 814.013 of 1986-06-09 is not longer in force and superseded by SR 814.81 of 2009-02-01 (ChemRRV).</p>	No such component.	N/A
4	<p>Supply cords of portable electrical appliances having a rated current not exceeding 10 A shall be provided with a plug complying with IEC 60884-1(3.ed.) + am1, SEV 1011 and one of the following dimension sheets:</p> <ul style="list-style-type: none"> <li>- SEV 6533-2:2009 Plug type 11, L + N, 250V 10A</li> <li>- SEV 6534-2:2009 Plug type 12, L + N + PE, 250V 10A</li> <li>- SEV 6532-2:2009 Plug type 15, 3L + N + PE, 250/400V 10A</li> </ul> <p>Supply cords of portable electrical appliances having a rated current not exceeding 16 A shall be provided with a plug complying with IEC 60884-1(3.ed.) + am1, SEV 1011 and one of the following dimension sheets:</p> <ul style="list-style-type: none"> <li>- SEV 5933-2:2009 Plug type 21 L + N, 250 V, 16A</li> <li>- SEV 5934-2:2009 Plug type 23 L + N + PE, 250 V, 16A</li> <li>- SEV 5932-2:2009 Plug type 25 3L + N + PE, 250/400V 16A</li> </ul> <p>NOTE 16 A plugs are not often used in Swiss domestic installation system.</p> <p>See TRF template regulatory requirements Switzerland on IECEE Website R.R. TRF templates.</p>	No supply cord.	N/A

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict

**Attachment 5: National difference of Japan**

<p align="center"><b>ATTACHMENT TO TEST REPORT IEC 60601-1</b>  <b>JAPAN NATIONAL DIFFERENCES</b>  <b>MEDICAL ELECTRICAL EQUIPMENT - PART 1: GENERAL REQUIREMENTS FOR BASIC SAFETY AND ESSENTIAL PERFORMANCE</b></p>			
<b>Differences according to</b> ..... : National standard JIS T 0601-1:2017 (IEC 60601-1:2005 + A1:2012(MOD))			
<b>Attachment Form No.</b> ..... : JP_ND_IEC60601_1P			
<b>Attachment Originator</b> ..... : TÜV Rheinland Japan Ltd.			
<b>Master Attachment</b> ..... : 2019-05-03			
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	<b>National Differences</b>		<b>P</b>
1.3	In NOTE 3, add the following: In Japan, to check the corresponding Japanese Industrial Standard(s) is required.		—
1.4	At the end of NOTE, add the following: In Japan, to check the corresponding Japanese Industrial Standard(s) is required.		—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>Replace the listed standards with the followings:</p> <p>JIS B 7761-3, Hand-transmitted vibration - Part 3: General requirements for measurement and evaluation</p> <p>NOTE: ISO 5349-1, Mechanical vibration - Measurement and evaluation of human exposure to hand-transmitted vibration - Part 1: General requirements (IDT)</p> <p>JIS B 9718:2013, Safety of machinery - Safety distances to prevent hazard zone being reached by upper and lower limbs</p> <p>NOTE: ISO 13857:2008, Safety of machinery -- Safety distances to prevent hazard zones being reached by upper and lower limbs (IDT)</p> <p>JIS C 0445, Identification of equipment terminals and of terminations of certain designated conductors, including general rules for an alphanumeric system</p> <p>NOTE: IEC 60445, Basic and safety principles for man-machine interface, marking and identification - Identification of equipment terminals, conductor terminations and conductors (IDT)</p> <p>JIS C 0447, Man-machine interface (MMI) - Actuating principles</p> <p>NOTE: IEC 60447, Basic and safety principles for man-machine interface, marking and identification - Actuating principles (IDT)</p> <p>JIS C 0920:2003, Degrees of protection provided by enclosures (IP Code)</p> <p>NOTE 1: IEC 60529:2001, Degrees of protection provided by enclosures (IP Code) (IDT)</p> <p>NOTE 2: According to IEC60601-1:2005, IEC 60529:1989 and Amendment 1:1999 are listed as Normative references, however, the latest edition is edition 2.1 issued in 2001 and the corresponding Japanese Industrial standard was listed as normative reference.</p> <p>JIS C 1509-1, Electroacoustics - Sound level meters - Part 1: Specifications</p> <p>NOTE: IEC 61672-1, Electroacoustics - Sound level meters - Part 1: Specifications (IDT)</p> <p>JIS C 1509-2, Electroacoustics - Sound level meters - Part 2: Pattern evaluation tests</p> <p>NOTE: IEC 61672-2, Electroacoustics - Sound level meters - Part 2: Pattern evaluation tests (IDT)</p>		—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>JIS C 2134, Method for the determination of the proof and the comparative tracking indices of solid insulating materials</p> <p>NOTE: IEC 60112, Method for the determination of the proof and the comparative tracking indices of solid insulating materials (IDT)</p> <p>JIS C 3301:2000, Rubber insulated flexible cords</p> <p>NOTE: IEC 60245-4:1994, Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4: Cords and flexible cables, Amendment 1:1997 (NEQ)</p> <p>JIS C 3306:2000, Polyvinyl chloride insulated flexible cords</p> <p>NOTE: IEC 60227-5:1997, Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 5: Flexible cables (cords) (NEQ)</p> <p>JIS C 4003, Electrical insulation - Thermal evaluation and designation</p> <p>NOTE: IEC 60085, Electrical insulation - Thermal evaluation and designation (MOD)</p> <p>JIS C 5101-14:2009, Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains</p> <p>NOTE: IEC 60384-14:2005, Fixed capacitors for use in electronic equipment - Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains (IDT)</p> <p>JIS C 6065:2013, Audio, video and similar electronic apparatus - Safety requirements</p> <p>NOTE: IEC 60065:2001, Audio, video and similar electronic apparatus - Safety requirements, Amendment 1:2005 and Amendment 2:2010 (MOD)</p> <p>JIS C 6802:2011, Safety of laser products</p> <p>NOTE: IEC 60825-1:2007, Safety of laser products - Part 1: Equipment classification and requirements (IDT)</p> <p>JIS C 6950-1:2012, Information technology equipment - Safety - Part 1: General requirements</p> <p>NOTE: IEC 60950-1:2005, Information technology equipment - Safety - Part 1: General requirements (MOD)</p> <p>JIS C 6965, Mechanical safety of cathode ray tubes</p> <p>NOTE: IEC 61965, Mechanical safety of cathode ray tubes (IDT)</p>		—



IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>JIS C 8282-1, Plugs and socket-outlets for household and similar purposes - Part 1: General requirements</p> <p>NOTE: IEC 60884-1, Plugs and socket-outlets for household and similar purposes - Part 1: General requirements (MOD)</p> <p>JIS C 8303, Plugs and receptacles for domestic and similar general use</p> <p>NOTE: No corresponding International standard exists. This standard has been listed as normative reference corresponding to IEC/TR 60083, Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC, which has been listed in IEC 60601-1:2005. Refer to JIS T 1021, too.</p> <p>JIS C 60068-2-2:2010, Environmental testing - Part 2-2: Tests - Test B: Dry heat</p> <p>NOTE: IEC 60068-2-2:2007, Environmental testing - Part 2-2: Tests - Tests B: Dry heat (IDT)</p> <p>JIS C 60079-0, Explosive atmospheres - Part 0: Equipment - General requirements</p> <p>NOTE: IEC 60079-0, Explosive atmospheres - Part 0: Equipment - General requirements (IDT)</p> <p>JIS C 60079-2, Electrical apparatus for explosive gas atmospheres - Part 2: Pressurized enclosure "p"</p> <p>NOTE: IEC 60079-2, Explosive atmospheres - Part 2: Equipment protection by pressurized enclosures "p" (IDT)</p> <p>JIS C 60079-6, Electrical apparatus for explosive gas atmospheres - Part 6: Oil immersion "o"</p> <p>NOTE: IEC 60079-6, Explosive atmospheres - Part 6: Equipment protection by oil immersion "o" (IDT)</p> <p>JIS C 60364-4-41, Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock</p> <p>NOTE: IEC 60364-4-41, Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock (IDT)</p> <p>JIS C 60664-1:2009, Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests</p> <p>NOTE: IEC 60664-1:2007, Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests (IDT)</p>		—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>JIS C 60695-11-10, Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods</p> <p>NOTE: IEC 60695-11-10, Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods (IDT)</p> <p>JIS T 0601-1-3, Medical electrical equipment - Part 1-3: General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment</p> <p>NOTE: IEC60601-1-3, Medical electrical equipment - Part 1-3: General requirements for basic safety and essential performance - Collateral standard: Radiation protection in diagnostic X-ray equipment (IDT)</p> <p>JIS T 0801-1:2010, Sterilization of health care products - Ethylene oxide - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices</p> <p>NOTE: ISO 11135-1:2007, Sterilization of health care products - Ethylene oxide - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices (IDT)</p> <p>JIS T 0806-1:2010, Sterilization of health care products - Radiation - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices</p> <p>NOTE: ISO 11137-1:2006, Sterilization of health care products - Radiation - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices (IDT)</p> <p>JIS T 0816-1:2010, Sterilization of health care products - Moist heat - Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices</p> <p>NOTE: ISO 17665-1:2006, Sterilization of health care products - Moist heat - Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices (IDT)</p> <p>JIS T 2304:2012, Medical device software - Software life cycle processes</p> <p>IEC62304:2006, Medical device software - Software life cycle processes (IDT)</p> <p>JIS T 14971:2012, Medical devices - Application of risk management to medical devices</p> <p>NOTE: ISO 14971:2007, Medical devices - Application of risk management to medical devices (IDT)</p>		—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>JIS T 60601-1-8, Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems</p> <p>NOTE: IEC60601-1-8, Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems (IDT)</p> <p>JIS Z 8000 (all parts), Quantities and units</p> <p>NOTE: ISO 80000-1, Quantities and units - Part 1: General</p> <p>JIS Z 8736-1, Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 1: Measurement at discrete points</p> <p>NOTE: ISO 9614-1, Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 1: Measurement at discrete points (IDT)</p> <p>JIS Z 9101:2005, Safety colours and safety signs - Design principles for safety signs in workplaces and public areas</p> <p>NOTE: ISO 3864-1:2002, Graphical symbols - Safety colours and safety signs - Part 1: Design principles for safety signs in workplaces and public areas (IDT)</p> <p>ISO 780, Packaging - Distribution packaging - Graphical symbols for handling and storage of packages</p> <p>NOTE: JIS Z 0150 Packaging - Distribution packaging - Graphical symbols for handling and storage of packages (MOD)</p> <p>ISO 1853, Conducting and dissipative rubbers, vulcanized or thermoplastic - Measurement of resistivity</p> <p>NOTE: JIS K 6271-2 Rubber, vulcanized or thermoplastic - Determination of resistivity – Part 2: Parallel terminal electrode system (MOD)</p> <p>ISO 2878, Rubber, vulcanized or thermoplastic - Antistatic and conductive products - Determination of electrical resistance</p> <p>ISO 2882:1979, Rubber, vulcanized - Antistatic and conductive products for hospital use - Electrical resistance limits</p>		—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>ISO 3746, Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure – Survey method using an enveloping measurement surface over a reflecting plane</p> <p>ISO 7000-DB:2004, Graphical symbols for use on equipment - Index and synopsis NOTE: "DB" indicated ISO-IEC jointed online database.</p> <p>ISO 7010:2011, Graphical symbols - Safety colours and safety signs - Registered safety signs</p> <p>ISO 10993 (all parts), Biological evaluation of medical devices NOTE: JIS T 0993-1 Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process (MOD). However, other Parts than Part 1 and Part 7 have still not been published as JIS.</p> <p>ISO 15223-1:2012 , Medical devices -- Symbols to be used with medical device labels, labelling and information to be supplied -- Part 1: General requirements</p> <p>ISO 23529, Rubber -- General procedures for preparing and conditioning test pieces for physical test methods NOTE: JIS K 6250, Rubber -- General procedures for preparing and conditioning test pieces for physical test methods (MOD)</p> <p>IEC 60079-5, Explosive atmospheres — Part 5: Equipment protection by powder filling "q"</p> <p>IEC 60086-4, Primary batteries - Part 4: Safety of lithium batteries NOTE: JIS C 8513 Safety of primary lithium batteries (MOD)</p> <p>IEC 60127-1, Miniature fuses - Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links NOTE: JIS C 6575-1 Miniature fuses - Part 1: Definitions of miniature fuses and general requirements for miniature fuse-links (MOD)</p>		—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>IEC 60227-1:2007, Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 1: General requirements NOTE: JIS C 3662-1:2009 Polyvinyl chloride insulated cables of rated voltages up to and including 450/750V - Part 1: General requirements (MOD)</p> <p>IEC 60245-1:2003, Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 1: General requirements and Amendment 1:2007 NOTE: The corresponding JIS standard: None JIS C 3663-1:2010 Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 1: General requirements (MOD) corresponds to IEC 60245-1:2008.</p> <p>IEC 60252-1, AC motor capacitors - Part 1: General - Performance, testing and rating - Safety requirements - Guidance for installation and operation</p> <p>IEC 60320-1, Appliance couplers for household and similar general purposes - Part 1: General requirements NOTE: JIS C 8283-1 Appliance couplers for household and similar general purposes - Part 1: General requirements (MOD)</p> <p>IEC 60335-1:2010, Household and similar electrical appliances - Safety - Part 1: General requirements NOTE: The corresponding JIS standard: None JIS C 9335-1:2003 Household and similar electrical appliances - Safety - Part 1 : General requirements (MOD) corresponds to IEC 60335-1:2001.</p> <p>IEC 60417, Graphical symbols for use on equipment</p> <p>IEC 60601-1-2:2001, Medical electrical equipment - Part 1-2: General requirements for safety - Collateral standard: Electromagnetic compatibility - Requirements and tests NOTE 1: The current "JIS T 0601-1-2:2012 Medical electrical equipment - Part 1-2: General requirements for safety - Electromagnetic compatibility - Requirements and tests" corresponds to IEC 60601-1-2:2001 and Amendment 1:2004. NOTE 2: Currently, IEC 60601-1-2 Ed 2.1:2004 or IEC 60601-1-2 Ed 3:2007 is used in other countries.</p>		—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>IEC 60601-1-6, Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability NOTE: As the corresponding international standard, IEC 62336 is applicable.</p> <p>IEC 60730-1:2010, Automatic electrical controls for household and similar use - Part 1: General requirements  NOTE: The corresponding JIS standard: None JIS C 9730-1:2010 Automatic electrical controls for household and similar use - Part 1: General requirements (MOD) corresponds to IEC 60730-1:1999, Amendment 1: 2003 and Amendment 2:2007</p> <p>IEC 60851-3:2009, Winding wires - Test methods - Part 3: Mechanical properties NOTE: JIS C 3216-3:2011, Winding wires - Test methods - Part 3: Mechanical properties (MOD)</p> <p>IEC 60851-5:2008, Winding wires - Test methods - Part 5: Electrical properties NOTE: JIS C 3216-5:2011, Winding wires - Test methods - Part 5: Electrical properties (MOD)</p> <p>IEC 60851-6:1996, Methods of test for winding wires - Part 6: Thermal properties and Amendment 1:1997</p> <p>IEC 61058-1:2000, Switches for appliances - Part 1: General requirements, Amendment 1:2001 and Amendment 1:2007 NOTE: The corresponding JIS standard: None JIS C 4526-1:2013 Switches for appliances - Part 1: General requirements (MOD) corresponds to IEC 61058-1:2008</p> <p>IEC 61558-2-1, Safety of power transformers, power supplies, reactors and similar products - Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications NOTE: JIS C 61558-2-1 Safety of power transformers, power supplies, reactors and similar products - Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications (MOD)</p>		—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
2	IEC 62133, Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications NOTE: JIS C 8712:2015 Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications (MOD) was created changing the technical contents of IEC 62133:2012.  IEC 62366:2014, Medical devices - Application of usability engineering to medical devices		—
3.9	Add NOTE as follows: NOTE 2 IEV stands for International Electrotechnical Vocabulary		—
3.50	Replace NOTE 2 as follows: NOTE 2 See also JIS C 8303 and IEC 60309-1 and JIS T 1021.		—
3.61	Add NOTE as follows: NOTE In this standard, MECHANICAL HAZARD is suitably understandable by replacing mechanical HAZARD with mechanical HAZARDOUS SITUATION, HARM or unacceptable RISK.		—
3.70	Replace the existing text with: condition in which all means provided for protection against HAZARDOUS SITUATIONS or HARM are intact		—
4.10.1	In the existing text, replace “a separate power supply” with “a separate power supply (e.g. a power supply of other equipment)”.		—
7.3.3	Replace the third paragraph with: Where lithium batteries or fuel cells are incorporated and where incorrect replacement would result in an unacceptable RISK, a warning indicating that replacement by inadequately trained personnel could result in a HAZARDOUS SITUATION (such as excessive temperatures, fire or explosion) shall be given in addition to the identifying marking referring to information stated in the ACCOMPANYING DOCUMENTS.	No lithium batteries or fuel cells.	N/A
7.3.4	Add the following NOTE NOTE Corresponding Japanese Industrial Standard for IEC 60127-1: JIS C 6575-1:2009		—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
7.4.3	<p>Replace the existing first paragraph with the following:            Numeric indications of parameters on ME EQUIPMENT shall be expressed in SI units according to JIS Z 8000 (all parts) except the base quantities listed in Table 1 may be expressed in the indicated units, which are used in conjunction with the SI units system or as the approved combination.</p> <p>Replace the title of Table 1 with the following:            Units which are used in conjunction with the SI units system or as the approved combination</p> <p>Replace "a" of Table 1 with the following note:            Note: For consistency, in international standards only the symbol "l" is used for litre, although the symbol "L" is also given in JIS Z 8000 (all parts).</p>	No numeric indications of parameters.	N/A
7.7.4	<p>Under the existing text, add the following:            If polyvinyl chloride insulated flexible cord of JIS C 3306 or rubber insulated flexible cord of JIS C 3301 is used, the conductor may be coloured "white".</p>		N/A
7.7.5	<p>Under the existing text, add the following:            If polyvinyl chloride insulated flexible cord of JIS C 3306 or rubber insulated flexible cord of JIS C 3301 is used, conductors may be of the colour specified in the these standards.</p>		N/A
7.9.3.2	<p>Replace the fourth dash with:            – where replacement of a component could result in an unacceptable RISK, appropriate warnings that identify the nature of the HAZARDOUS SITUATION and, if the MANUFACTURER specifies the component as replaceable by SERVICE PERSONNEL, all information necessary to safely replace the component.</p>		N/A
8.8.2	<p>For a), add the following NOTE:            NOTE – Generally, "distance through insulation" means the thickness of insulation. However, for example, if a transformer installed into a metal case is insulated by filler, the thickness is not always uniformly. Therefore, such expression was used.</p>		P
8.8.3	<p>Between the third dash and the paragraph of "Initially, not more than --", add the following new paragraph.            During the above-mentioned tests, the state of the power switch shall be kept closed.</p>		P
8.9.1.2	At the end of the title of this sub-clause, add "(Apply to MOOP)".		—
8.9.1.3	At the end of the title of this sub-clause, add "(Apply to MOOP)".		—
8.9.1.4	At the end of the title of this sub-clause, add "(Apply to MOOP)".		—



IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.9.1.5	At the end of the title of this sub-clause, add "(Apply to MOOP and MOPP)".		—
8.9.1.6	At the end of the title of this sub-clause, add "(Apply to MOOP and MOPP)".		—
8.9.1.7	At the end of the title of this sub-clause, add "(Apply to MOOP)".		—
8.9.1.8	At the end of the title of this sub-clause, add "(Apply to MOOP)".		—
8.9.1.9	At the end of the title of this sub-clause, add "(Apply to MOOP)".		—
8.9.1.10	At the end of the title of this sub-clause, add "(Apply to MOOP)".		—
8.9.1.11	At the end of the title of this sub-clause, add "(Apply to MOOP)".		—
8.9.1.12	At the end of the title of this sub-clause, add "(Apply to MOOP)".		—
8.9.1.13	At the end of the title of this sub-clause, add "(Apply to MOOP)".		—
8.9.1.14	At the end of the title of this sub-clause, add "(Apply to MOOP)".		—
8.11.3.2	<p>Add the following between the first paragraph and the second paragraph:  And, rubber insulated flexible cords of JIS C 3301, polyvinyl chloride insulated flexible cords of JIS C 3306 or cords of which the robustness is equal to or more than those are usable.  Add the following between the second paragraph and the last paragraph:  And, in the case of cords of JIS C 3306, shall not use;  for polyvinyl chloride insulated flexible cords, if the temperature of the above-mentioned external metal part exceeds 60 °C, and;  for grade heat-resistant polyvinyl chloride insulated flexible cords, if the temperature of the above-mentioned external metal part exceeds 75 °C.</p>		N/A
9.2.2.2	<p>In the bottom column of Table 20, replace the existing text with the following:  <sup>a</sup> The values in this table are taken from JIS B 9718:2013.</p>		—
9.2.4	In e), replace a further "MECHANICAL HAZARD" and the original "HAZARD" with a further "HAZARDOUS SITUATION" and the original "HAZARDOUS SITUATION", respectively.		—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
9.3	Replace the NOTE 2: A sharp edge MECHANICAL HAZARD could cut wire insulation which could lead to an electrical HAZARDOUS SITUATION. This requirement is intended to cover all these HAZARDS.		N/A
9.8.3.3	Figure 33: Replace the fourth sentence of the existing NOTE with the following and change "NOTE" to "NOTE 1": The resiliency or spring factor of the foam (ILD or IFD ratings) has not been specified. Add the following NOTE: NOTE 2: NOTE 1 above stated that in the corresponding international standards, "when dropping the weight, the characteristics of the foam are probably not important, therefore The resiliency or spring factor of the foam (ILD or IFD ratings) is not specified." However, This expression is confusing, and it was modified.		N/A
10.1.1	Add in NOTE 1 "Current irradiation dose unit is not R unit, but Gy unit (air kerma), which corresponds to 1 mR/h $\approx$ 10 $\mu$ Gy/h." Replace (0,1 mR/h) with (0.1 mR/h $\approx$ 1 $\mu$ Gy/h) in NOTE 2."		—
10.5	Replace "other than that produced by lasers and light emitting diodes" with "other than that produced by lasers"		—
10.6	Replace "other than that produced by lasers and light emitting diodes" with "other than that produced by lasers"		—
10.7	Replace "other than that produced by lasers and light emitting diodes" with "other than that produced by lasers"		—
11.1.1	To the existing text of a in the Table 22, add the following: (For example, the maximum temperature limit of a transformer with three insulating materials of Class A, Class B and Class E shall be the lowest limit 105 °C of Class A.)		P
13.2.10	In Table 26, replace the existing NOTE with the following: NOTE The temperature limits in this table were derived from Table B.1 of JIS C 6950-1:2012 (in the corresponding international standard, IEC 61010-1:2001 [22]).		—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
16.1	<p>Replace the last two paragraphs with the following:  Otherwise, non-ME EQUIPMENT shall be those which are in compliance with relevant JIS standards or the Technical Requirements of the Electrical Appliance and Material Safety Act or which ensure safety equivalent to the said standards/technical requirements.  Equipment in which protection against electric shock relies only on BASIC INSULATION shall not be used in an ME SYSTEM.  For the measures for ensuring safety, e.g. the case combined with a separating transformer with DOUBLE INSULATION or RAINFORCED INSULATION, equipment only with BASIC INSULATION may be used.  <i>Compliance is checked by inspection of appropriate documents or certificates.</i></p>		N/A
16.6.4.1	In NOTE, replace “no possibility of any HAZARD” with “no possibility of any HAZARDOUS SITUATION”.		—
16.9.2.1	In the text of c), replace “IEC 60884-1” with “IEC 60884-1 or JIS C 8282-1”.		—
Annex I	<p>In I.1.3, replace the first dash with the following:  - PATIENTS should only be connected to APPLIED PARTS of ME EQUIPMENT complying with this standard. Other equipment should comply with relevant IEC or ISO standards or comply with relevant JIS safety standards or the Technical Requirements of the Electrical Appliance and Material Safety Act, or ensure safety equivalent to the said standards/technical requirements.  Replace the existing NOTE 2 with the following:  NOTE 2 IEC 60601: MEDICAL ELECTRICAL EQUIPMENT in compliance with IEC 60601 (all parts) or JIS T 0601 (all parts).  Replace the existing NOTE 3 with the following:  NOTE 3 IEC xxxxx: Non-medical equipment in compliance with relevant IEC safety standards.  Include non-medical equipment in compliance with relevant JIS safety standards or the Technical Requirements of the Electrical Appliance and Material Safety Act, or non-medical equipment ensuring safety equivalent to the said standards/technical requirements.</p>		N/A
Annex L	In the first paragraph, replace “wound components” with “wound components (e.g. transformers, motors, etc.)”		—