

Test Report issued under the responsibility of:



TEST REPORT IEC 60601-1

Part 1: General requirements for basic safety and essential performance

Report Number. 200402485SHA-001

Date of issue: 2020-06-09

Total number of pages...... 141

Name of Testing Laboratory Intertek Testing Services Shanghai preparing the Report.....:

Test specification:

Standard...... IEC 60601-1:2005 (Third Edition) + CORR. 1 (2006) + CORR. 2

(2007) + AM1 (2012) or IEC 60601-1 (2012 reprint)

Test procedure: CB Scheme

Non-standard test method: N/A

Test Report Form No.....: IEC60601 1J PS

 Test Report Form(s) Originator:
 UL(US)

 Master TRF......
 2014-09

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Report No. 200402485SHA-001



Test item description:		al Power Supply		
Trade Mark:	G GIO	I GlobTek [®] , Inc.		
Manufacturer:	Same	me as applicant		
Model/Type reference:	GT*86		eneral product information for	
Ratings:		100-240V~, 50-60Hz or	50/60Hz, 0.3A;	
	Output	t: 5.95-24Vdc, Max.2.0A,	Max.12W	
Testing procedure and testing location	n:			
		Intertek Testing Services	s Shanghai	
Testing location/ address	:	Building No.86, 1198 Qi Shanghai, China	nzhou Road (North), 200233	
☐ Associated CB Testing Laborate	ory:			
Testing location/ address	:			
Tested by (name + signature)	:	Yann Yan	Yann, Yun	
		(Engineer)	yann yun	
Approved by (name + signature)	:	Larry Zhong	Lamy Zhong	
		(Mandated Reviewer)	Lamy Living	
		T		
Testing procedure: CTF Stage 1				
Testing location/ address	:			
Tested by (name + signature)	:			
Approved by (name + signature)	:			
Testing procedure: CTF Stage 2				
Testing location/ address				
Tested by (name + signature)				
Witnessed by (name + signature) Approved by (name + signature)				
Approved by (name + signature)				
Testing procedure: CTF Stage 3 or 4:				
Testing location/ address	:			
Tested by (name + signature)	:			
Witnessed by (name + signature)	:			
Approved by (name + signature)	:			
Supervised by (name + signature)	:			





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

Attachment 1: Photo of EUT (10 pages)

Attachment 2: Circuit diagram/ layout (2 pages)

Attachment 3: USA national differences (4 pages)

Attachment 4: Canada national differences (8 pages)

Attachment 5: Switzerland national differences (1 page)

Attachment 6: Korea national differences (1 page)

Attachment 7: Japan national differences (14 pages)

Summary of testing

Tests performed (name of test and test clause):

4.11 Power input

5.7 Humidity preconditioning treatment

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

8.7 Leakage current test

8.8.3 Dielectric strength test

8.8.4.1 Ball pressure test

8.9.4 Creepage and clearance measurements

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 Moulding Stress Relief

15.5.1.2 Transformer short-circuit test

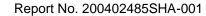
15.5.1.3 Transformer overload test

Testing location:

Intertek Testing Services Shanghai Building No. 86, 1198 Qinzhou Road (North), 200233 Shanghai,

China







Summary of compliance with National Differences

List of countries addressed:

Canada, USA, Switzerland, Korea, Japan

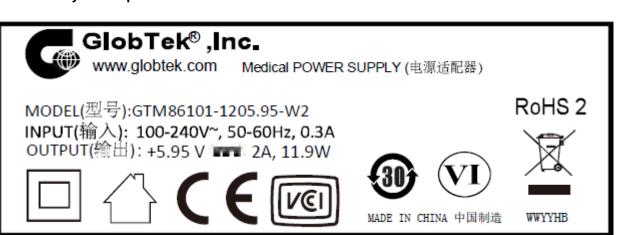
The group and national differences for the CENELEC countries, and the national differences for Canada, USA, Switzerland, Korea, Japan have been checked.

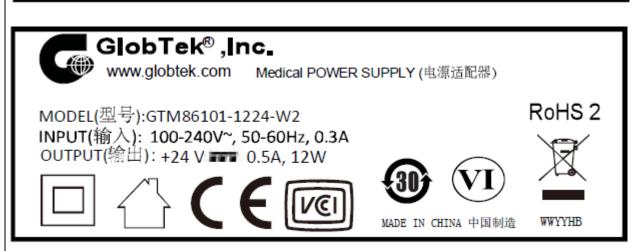
☐ The product fulfils the requirements of IEC 60601-1: 2005 + CORR. 1:2006 + CORR. 2:2007 + AM1:2012.



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.





Note: Other models are with similar label as corresponding above models except different model name and ratings.



GENERAL INFORMATION						
Test item particulars (see also Clause 6):						
Classification of installation and use:	Direct plug-in for power adapter model.					
Device type (component/sub-assembly/ equipment/ system):	Component					
Intended use (Including type of patient, application location):	PSU (external power adapter or internal power supply board)					
Mode of operation:	Continuous					
Supply connection	Direct plug-in for power adapter model.					
Accessories and detachable parts included:	None					
Other options include:	None					
Testing						
Date of receipt of test item(s):	2020-04-23					
Dates tests performed	2020-04-23 to 2020-06-08					
Possible test case verdicts:						
- test case does not apply to the test object:	N/A					
- test object does meet the requirement:	Pass (P)					
- test object was not evaluated for the requirement	N/E (collateral standards only)					
- test object does not meet the requirement:	Fail (F)					
Abbreviations used in the report:						
- normal condition: N.C.	- single fault condition: S.F.C.					
- means of Operator protection: MOOP	- means of Patient protection: MOPP					
General remarks:						
"(See Attachment #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. The tests 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 testing laboratory. List of test equipment must be kept on file and available for review. Additional test data and/or information provided in the attachments to this report.						
Throughout this report a \square comma / \boxtimes point is used as th	ne decimal separator.					
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Additional test data and/or information may be provided in the attachments to this report.						



Report No. 200402485SHA-001



Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:2012					
The application for obtaining a CB Test Certificate	⊠ Yes				
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:	☐ Not applicable				
When differences exist; they shall be identified in the	ne General product information section.				
Name and address of factory (ies):	Factory 1				
	GlobTek, Inc.				
	186 Veterans Dr. Northvale, NJ 07647 USA				
	Factory 2				
	GlobTek (Suzhou) Co., Ltd				
	Building 4, No. 76, JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu 215021, China				



General product information:

Product covered by this report is medical power supply module.

All models have the same circuit diagram, PCB layout and transformer.

All models can be output Max. 12W power, all electronic components are mounted on minimum V-1 PWB and housed sealed inside the plastic enclosure.

All the types are designed for continuous operation and no applied part is defined.

Altitude: 5000m.

Only European plug and North American plug were evaluated in this report.

Model similarity:

GT*86101-***-W2***:

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 "12", with interval of 1.

The 3rd "*" denotes the standard rated output voltage designation, which can be "05.95", "07.5", "09", "12.0", "15.0", "24.0" or "5.95", "7.5", "9.0", "12", "15", "24".

The 4th "*" is optional deviation, subtracted from standard output voltage, which can be "-0.01" to "-8.9" 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 5.95 -24Vdc.

The 5th "*" designates type of plug and can be E for European plug, U for British plug, blank for North American/Japan plug/Taiwan plug, C for China plug, A for Australia plug, K for Korea plug, I for India plug, AR for Argentina plug, BR for Brazil plug, SA or AF for South African plug.

The 6th "*" can be "-USB "or blank, -USB denote the power supplies use USB port. When it is blank, denote the power supplies use DC output wires.

The last "*" can be any six character 0 to 9 or A to Z, "()", "[]", "-" or blank for marketing purpose.

Ratings:

Input: 100-240V~, 50-60Hz or 50/60Hz, 0.3A Output: 5.95-24VDC; Max.2.0A; Max.12W

Model list

Model	Output Voltage	Max. output current	Max. output power
GT*86101-*05.95-W2*** GT*86101-*5.95-W2***	5.95Vdc	2.0A	12W
GT*86101-*07.5*-W2*** GT*86101-*7.5*-W2***	5.96-7.5Vdc	2.0A	12W
GT*86101-*09*-W2*** GT*86101-*9.0*-W2***	7.51V-9Vdc	1.59A	12W
GT*86101-*12*-W2*** GT*86101-*12.0*-W2***	9.01-12Vdc	1.33A	12W
GT*86101-*15*-W2*** GT*86101-*15.0*-W2***	12.01-15Vdc	0.99A	12W
GT*86101-*24*-W2*** GT*86101-*24.0*-W2***	15.01-24Vdc	0.79A	12W

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 14 (PEMS),
- Clause 16 (ME Systems)
- Risk Management was excluded from this investigation.



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

INSULATION DIAGRAM

Class II / Double insulated

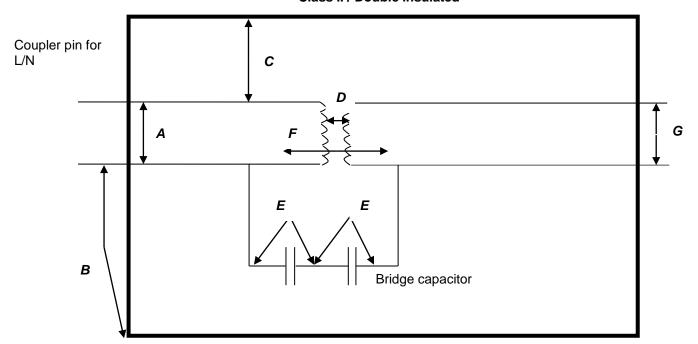


TABLE: INSULATION DIAGRAM							Р			
Pollu	tion degree			:	2					_
Overvoltage category::				:	II					_
Altitude::				:	5000m					_
Additional details on parts considered as applied parts:			⊠ None (See Claus	Areas _ e 4.6 for de				_		
Area	Number and type of Means of Protection: MOOP, MOPP	СТІ		king age V _{pk}	Required creepage (mm)	-	Measured creepage (mm)	Measured clearance (mm)		Remarks
Α	1MOOP	IIIb	240	340	2.96	2.96	3.12	3.12	ро	oposite larity of ains part
В	2MOPP	IIIb	240		7.84	6.45	8.81	8.81	(pl ou en (ad po	nins part lug pin) to ter closure ccessible sition iring normal



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

									use)
С	2MOPP	IIIb	240	340	7.84	6.45	8.81	8.81	Internal mains part to accessible outer enclosure
D	2MOPP	IIIb	290		9.07	9.03	9.20	9.20	Mains part to secondary circuits (Transformer)
E	1MOPP (Each) x 2	IIIb	130		3.04	2.06	5.12	5.12	Mains part to secondary circuits (Y capacitor x 2)
F	2MOPP	IIIb	240		7.68	6.45	9.10	9.10	Mains part to secondary circuits (Along PCB trace)
G	2МООР	IIIb		Max. 48Vdc					Accessible part per 8.4.2 c)

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.
- A CREEPAGE DISTANCE cannot be less than the required air clearance.

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.



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

4	GENERAL REQUIREMENTS		Р
4.1	Requirements of this standard applied in NORMAL USE and reasonably foreseeable misuse		Р
4.2	RISK MANAGEMENT PROCESS FOR ME EQUIPMENT OR ME SYSTEMS	See Appended RM Results Table 4.2	Р
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	N/A
4.4	EXPECTED SERVICE LIFE stated in RISK MANAGEMENT FILE:	Risk Management Report 6.1.19 5years	Р
4.5	Alternative means of addressing particular RISKS considered acceptable based on MANUFACTURER'S justification that RESIDUAL RISKS resulting from application of alternative means are comparable to the RESIDUAL RISKS resulting from requirements of this standard	No alternative risk control method.	N/A
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.	N/A
4.7	ME EQUIPMENT remained SINGLE FAULT SAFE, or the RISK remained acceptable as determined by Clause 4.2:	See the attachment PFMEA GTFMP01009 A.2	Р
	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 the attachment PFMEA GTFMP01009 A.2	Р
	RISK associated with failure of component during EXPECTED SERVICE LIFE of ME EQUIPMENT taken into account to evaluate if a component should be subjected to failure simulation	See Appended Table 13.2 for simulated physical test	Р
4.8	All components and wiring whose failure could result in a HAZARDOUS SITUATION used according to their applicable ratings, unless specified:		N/A
	Components and wiring exception in the standard or by RISK MANAGEMENT PROCESS		N/A
	Reliability of components used as MEANS OF PROTECTION assessed for conditions of use in ME EQUIPMENT, and they complied with one of the following		N/A
	a) Applicable safety requirements of a relevant IEC or ISO standard		N/A



	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	b) Requirements of this standard applied in the absence of a relevant IEC or ISO standard		N/A
4.9	A COMPONENT WITH HIGH-INTEGRITY CHARACTERISTICS provided because a fault in a particular component can generate an unacceptable RISK		N/A
	COMPONENTS WITH HIGH-INTEGRITY CHARACTERISTICS selected and evaluated consistent with their conditions of use and reasonable foreseeable misuse during EXPECTED SERVICE LIFE of ME EQUIPMENT by reviewing RISK MANAGEMENT FILE		N/A
4.10	Power supply		Р
4.10.1	ME EQUIPMENT is suitable for connection to a SUPPLY MAINS, specified to be connected to a separate power supply, can be powered by an INTERNAL ELECTRICAL POWER SOURCE, or a combination of the three:	Suitable for connection to a SUPPLY MAINS.	Р
4.10.2	Maximum rated voltage for ME EQUIPMENT intended to be connected to SUPPLY MAINS:		Р
	- 250 V for hand-held me equipment (V):	Not hand-held equipment.	N/A
	- 250 V d.c. or single-phase a.c., or 500 V polyphase a.c. for ME EQUIPMENT and ME SYSTEMS with a RATED input ≤ 4 kVA (V):	100-240Vac, single phase, less than 4KVA	Р
	- 500 V for all other ME EQUIPMENT and ME SYSTEMS	100-240Vac, single phase, less than 4KVA	N/A
4.11	Power input		Р
	Steady-state measured input of ME EQUIPMENT or ME SYSTEM at RATED voltage and at operating settings indicated in instructions for use didn't exceed marked rating by more than 10%:	See appended Table 4.11	Р
	- Measurements on ME EQUIPMENT or a ME SYSTEM marked with one or more RATED voltage ranges made at both upper and lower limits of the range	See appended Table 4.11	Р
	Measurements made at a voltage equal to the mean value of the range when each marking of RATED input was related to the mean value of relevant voltage range	No such marking.	N/A
	Power input, expressed in volt-amperes, measured with a volt-ampere meter or calculated as the product of steady state current (measured as described above) and supply voltage	See appended Table 4.11	Р



	IEC 60601-1							
Clause	Requirement + Test	Result - Remark	Verdict					
	OFNEDAL DECUIDEMENTS FOR TESTINO ME	OLUDAÇAT	D					
5	GENERAL REQUIREMENTS FOR TESTING ME E	QUIPMENT	P					
5.1	TYPE TESTS determined in consideration of Clause 4, in particular 4.2		Р					
	Test not performed when analysis indicated condition being tested was adequately evaluated by other tests or methods:		N/A					
	RISK MANAGEMENT FILE identified combinations of simultaneous independent faults that could result in a HAZARDOUS SITUATION.		N/A					
5.2	TYPE TESTS conducted on one representative sample under investigation; multiple samples used simultaneously when validity of results was not significantly affected	Type test on single representative sample.	Р					
5.3	a) Tests conducted within the environmental conditions specified in technical description		Р					
	Temperature (°C), Relative Humidity (%):		1					
	Atmospheric Pressure (kPa):		ı					
	b) ME EQUIPMENT shielded from other influences that might affect the validity of tests		Р					
	c) Test conditions modified and results adjusted accordingly when ambient temperature could not be maintained:	Considered in temperature test	Р					
5.4	a) ME EQUIPMENT tested under least favourable working conditions specified in instructions for use		N/A					
	b) ME EQUIPMENT with adjustable or controlled operating values by anyone other than SERVICE PERSONNEL adjusted to values least favourable for the relevant test per instructions for use	EUT is component power supply, not adjustable.	N/A					
	c) When test results influenced by inlet pressure and flow or chemical composition of a cooling liquid, tests performed within the limits in technical description	No cooling liquid used.	N/A					
	d) Potable water used for cooling	No cooling water used.	N/A					
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	Р					
	b) ME EQUIPMENT marked with a RATED frequency range tested at the least favourable frequency within the range (Hz):	50/60Hz considered	Р					



	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	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, 50/60Hz considered	Р
	d) ME EQUIPMENT intended for only d.c. supply connection tested with d.c. and influence of polarity considered:	No d.c supply connection	N/A
	e)ME EQUIPMENT tested with alternative ACCESSORIES and components specified in ACCOMPANYING DOCUMENTS to result in the least favourable conditions:	No alternative accessory	N/A
	f) ME EQUIPMENT connected to a separate power supply as specified in instructions for use	No separate power supply used	N/A
5.6	When failure occurred or probability of future failure detected during sequence of tests, per agreement with manufacturer, all tests affecting results conducted on a new sample	No such condition	N/A
	Alternatively, upon repair and modification of the sample, only the relevant tests conducted	No such condition	N/A
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.	Р
	Manually detachable parts removed and treated concurrently with major parts and manually removable ACCESS COVERS were opened and detached	No such part.	N/A
	ME EQUIPMENT heated to a temperature between T and T + 4°C for at least 4 h and placed in a humidity chamber (relative humidity 93%±3%) and an ambient within 2 °C of T in the range of + 20 °C to + 32 °C for 48 h for units rated IPX0		Р
	- For units rated higher than IPX0 test time extended to 168 h:	Pre-condition performed: 26°C, 93%RH for 168 h	Р
5.8	Unless stated otherwise, tests in this standard sequenced as in Annex B to prevent influencing results of any subsequent test		Р
5.9	Determination of APPLIED PARTS and ACCESSIBLE PA	ARTS	Р
5.9.1	APPLIED PARTS identified by inspection and reference to ACCOMPANYING DOCUMENTS:	See clause 4.6 Remark	N/A
5.9.2	ACCESSIBLE PARTS		Р



	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.9.2.1	Accessibility, when necessary, determined using standard test finger of Fig 6 applied in a bent or straight position	See Appended Table 5.9.2	Р
	Openings preventing entry of test finger of Fig. 6 mechanically tested with a straight un-jointed test finger of the same dimensions with a force of 30 N		Р
	When the straight un-jointed test finger entered, test with the standard test finger (Fig 6) was repeated, if necessary, by pushing the finger through the opening	Straight un-jointed test finger can't enter opening.	N/A
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	Test hook can't enter opening	N/A
	All additional parts that became accessible checked using standard test finger and by inspection	Test hook can't enter opening	N/A
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.	N/A
	Conductive parts of actuating mechanisms not considered ACCESSIBLE PARTS when removal of handles, knobs, etc. required use of a TOOL .:	No such part.	N/A
6	CLASSIFICATION OF ME EQUIPMENT AND ME S	SYSTEMS	Р
6.2	CLASS I ME EQUIPMENT, externally powered		N/A
	CLASS II ME EQUIPMENT, externally powered	Class II	Р
	INTERNALLY POWERED ME EQUIPMENT	Not internally powered	N/A
	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		N/A
	TYPE B APPLIED PART	No applied part	N/A
	_		.

No applied part

No applied part

No applied part

IP20 for adapter model.

N/A N/A

N/A

N/A

6.3

TYPE BF APPLIED PART

TYPE CF APPLIED PART

DEFIBRILLATION-PROOF APPLIED PARTS

protection against ingress of water and

ENCLOSURES classified according to degree of

particulate matter (IPN1N2) as per IEC 60529:



	IEC 60601-1				
Clause	Requirement + Test	Result - Remark	Verdict		
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	N/A		
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	N/A		
6.6	CONTINUOUS OF Non-CONTINUOUS OPERATION:	Continuous operation	Р		

1.2 P
Р
1.3 P
.1.3 P
Р
arking P
vided N/A
N/A
ngle N/A
Р
Р
arking P
Р
Р



IEC 60601-1				
Clause	Requirement + Test	Result - Remark	Verdict	
	Detachable components of the ME EQUIPMENT not marked; misidentification does not present an unacceptable risk, or		N/A	
	Detachable components of the ME EQUIPMENT are marked with the name or trademark of the MANUFACTURER, and	See marking plate	Р	
	- a MODEL OR TYPE REFERENCE	See marking plate	Р	
	Software forming part of a PEMS identified with a unique identifier, such as revision level or date of release/issue, and identification are available to designated persons	No software	N/A	
7.2.3	Symbol 11 on Table D.1 (ISO 7000-1641, DB: 2004-01) used, optionally, advice to OPERATOR to consult ACCOMPANYING DOCUMENTS	See the marking label.	Р	
	Safety sign 10 on Table D.2 (safety sign IEC 60878 Safety 01) used, advising OPERATOR that ACCOMPANYING DOCUMENTS must be consulted	No such safety sign used.	N/A	
7.2.4	Accessories marked with name or trademark and contact information of their MANUFACTURER, and:	No accessory.	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 intended to receive power from other electrical equipment in an ME SYSTEM and compliance with the requirements of this standard is dependent on that other equipment, one of the following is provided:	Component; final determination to be performed in the end-product	N/A	
7.2.6	Connection to the Supply Mains		Р	
	Except for PERMANENTLY INSTALLED ME EQUIPMENT, marking appearing on the outside of part containing SUPPLY MAINS connection and, adjacent to connection point		Р	
	For PERMANENTLY INSTALLED ME EQUIPMENT, NOMINAL supply voltage or range marked inside or outside of ME EQUIPMENT, preferably, adjacent to SUPPLY MAINS connection	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	Р	
	Multiple RATED supply voltages or multiple RATED supply voltage ranges are separated by (V/V):	Not so marked.	N/A	



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Clause	Requirement + Test	Result - Remark	Verdict	
	- Nature of supply (e.g., No. of phases, except single-phase) and type of current:	Single phase, AC.	Р	
	Symbols 1-5, Table D.1 (symbols of IEC 60417-5032, 5032-1, 5032-2, 5031, and 5033, all 2002-10) used, optionally, for same parameters:	'~' is used.	Р	
	- RATED supply frequency or RATED frequency range in hertz:	50-60Hz or 50/60Hz	Р	
	- Symbol 9 of Table D.1 (symbol IEC 60417-5172, 2003-02) used for CLASS II ME EQUIPMENT:	Symbol 9 is used for Class II adapter model.	Р	
7.2.7	RATED input in amps or volt-amps, (A, VA):	0.3A	Р	
	RATED input in amps or volt-amps, or in watts when power factor exceeds 0.9 (A, VA, W):		N/A	
	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 ± 10 % of the mean value of specified range (A, VA,W):	100-240V~	Р	
	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.	N/A	
	Marking includes long-time and most relevant momentary volt-ampere ratings when provided, each plainly identified and indicated in ACCOMPANYING DOCUMENTS (VA)	No such rating provided.	N/A	
	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 rating provided.	N/A	
7.2.8	Output connectors		Р	
7.2.8.1	See 16.9.2.1 b) for MULTIPLE SOCKET-OUTLETS integral with ME EQUIPMENT	No MSO	N/A	
7.2.8.2	Output connectors are marked, except for MULTIPLE SOCKET-OUTLETS or connectors intended for specified ACCESSORIES or equipment		Р	
	Rated Voltage (V), Rated Current (A):	See model similarity	_	
	Rated Power (W), Output Frequency (Hz):	See model similarity	_	
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	N/A	
7.2.10	Degrees of protection against electric shock as classified in 6.2 for all APPLIED PARTS marked with relevant symbols as follows (not applied to parts identified according to 4.6)	No Applied Parts in power supply	N/A	



	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
7.2.11	ME EQUIPMENT not marked to the contrary assumed to be suitable for CONTINUOUS OPERATION		Р
	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:		1
	Operating speed (s) and Breaking capacity:		_
7.2.13	A safety sign CLEARLY LEGIBLE and visible after INSTALLATION in NORMAL USE applied to a prominent location of EQUIPMENT that produce physiological effects capable of causing HARM to PATIENT or OPERATOR not obvious to OPERATOR	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:	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 (symbol IEC 60417-5036, 2002-10)	No such high voltage terminal device.	N/A
7.2.15	Requirements for cooling provisions marked (e.g., supply of water or air):	Component, to be determined as part of end product.	N/A
7.2.16	ME EQUIPMENT with limited mechanical stability	Component, to be determined in end-product evaluation.	N/A
7.2.17	Packaging marked with special handling instructions for transport and/or storage:	Component, to be determined as part of end product.	N/A
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
7.2.19	Symbol 7 of Table D.1 (IEC 60417-5017, 2002-10) marked on FUNCTIONAL EARTH TERMINAL:	No FE terminal.	N/A
7.2.20	Protective means, required to be removed to use a particular function of ME EQUIPMENT with alternate applications, 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
	No marking applied when an interlock provided		N/A
7.3	Marking on the inside of ME EQUIPMENT or ME EQUIF	PMENT parts	P
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



	IEC 60601-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	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	No heating element, no lamp holder.	N/A		
7.3.2	Symbol 24 of Table D.1 (symbol IEC 60417-5036, 2002-10), or safety sign 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 when applicable is marked:	No battery.	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 by inadequately trained personnel would result in an unacceptable RISK (e.g., excessive temperatures, fire or explosion):	No battery.	N/A		
	An identifying marking also provided referring to instructions in ACCOMPANYING DOCUMENTS:	No battery.	N/A		
7.3.4	Fuses, replaceable THERMAL CUT-OUTS and OVER-CURRENT RELEASES, accessible by use of a TOOL	Specification adjacent to component.	Р		
	Identified by specification adjacent to the component, or		Р		
	by reference to ACCOMPANYING DOCUMENTS		Р		
	Voltage (V) and Current (A) rating:	T2A, 250V	_		
	Operating speed(s), size & breaking capacity.:		_		
7.3.5	PROTECTIVE EARTH TERMINAL marked with symbol 6 of Table D.1 (IEC 60417-5019, 2002-10), except for the PROTECTIVE EARTH TERMINAL in an APPLIANCE INLET according to IEC 60320-1	No Protective earth terminal.	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 (IEC 60417-5017, 2002 -10) marked on FUNCTIONAL EARTH TERMINALS	No FE terminal.	N/A		
7.3.7	Terminals for supply conductors marked adjacent to terminals,:	Risk management report Page 12	Р		
		No hazard			
	Terminal markings included in ACCOMPANYING DOCUMENTS when ME EQUIPMENT too small to accommodate markings	Marked on EUT	N/A		



	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Terminals exclusively for neutral supply conductor in PERMANENTLY INSTALLED ME EQUIPMENT marked with Code 1 of Table D.3 (Code in IEC 60445)	Not permanently installed	N/A
	Marking for connection to a 3-phase supply, if necessary, 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		Р
7.3.8	"For supply connections, use wiring materials suitable for at least X °C" (where X > than max temperature measured in terminal box or wiring compartment under NORMAL USE), 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
7.4	Marking of controls and instruments		N/A
7.4.1	The "on" & "off" positions of switch to control power to ME EQUIPMENT or its parts, including mains switch, marked with symbols 12 and 13 of Table D.1 (IEC 60417-5007, 2002-10, and IEC 60417-5008, 2002-10), 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 push button switch with bi-stable positions marked with symbol 14 of Table D.1 (IEC 60417-5010 2002-10), 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 (symbol 60417-5011 2002-10), 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



IEC 60601-1				
Clause	Requirement + Test	Result - Remark	Verdict	
	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:	No such device.	N/A	
	 or an indication of direction in which magnitude of the function changes 	No such device.	N/A	
	Control device or switch that brings the ME EQUIPMENT into the "stand-by" condition marked with symbol IEC 60417-5009 (2002-10) (Table D.1, Symbol 29).	No stand-by switch	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	
7.5	Safety signs		N/A	
	Safety sign with established meaning used.	No safety sign used.	N/A	
	Markings used to convey a warning, prohibition or mandatory action mitigating a RISK not obvious to OPERATOR are safety signs from ISO 7010:		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	
7.6	Symbols		Р	
7.6.1	Meanings of symbols used for marking described in instructions for use:	Accompanying documents have been checked.	Р	
7.6.2	Symbols required by this standard conform to IEC or ISO publication referenced	IEC 60417-5172: "CLASS II equipment" symbol is used. IEC 60417-5957: "For indoor use only" symbol is used.	Р	
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.	N/A	
7.7	Colours of the insulation of conductors	1	N/A	
7.7.1	PROTECTIVE EARTH CONDUCTOR identified by green and yellow insulation	No PE conductor is provided.	N/A	



IEC 60601-1				
Clause	Requirement + Test	Result - Remark	Verdict	
7.7.2	Insulation on conductors inside ME EQUIPMENT forming PROTECTIVE EARTH CONNECTIONS identified by green and yellow at least at terminations		N/A	
7.7.3	Green and yellow insulation identify only following conductors:		N/A	
	- PROTECTIVE EARTH CONDUCTORS		N/A	
	- conductors specified in 7.7.2		N/A	
	- POTENTIAL EQUALIZATION CONDUCTORS		N/A	
	- FUNCTIONAL EARTH CONDUCTORS		N/A	
7.7.4	Neutral conductors of POWER SUPPLY CORDS are "light blue" specified in IEC 60227-1 or IEC 60245-1	No power supply cord	N/A	
7.7.5	Colours of conductors in POWER SUPPLY CORDS in accordance with IEC 60227-1 or IEC 60245-1	No power supply cord	N/A	
7.8	Indicator lights and controls		N/A	
7.8.1	Red indicator lights mean: Warning (i.e., immediate response by OPERATOR required)	No indicator light.	N/A	
	Yellow indicator lights mean: Caution (i.e., prompt response by OPERATOR required)		N/A	
	Green indicator lights mean: Ready for use		N/A	
	Other colours, if used: Meaning other than red, yellow, or green (colour, meaning):		N/A	
7.8.2	Red used only for emergency control		N/A	
7.9	ACCOMPANYING DOCUMENTS	Accompany documents are provided for some critical issue like technical data, safety warnings, necessary information to set up, but further evaluation is needed on end product level.	P	

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8	PROTECTION AGAINST ELECTRICAL HAZARDS	S FROM ME EQUIPMENT	Р
8.1	Limits specified in Clause 8.4 not exceeded for ACCESSIBLE PARTS and APPLIED PARTS in NORMAL or SINGLE FAULT CONDITIONS	RM report page 11 EL1	Р
	NORMAL CONDITION considered as simultaneous occurrence of situations identified in 8.1a)		Р



	IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	SINGLE FAULT CONDITION considered to include the occurrences as specified in Clause 8.1b):	The following needs to be considered in the end product: - interruption of any one power-carrying conductor - unintended movement of a component - accidental detachment of conductors and connectors	N/A	
	ACCESSIBLE PARTS determined according to 5.9		Р	
	LEAKAGE CURRENTS measured according to 8.7		Р	
8.2	Requirements related to power sources		N/A	
8.2.1	Connection to a separate power source		N/A	
	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	
	When a generic separate power supply specified, specification in ACCOMPANYING DOCUMENTS examined		N/A	
8.2.2	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	Component, to be determined in end-product evaluation	N/A	
	ME EQUIPMENT connected with correct polarity maintained BASIC SAFETY and ESSENTIAL PERFORMANCE	Component, to be determined in end-product evaluation	N/A	
	Protective devices that can be reset by anyone without a TOOL returns to NORMAL CONDITION on reset	Component, to be determined in end-product evaluation	N/A	
8.3	Classification of APPLIED PARTS	No Applied Parts	N/A	
8.4	Limitation of voltage, current or energy		Р	
8.4.1	PATIENT CONNECTIONS intended to deliver Current		Р	
	Limits in 8.4.2 not applied to currents intended to flow through body of PATIENT to produce a physiological effect during NORMAL USE	No such currents.	Р	
8.4.2	ACCESSIBLE PARTS and APPLIED PARTS		Р	
	b) LEAKAGE CURRENTS from, to, or between ACCESSIBLE PARTS did not exceed limits for TOUCH CURRENT in Cl. 8.7.3 c) when measured per Clause 8.7.4 (mA):	See appended Table 8.7	Р	



	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	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	Р
	- accessible contacts of connectors		Р
	- contacts of fuseholders accessible during replacement of fuse	No such part.	N/A
	 contacts of lampholders accessible after removal of lamp 	No such part.	N/A
	 parts inside an ACCESS COVER that can be opened without a TOOL, or where a TOOL is needed but the instructions for use instruct an OPERATOR other than SERVICE PERSONNEL to open the relevant ACCESS COVER 	No such part.	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	Р
	Limit of 60 V d.c. applied with no more than 10% peak-to-peak ripple, and when ripple larger than specified value, 42.4 V peak limit applied (V d.c.):	See appended Table 8.4.2	Р
	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	Р
	LEAKAGE CURRENT limits referred to in 8.4.2 b) applied when voltages higher than limits in 8.4.2 c) were present (mA):	See appended Table 8.4.2	Р
	d) Voltage and energy limits specified in c) above also applied to the following:	No such part.	N/A
	 internal parts, other than contacts of plugs, connectors and socket-outlets, touchable by test pin in Fig 8 inserted through an opening in an ENCLOSURE; and 	No internal part is touchable for adapter model.	N/A
	- 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 the RESPONSIBLE ORGANIZATION in NORMAL USE using a TOOL		N/A
	Test pin or the test rod inserted through relevant openings with minimal force of no more than 1 N	No opening for adapter model.	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
	Test repeated with a TOOL specified in instructions for use		N/A
	Test rod freely and vertically suspended through openings on top of ENCLOSURE		N/A
	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.	N/A
	A TOOL is required when it is possible to prevent the devices from operating		N/A
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):	See appended Table 8.4.3	Р
	When voltage exceeded 60 V, calculated or measured stored charge didn't exceed 45 μC:	See appended Table 8.4.3	Р
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 (IEC 60417-5036, 2002-10), and manual discharging device specified in technical description:		N/A
8.5	Separation of parts		Р
8.5.1	MEANS OF PROTECTION (MOP)		Р
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		Р
	Each MEANS OF PROTECTION categorized as a MEANS OF PATIENT PROTECTION or a MEANS OF OPERATOR PROTECTION, taking into account Clause 4.6, and flow chart in Fig A.12		Р



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Clause	Requirement + Test	Result - Remark	Verdict
	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		Р
	Components and wiring forming a MEANS OF PROTECTION comply with 8.10		Р
	Insulation, CREEPAGE, CLEARANCES, components or earth connections not complying with 8.5.1.2 and 8.5.1.3 not considered as MEANS OF PROTECTION, and failure of these parts regarded as NORMAL CONDITION		Р
8.5.1.2	MEANS OF PATIENT PROTECTION (MOPP)		Р
	Solid insulation forming a MEANS OF PATIENT PROTECTION complied with dielectric strength test of Clause 8.8 at test voltage of Table 6		Р
	CREEPAGE and CLEARANCES forming a MEANS OF PATIENT PROTECTION complied with Table 12		Р
	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF PATIENT PROTECTION complied with Cl. 8.6		N/A
	A Y (Y1 or Y2) capacitor complying with IEC 60384-14 considered one MEANS OF PATIENT PROTECTION:	See Appended Tables 8.8.3 and 8.10	Р
	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	Р
	Two capacitors used in series, each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance	Two identical Y1 used in series	Р
	Voltage _{Total Working} (V) and C _{Nominal} (μF):	250V or 500V, 2200pF	_
8.5.1.3	MEANS OF OPERATOR PROTECTION (MOOP)		N/A
	Solid insulation forming a MEANS OF OPERATOR PROTECTION complied with:	The separation between primary and secondary was evaluated by MOPP.	N/A
	- dielectric strength test of 8.8 at test voltage of Table 6; or	See appended Table 8.8.3	N/A
	- requirements of IEC 60950-1 for INSULATION CO-ORDINATION		N/A
	CREEPAGE and CLEARANCES forming a MEANS OF OPERATOR PROTECTION complied with:		N/A
	- limits of Tables 13 to 16 (inclusive); or		N/A
	- requirements of IEC 60950-1 for INSULATION CO-ORDINATION		N/A



IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF OPERATOR PROTECTION complied with Cl. 8.6		N/A
	- or with requirements and tests of IEC 60950-1 for protective earthing:		N/A
	A Y2 (IEC 60384-14) capacitor is considered one MEANS OF OPERATOR PROTECTION:		N/A
	A Y1 (IEC 60384-14) capacitor is considered two MEANS OF OPERATOR PROTECTION:		N/A
	Two capacitors used in series each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance		N/A
	Voltage _{Total Working} (V) and C _{Nominal} (μF):		_
	Points at which impedances of components, CREEPAGE, CLEARANCES, PROTECTIVE EARTH CONNECTIONS or insulation, prevent ACCESSIBLE PARTS from exceeding limits in 8.4 examined whether a failure at any of these points is to be regarded as a NORMAL or SINGLE FAULT CONDITION		Р
	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.	Р
	A MEANS OF PROTECTION protecting other parts considered MEANS OF OPERATOR PROTECTION:	EUT is evaluated according to requirement of MOPP.	N/A
8.5.2	Separation of PATIENT CONNECTIONS	No PATIENT CONNECTIONS	N/A
8.5.3	MAXIMUM MAINS VOLTAGE		Р
	- MAXIMUM MAINS VOLTAGE determined to be the highest RATED supply voltage for single-phase or d.c. SUPPLY MAINS powered ME EQUIPMENT, as well as INTERNALLY POWERED ME EQUIPMENT with a means of connection to a SUPPLY MAINS (V):	240Vac	Р
	When less than 100 V, MAXIMUM MAINS VOLTAGE was 250 V	No such condition.	N/A
	- MAXIMUM MAINS VOLTAGE was the highest RATED phase to neutral supply voltage for poly-phase ME EQUIPMENT (V):	No poly-phase supply	N/A
	- for other INTERNALLY POWERED ME EQUIPMENT, maximum mains voltage was 250 V	Not internally powered	N/A
8.5.4	WORKING VOLTAGE		Р
	- Input supply voltage to ME EQUIPMENT was RATED voltage or voltage within RATED range resulting in highest measured value (V):	240Vac	Р



	IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	- 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	Р	
	- 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	Р	
8.5.5	DEFIBRILLATION-PROOF APPLIED PARTS	No DEFIBRILLATION-PROOF APPLIED PARTS	N/A	
8.6	Protective and functional earthing and potential	equalization of ME EQUIPMENT	N/A	
8.6.1	Requirements of 8.6.2 to 8.6.8 applied		N/A	
	Parts complying with IEC 60950-1 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	No such parts	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		N/A	
	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		N/A	
	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	
8.6.4	a) PROTECTIVE EARTH CONNECTIONS carried fault currents reliably and without excessive voltage drop:		N/A	
	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	



	IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict	
8.6.5	Surface coatings		N/A	
	Poorly conducting surface coatings on conductive elements removed at the point of contact	No such surface coating.	N/A	
	Coating not removed when requirements for impedance and current-carrying capacity met		N/A	
8.6.6	Plugs and sockets		N/A	
	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	No protective connection	N/A	
	- applied also where interchangeable parts are PROTECTIVELY EARTHED		N/A	
8.6.7	Terminal for connection of a POTENTIAL EQUALIZATION	TION CONDUCTOR	N/A	
	- Terminal is accessible to OPERATOR with ME EQUIPMENT in any position of NORMAL USE	No potential equalization conductor.	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	
8.6.8	FUNCTIONAL EARTH TERMINAL not used to provide a PROTECTIVE EARTH CONNECTION		N/A	
8.6.9	Class II ME EQUIPMENT		Р	
	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	To be further evaluated in end product	N/A	
	ACCOMPANYING DOCUMENTS include a statement that the third conductor in the POWER SUPPLY CORD is only a functional earth.		N/A	



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Clause	Requirement + Test	Result - Remark	Verdict
	Two MEANS OF PROTECTION provided between insulation of internal screens and all internal wiring connected to them and ACCESSIBLE PARTS		N/A
8.7	LEAKAGE CURRENTS and PATIENT AUXILIARY CURREN	TS	Р
8.7.1	a) Electrical isolation providing protection against electric shock limits currents to values in 8.7.3:	See appended Tables 8.7	Р
	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	Р
8.7.2	Allowable values specified in 8.7.3 applied under SINGLE FAULT CONDITIONS of 8.1 b), except		Р
	- where insulation used in conjunction with a PROTECTIVE EARTH CONNECTION, insulation short circuited only under conditions in 8.6.4 b)	Class II equipment.	N/A
	- the only SINGLE FAULT CONDITION for EARTH LEAKAGE CURRENT was interruption of one supply conductor at a time		N/A
	- LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENT not measured in SINGLE FAULT CONDITION of short circuiting of one constituent part of DOUBLE INSULATION		Р
	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		Р
8.7.3	Allowable Values		Р
	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	Р
	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:		N/A
	c) Touch current did not exceed 100 µA in NORMAL CONDITION and 500 µA in SINGLE FAULT CONDITION (I _{TNC} , I _{TSFC}):	See appended Table 8.7	Р
	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	Р



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Clause	Requirement + Test	Result - Remark	Verdict	
	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:	Not permanently installed ME equipment.	N/A	
	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	Р	
	f) LEAKAGE CURRENTS that can flow in a FUNCTIONAL EARTH CONDUCTOR in a non-PERMANENTLY INSTALLED ME EQUIPMENT are 5 mA in NORMAL CONDITION and 10 mA in SINGLE FAULT CONDITION:	No such condition	N/A	
8.7.4	LEAKAGE and PATIENT AUXILIARY CURRENTS measurements:	See appended Table 8.7	Р	
8.8	Insulation		Р	
8.8.1	Insulation relied on as MEANS OF PROTECTION, including REINFORCED INSULATION subjected to testing		Р	
	Insulation exempted from test (complies with clause 4.8)		Р	
	Insulation forming MEANS OF OPERATOR PROTECTION and complying with IEC 60950-1 for INSULATION CO-ORDINATION not tested as in 8.8	No such parts	N/A	
8.8.2	Distance through solid insulation or use of thin sheet material			
	Solid insulation forming SUPPLEMENTARY or REINFORCED INSULATION for a PEAK WORKING VOLTAGE greater than 71 V provided with:		Р	
	a) 0.4 mm, min, distance through insulation, or		Р	
	b) does not form part of an ENCLOSURE and not subject to handling or abrasion during NORMAL USE, and comprised of:		Р	
	- at least two layers of material, each passed the appropriate dielectric strength test:	See appended Table 8.8.3	Р	
	- or three layers of material, for which all combinations of two layers together passed the appropriate dielectric strength test:		N/A	
	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	Р	



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Clause	Requirement + Test	Result - Remark	Verdict
	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	Р
	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		Р
	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.	Р
	Finished component complied with routine dielectric strength tests of 8.8.3:		N/A
	Tests of Annex L not repeated since material data sheets confirm compliance:	See Table 8.10 and Material Information Attachment	Р
8.8.3	Dielectric Strength		Р
	Solid insulating materials with a safety function withstood dielectric strength test voltages:	See appended Table 8.8.3	Р
8.8.4	Insulation other than wire insulation		Р
8.8.4.1	Resistance to heat retained by all insulation and insulating partition walls during EXPECTED SERVICE LIFE of ME EQUIPMENT		Р
	ME EQUIPMENT and design documentation examined:		Р



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Clause	Requirement + Test	Result - Remark	Verdict
	RISK MANAGEMENT FILE examined in conjunction with resistance to moisture, dielectric strength, and mechanical strength tests:	See also RM clauses in 11 and 15 Page 13 EL4	Р
	Satisfactory evidence of compliance provided by manufacturer for resistance to heat:	No evidence provided	N/A
	Tests conducted in absence of satisfactory evidence for resistance to heat:	Ball pressure test performed	Р
	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 Table 8.8.4.1	Р
	b) Parts of insulating material supporting uninsulated parts of MAINS PART subjected to ball-pressure test in a), except at 125 °C ± 2 ° C or ambient indicated in technical description ±2°C plus temperature rise determined during test of 11.1 of relevant part, if higher (°C):	See Table 8.8.4.1	Р
	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	N/A
3.8.4.2	Resistance to environmental stress		Р
	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		Р
	Ceramic and similar materials not tightly sintered, and beads alone not used as SUPPLEMENTARY OF REINFORCED INSULATION	No such material	N/A
	Insulating material with embedded heating conductors considered as one MEANS OF PROTECTION but not two MEANS OF PROTECTION	No heating conductor	N/A
	Parts of natural latex rubber aged by suspending samples freely in an oxygen cylinder containing commercial oxygen to a pressure of 2.1 Mpa ± 70 kPa, with an effective capacity of at least 10 times volume of samples	No such material	N/A
	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
8.9	CREEPAGE DISTANCES and AIR CLEARANCES		Р
3.9.1.1	CREEPAGE DISTANCES and AIR CLEARANCES are ≥ to values in Tables 12 to 16 (inclusive), except as specified in Clauses 8.9.1.2 to 8.9.1.15		Р
	•	•	



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Clause	Requirement + Test	Result - Remark	Verdict
	- Insulation between parts of opposite polarity of the MAINS PART on the supply mains side of any mains fuse or OVER-CURRENT RELEASE, one MEANS OF OPERATOR PROTECTION are ≥ to values in Table 13, Table 14 and Table 16		Р
8.9.1.2	Tables 12 to 16 (inclusive) not applied to CREEPAGE and CLEARANCES forming MEANS OF OPERATOR PROTECTION per IEC 60950-1 for INSULATION CO-ORDINATION and used under conditions compliance was tested	No such part	N/A
8.9.1.3	Specified min CLEARANCE applied as min CREEPAGE for CREEPAGE DISTANCES across glass, mica, ceramic and other inorganic insulating materials with similar tracking characteristics	No such material	N/A
8.9.1.4	When min CREEPAGE derived from Tables 12 to 16 (inclusive) was less than min applicable CLEARANCE, value of min CLEARANCE applied as min CREEPAGE DISTANCE	Noted, but no such condition	N/A
8.9.1.5	ME EQUIPMENT RATED to operate at an altitude of 2000 m		N/A
	ME EQUIPMENT RATED to operate at an altitude specified by MANUFACTURER (m):	5000m	Р
	Operating altitude corresponding to actual air pressure for ME EQUIPMENT intended for pressurized environments (e.g., aircraft) used to determine multiplication factor from Table 8, and AIR CLEARANCE was multiplied by this factor		Р
	CREEPAGE DISTANCES not subjected to multiplication factors, but were at least as large as the resulting value for AIR CLEARANCE		Р
8.9.1.6	When WORKING VOLTAGE was between those in Tables 12 to 16 (inclusive), CREEPAGE and CLEARANCES calculated as follows:		Р
	CREEPAGE DISTANCES determined by linear interpolation between the nearest two values, and the calculated spacing rounded off to the next higher 0.1 mm increment (mm):::::::::::::::::::::::::::::::	See Insulation Diagram and Table	Р
	- CLEARANCES for PEAK WORKING VOLTAGES above 2800 V peak or d.c. determined by linear interpolation between the nearest two values, and the calculated spacing rounded off to the next higher 0.1 mm increment (mm)::	No such high voltage.	N/A
	- for AIR CLEARANCES corresponding to PEAK WORKING VOLTAGE up to 2800 V peak or d.c., the higher of the two values applied	See Insulation Diagram and Table	Р
8.9.1.7	Material groups classified in accordance with Table 9 (Material Group):	Material group IIIb was assumed.	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Material group evaluated using 50 drops of solution A based on test data for material according to IEC 60112:	Material group IIIb was assumed.	N/A
	Material of unknown group considered IIIb		Р
8.9.1.8	 Pollution degree 1: Micro-environment sealed to exclude dust and moisture 	Pollution degree 2	N/A
	 Pollution degree 2: Micro-environment with non-conductive pollution, except occasional conductivity caused by condensation 		Р
	 Pollution degree 3: Micro-environment subject to conductive pollution, or dry non- conductive pollution that could become conductive due to expected condensation 	Pollution degree 2	N/A
	 Pollution degree 4: Micro-environment where continuous conductivity occurs due to conductive dust, rain, or other wet conditions 	Pollution degree 2	N/A
	Pollution degree 4 not used for insulation providing a MEANS OF PROTECTION	Pollution degree 2	N/A
	Where insulation between MAINS PART and earth might be compromised, measures such as maintenance ensure that micro-environment is mitigated to a lower pollution degree	No such construction.	N/A
	Means employed according to Annex M to reduce the pollution degree:		N/A
8.9.1.9	Overvoltage category classification; value of MAINS TRANSIENT VOLTAGE determined from overvoltage category per IEC60664-1 and NOMINAL a.c. MAINS VOLTAGE using Table 10		Р
	V _{MT} Peak (V):	2500	_
	V _{MN} r.m.s (V):	300	_
8.9.1.10	AIR CLEARANCE for MAINS PARTS (operating on RATED MAINS VOLTAGES up to 300 V) were values for r.m.s. or d.c. RATED MAINS VOLTAGE in Table 13 plus additional CLEARANCE in Table 14 for PEAK WORKING VOLTAGE		Р
8.9.1.11	SUPPLY MAINS overvoltage category II applied according to IEC 60664-1		Р
	For ME EQUIPMENT intended for overvoltage category III, Tables 13 to 15 (inclusive) not used for clearance, instead values in the next MAINS TRANSIENT VOLTAGE column upwards used	No overvoltage category III	N/A
	When PATIENT protection (Table 12) is required for use of ME EQUIPMENT on overvoltage category III SUPPLY MAINS, guidance provided on values required in the rationale for CI. 8.9 used	No overvoltage category III	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
8.9.1.12	A SECONDARY CIRCUIT derived from a SUPPLY MAINS, normally, considered to be overvoltage category I according to IEC 60664-1 when the MAINS PART is overvoltage category II (Table 15)	No measurement is taken.	N/A
	Table 15 applied to earthed SECONDARY CIRCUIT or INTERNALLY POWERED ME EQUIPMENT		N/A
	Requirements for primary circuits in Tables 13 and 14 used for an unearthed SECONDARY CIRCUIT derived from a SUPPLY MAINS		N/A
	Table 15 applied when SECONDARY CIRCUIT was separated from MAINS PART by a functionally earthed or PROTECTIVELY EARTHED metal screen or transients in SECONDARY CIRCUIT were below the levels expected for overvoltage category I		N/A
	Table 15 column for circuits not subject to transient over-voltages applied to:		N/A
	 d.c. SECONDARY CIRCUITS reliably connected to earth and have capacitive filtering limiting peak-to-peak ripple to 10 % of d.c. voltage, and 		N/A
	- circuits in INTERNALLY POWERED ME EQUIPMENT		N/A
8.9.1.13	For PEAK WORKING VOLTAGES above 1400 V peak or d.c. Table 15 not applied since all the following conditions were met:	No such high peak working voltage.	N/A
	- CLEARANCE was at least 5 mm		N/A
	– insulation complied with dielectric strength test of 8.8.3 using an a.c. test voltage with an r.m.s. value equal to 1.06 times PEAK WORKING VOLTAGE, or		N/A
	 a d.c. test voltage equal to peak value of a.c. test voltage with an r.m.s. value equal to 1.06 times PEAK WORKING VOLTAGE, and 		N/A
	CLEARANCE path was partly or entirely through air or along the surface of an insulating material of material group I		N/A
	Dielectric strength test conducted only across part(s) of the path that are through air when CLEARANCE path was also partly along surface of a non- group I material		N/A
8.9.1.14	Minimum CREEPAGE DISTANCES for two MEANS OF OPERATOR PROTECTION obtained by doubling values in Table 16 for one MEANS OF OPERATOR PROTECTION		Р
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



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Clause	Requirement + Test	Result - Remark	Verdict
8.9.2	a) Short circuiting of each single one of CREEPAGE DISTANCES and CLEARANCES in turn did not result in a HAZARDOUS SITUATION described in 13.1 for insulation in MAINS PART between parts of opposite polarity, therefore, min CREEPAGE and CLEARANCES not applied:	The spacing between parts of opposite polarity fulfils the values of Table 11.	N/A
	b) Contribution to CREEPAGE DISTANCES of grooves or air gaps less than 1 mm wide limited to widths		Р
	c) Relative positioning of CLEARANCE providing a MEANS OF PROTECTION is such that the relevant parts are rigid and located by moulding, or there is no reduction of a distance below specified value by deformation or movement of parts		Р
	Normal or likely limited movements of relevant parts taken into consideration when calculating minimum AIR CLEARANCE		Р
8.9.3	Spaces filled by insulating compound		N/A
8.9.3.1	Only solid insulation requirements applied where distances between conductive parts filled with insulating compound were such that CLEARANCES and CREEPAGE DISTANCES don't exist		N/A
	Thermal cycling, humidity preconditioning, and dielectric strength tests in 8.9.3.2 and 8.9.3.4 or 8.9.3.3 and 8.9.3.4 conducted		N/A
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 (clause 8.8.3), test voltage multiplied by 1.6:		N/A
	Cracks or voids in insulating compound affecting homogeneity of material didn't occur		N/A
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, it was subjected to dielectric strength test of 8.8.3 except at 1.6 times the test voltage:		N/A



- The other two samples subjected to humidity preconditioning of 5.7, except for 48 hours only followed by a dielectric strength test of 8.8.3 at 1.6 times the test voltage 8.9.3.4 One sample containing the cemented joint subjected to a sequence of temperature cycling tests for 10 times		IEC 60601-1		
preconditioning of 5.7, except for 48 hours only followed by a dielectric strength test of 8.8.3 at 1.6 times the test voltage 8.9.3.4 One sample containing the cemented joint subjected to a sequence of temperature cycling tests for 10 times	Clause	Requirement + Test	Result - Remark	Verdict
Subjected to a sequence of temperature cycling tests for 10 times		preconditioning of 5.7, except for 48 hours only followed by a dielectric strength test of 8.8.3 at		N/A
8.10.1 Components of ME EQUIPMENT likely to result in an unacceptable RISK by their movements mounted securely as indicated in RISK MANAGEMENT FILE	8.9.3.4	subjected to a sequence of temperature cycling	No need.	N/A
an unacceptable RISK by their movements mounted securely as indicated in RISK MANAGEMENT FILE	8.10	Components and wiring		Р
adequately secured or insulated to prevent accidental detachment in a HAZARDOUS SITUATION	8.10.1	an unacceptable RISK by their movements mounted securely as indicated in RISK	•	Р
when breaking free at their joint are not capable of touching circuit points resulting in a HAZARDOUS SITUATION described in 13.1 Breaking free of one means of mechanical restraint considered a SINGLE FAULT CONDITION Stranded conductors are not solder-coated when secured by clamping means to prevent HAZARDOUS SITUATIONS described in 13.1 due to poor contact 8.10.3 Flexible cords detachable without a TOOL used No such construction. N/A No stranded conductor. N/A	8.10.2	adequately secured or insulated to prevent accidental detachment in a HAZARDOUS		Р
Stranded conductors are not solder-coated when secured by clamping means to prevent HAZARDOUS SITUATIONS described in 13.1 due to poor contact 8.10.3 Flexible cords detachable without a TOOL used No such cord. N/A		when breaking free at their joint are not capable of touching circuit points resulting in a		Р
when secured by clamping means to prevent HAZARDOUS SITUATIONS described in 13.1 due to poor contact 8.10.3 Flexible cords detachable without a TOOL used No such cord. N/A			No such construction.	N/A
		when secured by clamping means to prevent HAZARDOUS SITUATIONS described in 13.1 due to	No stranded conductor.	N/A
to interconnect different parts of ME EQUIPMENT provided with means for connection to comply with requirements for metal ACCESSIBLE PARTS of 8.4 when a connection is loosened or broken as shown by measurement or test finger:	8.10.3	to interconnect different parts of ME EQUIPMENT provided with means for connection to comply with requirements for metal ACCESSIBLE PARTS of 8.4 when a connection is loosened or broken		N/A
8.10.4 Cord-connected HAND-HELD parts and cord-connected foot-operated control devices	8.10.4		ected foot-operated control	N/A
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.	8.10.4.1	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	control device; no cord connected foot-operated	N/A
d.c. limit of 60 V applied to d.c. with no more than 10 % peak-to-peak ripple				N/A
42.4 V peak limit applied when ripple exceeded 10 % peak-to-peak limit				N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
8.10.4.2	Connection and anchorage at both ends of a flexible cord to a HAND-HELD or foot-operated control device of ME EQUIPMENT at both ends of cable to control device complied with 8.11.3 when breaking free or shorting between conductors could result in a HAZARDOUS SITUATION described in 13.1	No cord connected hand-held control device; no cord connected foot-operated control device.	N/A	
	This requirement applied to other HAND-HELD parts when disturbance or breaking of one or more of connections could result in a HAZARDOUS SITUATION described in 13.1		N/A	
8.10.5	Mechanical protection of wiring		N/A	
	a) Internal cables and wiring adequately protected against contact with a moving part or from friction at sharp corners and edges where damage to insulation could result in a HAZARDOUS SITUATION described in 13.1:	No internal moving part.	N/A	
	b) Wiring, cord forms, or components are not likely to be damaged during assembly or during opening or closing of ACCESS COVERS where such damage could result in a HAZARDOUS SITUATION described in 13.1	No access covers	N/A	
8.10.6	Guiding rollers of insulated conductors prevent bending of movable insulated conductors around a radius of less than five times the outer diameter of the lead concerned in NORMAL USE	No guiding roller.	N/A	
8.10.7	a) Insulating sleeve that can only be removed by breaking or cutting, or secured at both ends, is used on internal wiring of when needed:	See the table 8.10.	Р	
	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.	Р	
	c) Insulated conductors subject to temperatures > 70 °C in NORMAL USE provided with insulation of heat-resistant material when compliance is likely to be impaired due to deterioration of insulation:	No such high temperature is acquired by test indicated in 11.1.	Р	
8.11	Mains parts, components and layout		Р	
8.11.1	a) ME EQUIPMENT provided with means of electrically isolating its circuits from SUPPLY MAINS simultaneously on all poles:	Appliance coupler.	Р	



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Clause	Requirement + Test	Result - Remark	Verdict	
	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.	N/A	
	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 if reconnection would result in a HAZARDOUS SITUATION or		N/A	
	 any OPERATOR including SERVICE PERSONNEL is unable to view the means of isolation from their intended position 		N/A	
	The locking mechanism by the RESPONSIBLE ORGANIZATION, and		N/A	
	- the isolation device specified in the ACCOMPANYING DOCUMENTS	Final determination in the end- product	N/A	
	b) Means of isolation incorporated in ME EQUIPMENT, or if external, described in technical description:	Appliance coupler.	Р	
	c) A SUPPLY MAINS switch used to comply with 8.11.1 a) complies with CREEPAGE and CLEARANCES in IEC 61058-1 for a MAINS TRANSIENT VOLTAGE of 4 kV:	No mains switch	N/A	
	d) A SUPPLY MAINS switch not incorporated in a POWER SUPPLY CORD or external flexible lead	No mains switch	N/A	
	e) Actuator of a SUPPLY MAINS switch used to comply with 8.11.1 a) complies with IEC 60447	No mains switch	N/A	
	f) A suitable plug device such as an APPLIANCE COUPLER or a flexible cord with a MAINS PLUG used in non-PERMANENTLY INSTALLED ME EQUIPMENT with no SUPPLY MAINS switch to isolate it from SUPPLY MAINS considered to comply with 8.11.1 a):	See appended Table 8.10	Р	
	g) A fuse or a semiconductor device not used as an isolating means		Р	
	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		Р	



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Clause	Requirement + Test	Result - Remark	Verdict
	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	N/A
	A clear warning notice is marked on outside of ME EQUIPMENT to indicate it exceeds allowable touch voltage (symbol 10 of Table D.1 is insufficient)		N/A
	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		N/A
	Standard test finger of Fig 6 applied		N/A
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.	N/A
8.11.3	POWER SUPPLY CORDS		N/A
8.11.3.1	MAINS PLUG not fitted with more than one POWER SUPPLY CORD	No power supply cord.	N/A
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.	N/A
	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:		N/A
8.11.3.3	NOMINAL cross-sectional area of conductors of POWER SUPPLY CORDS of ME EQUIPMENT is not less than in Table 17 (mm ² Cu):	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
8.11.3.5	Cord anchorage (for APPLIANCE COUPLERS not complying with IEC 60320-1)		N/A
	a) Conductors of POWER SUPPLY CORD provided with strain relieve and insulation protected from abrasion at point of entry to ME EQUIPMENT or a MAINS CONNECTOR by a cord anchorage	No power supply cord.	N/A
	b) Cord anchorage of POWER SUPPLY CORD is made of and arranged as follows when a total insulation failure of POWER SUPPLY CORD caused conductive non-PROTECTIVELY EARTHED ACCESSIBLE PARTS to exceed limits of 8.4:	No power supply cord.	N/A



	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	- insulating material, or		N/A
	- metal, insulated from conductive ACCESSIBLE PARTS non-PROTECTIVELY EARTHED by a MEANS OF PROTECTION, or		N/A
	- metal provided with an insulating lining affixed to cord anchorage, except when it is a flexible bushing forming part of the cord guard in 8.11.3.6, and complying with the requirements for one MEANS OF PROTECTION		N/A
	c) Cord anchorage prevents cord from being clamped by a screw bearing directly on cord insulation	No power supply cord.	N/A
	d) Screws to be operated when replacing POWER SUPPLY CORD do not serve to secure any components other than parts of cord anchorage	No power supply cord.	N/A
	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 when cord anchorage fails	No power supply cord.	N/A
	f) Cord anchorage prevents POWER SUPPLY CORD from being pushed into ME EQUIPMENT OR MAINS CONNECTOR	No power supply cord.	N/A
	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:		N/A
	Cord subjected to a torque in Table 18 for 1 min immediately after pull tests		N/A
	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		N/A
	CREEPAGE and CLEARANCES not reduced below limits in 8.9		N/A
	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		N/A
8.11.3.6	POWER SUPPLY CORDS other than for STATIONARY ME EQUIPMENT protected against excessive bending at inlet opening of equipment or of MAINS CONNECTOR by means of an insulating cord guard or by means of an appropriately shaped opening	No power supply cord.	N/A



	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Cord guard complied with test of IEC 60335-1:2001, Clause 25.14, or		N/A
	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 ² gram attached to the free end of cord (g):		N/A
	Cord guard of temperature-sensitive material tested at 23 $^{\circ}$ C \pm 2 $^{\circ}$ C, and flat cords bent in the plane of least resistance		N/A
	Curvature of the cord radius, immediately after mass attached, was not less than 1.5 x D:		N/A
8.11.4	Mains terminal devices		N/A
8.11.4.1	PERMANENTLY INSTALLED and ME EQUIPMENT with non-DETACHABLE POWER SUPPLY CORD replaceable by SERVICE PERSONNEL provided with MAINS TERMINAL DEVICES ensuring reliable connection	No mains terminal device.	N/A
	Terminals alone are not used to keep conductors in position, except when barriers are provided such that CREEPAGE and CLEARANCES cannot be reduced below 8.9 if any conductor breaks away		N/A
	Terminals of components other than terminal blocks complying with requirements of this Clause and marked according to 7.3.7 used as terminals intended for external conductors		N/A
	Screws and nuts clamping external conductors do not serve to secure any other component, except they also clamp internal conductors when unlikely to be displaced when fitting the supply conductors		N/A
3.11.4.2	Arrangement of MAINS TERMINAL DEVICES		N/A
	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.	N/A
	b) PROTECTIVE EARTH CONDUCTOR connections complied with 8.6		N/A
	c) Marking of MAINS TERMINAL DEVICES complied with 7.3		N/A
	d) MAINS TERMINAL DEVICES not accessible without use of a TOOL		N/A
	e) A 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		N/A



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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 below 8.9 after fastening and loosening a conductor of largest cross-sectional area 10 times	No mains terminal device.	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 as verified by test of 8.11.3.4	No mains terminal device.	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, and covers fitted without damage to conductors or their insulation	No mains terminal device.	N/A	
	Correct connection and positioning of conductors before ACCESS COVER was fitted verified by an installation test		N/A	
8.11.5	Mains fuses and OVER-CURRENT RELEASES		Р	
	A fuse or OVER-CURRENT RELEASE provided in each supply lead for CLASS I and CLASS II ME EQUIPMENT with a functional earth connection per clause 8.6.9, and in at least one supply lead for other single-phase CLASS II ME EQUIPMENT:	See appended Table 8.10.	Р	
	- neutral conductor not fused for PERMANENTLY INSTALLED ME EQUIPMENT	Not permanently installed.	N/A	
	Effect of short-circuit fault conditions in other circuits VERIFIED before eliminating fuses or OVER-CURRENT RELEASES		N/A	
	Protective devices have adequate breaking capacity to interrupt the maximum fault current including the available short-circuit:	See appended Table 8.10	Р	
	A fuse or OVER-CURRENT RELEASE not provided in a PROTECTIVE EARTH CONDUCTOR		Р	
	Fuses complying with IEC 60127 have high breaking capacity (1 500 A) and prospective short-circuit current > 35 A or 10 times current rating of the fuse, whichever is greater	EUT is only component, high breaking capacity fuse not used To be evaluated on end product	N/A	
8.11.6	Internal wiring of the MAINS PART	•	Р	
	a) Cross-sectional area of internal wiring in a MAINS PART between MAINS TERMINAL DEVICE or APPLIANCE INLET and protective devices is not less than minimum required for POWER SUPPLY CORD as in clause 8.11.3.3 (mm² Cu):	No such internal wire.	N/A	



	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	b) Cross-sectional area of other wiring in MAINS PART and sizes of tracks on printed wiring circuits sufficient to prevent fire in case of fault currents:		N/A
	When necessary, ME EQUIPMENT connected to a SUPPLY MAINS with max available short-circuit fault, and subsequent simulation of a fault in a single insulation in MAINS PART did not result in any of the HAZARDOUS SITUATIONS in 13.1.2		N/A
9	PROTECTION AGAINST MECHANICAL HAZARD	S OF ME EQUIPMENT AND	Р
9.1	ME EQUIPMENT complies with Clause 4 for design and manufacture, and mechanical strength (15.3)		Р
9.2	HAZARDS associated with moving parts	Final determination in the end product.	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.	Р
9.4	Instability HAZARDS	Component, to be determined as part of end product	N/A
9.5	Expelled parts HAZARD	No such parts	N/A
9.6	Acoustic energy (including infra- and ultrasound) and vibration	Component, to be determined as part of end product	N/A
9.7	Pressure vessels and parts subject to pneumatic and hydraulic pressure	No such parts	N/A
9.8	HAZARDS associated with support systems	Component, to be determined in the end product.	N/A
10	PROTECTION AGAINST UNWANTED AND EXCE	SSIVE RADIATION HAZARDS	N/A
	X-Radiation	Not applicable to component power supply	N/A
11	PROTECTION AGAINST EXCESSIVE TEMPERATURES AND OTHER HAZARDS		
11.1	Excessive temperatures in ME EQUIPMENT		Р
11.1.1	Temperatures on ME EQUIPMENT parts did not exceed values in Tables 22 and 23 operating in worst-case NORMAL USE at maximum rated ambient operating temperature T:	See appended Table 11.1.1.	Р
	Surfaces of test corner did not exceed 90 °C		Р
	THERMAL CUT-OUTS did not operate in NORMAL CONDITION	No thermal cut-out	N/A



	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
11.1.2	Temperature of APPLIED PARTS	No such parts	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:	See appended Table 11.1.3 Acceptability of obtained values to be determined in the end product.	N/A
	Test corner not used where engineering judgment and rationale by MANUFACTURER indicated test corner will not impact measurements, as documented in RISK MANAGEMENT FILE	Test corner used	N/A
11.1.4	GUARDS preventing contact with hot or cold accessible surfaces removable only with a TOOL	No such guards	N/A
11.2	Fire prevention		Р
11.2.1	ENCLOSURE has strength and rigidity necessary to prevent a fire caused by reasonably foreseeable misuse and met mechanical strength tests for ENCLOSURES in 15.3		Р
11.2.2	Me equipment and me systems used in conjunction with OXYGEN RICH ENVIRONMENTS	Component, not evaluated for use with Oxygen Rich Environment	N/A
11.2.3	SINGLE FAULT CONDITIONS related to OXYGEN RICH ENVIRONMENTS ME EQUIPMENT and ME SYSTEMS considered	Component, not evaluated for use with Oxygen Rich Environment	N/A
11.3	Constructional requirements for fire ENCLOSURES of ME EQUIPMENT		Р
	ME EQUIPMENT met this clause for alternate means of compliance with selected HAZARDOUS SITUATIONS and fault conditions in 13.1.2:	Risk Management Report page 11 H2	Р
	Constructional requirements were met, or		Р
	a) Flammability classification of insulated wire within fire ENCLOSURE is FV-1, or better, based on IEC 60695 series as determined by examination of data on materials:	See appended Table 8.10	Р
	Flammability classification of connectors, printed circuit boards, and insulating material on which components are mounted is FV-2, or better, based on IEC 60695-11-10 as decided by examination of materials data:	See appended Table 8.10	Р
	If no FV Certification, FV 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	N/A
	b) Fire ENCLOSURE met following:		Р



	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	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 ≤ 2 x 2 mm centre to centre and wire diameter of at least 0.45 mm	No openings on the enclosure.	Р
	2) No openings on the sides within the area included within the inclined line C in Fig 39		Р
	3) ENCLOSURE, baffles, and flame barriers have adequate rigidity and are made of appropriate metal or of non-metallic materials, except constructions based on Table 25 and a mesh; FV-2 or better for TRANSPORTABLE ME EQUIPMENT, FV-1 or better for fixed EQUIPMENT, or STATIONARY EQUIPMENT per IEC 60695-11-10, determined by ENCLOSURE examination or flammability classification based on 11.3a):	See appended Table 8.10	Р
11.4	ME EQUIPMENT and ME SYSTEMS intended for use with flammable anaesthetics	Not evaluated for use in the presence of flammable anaesthetics.	N/A
11.5	ME EQUIPMENT and ME SYSTEMS intended for use in conjunction with flammable agents	Not evaluated for use in the presence of flammable agent.	N/A
11.6	Overflow, spillage, leakage, ingress of water or particulate matter, cleaning, disinfection, sterilization and compatibility with substances used with the ME EQUIPMENT	Final determination to be competed in the end product	N/A
11.6.5	Ingress of water or particulate matter into ME EQUIPMENT and ME SYSTEMS		Р
	ME EQUIPMENT with IP Code placed in least favourable position of NORMAL USE and subjected to tests of IEC 60529 (IP Code):	IP20	Р
	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	Р
11.7	ME EQUIPMENT, ME SYSTEM, and ACCESSORIES coming into direct or indirect contact with biological tissues, cells, or body fluids assessed and documented per ISO 10993	Component, to be determined in end-product evaluation.	N/A
11.8	Interruption and restoration of power supply did not result in a loss of BASIC SAFETY or ESSENTIAL PERFORMANCE	Component, to be determined in end-product evaluation.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
12	ACCURACY OF CONTROLS AND INSTRUMENTS AND PROTECTION AGAINST HAZARDOUS OUTPUTS		N/A	
12.1	RISKS associated with accuracy of controls and instruments stated in RISK MANAGEMENT PROCESS confirmed by RISK MANAGEMENT FILE review:	Not applicable to component power supply	N/A	
	PROTECTION AGAINST HAZARDOUS OUTPUT:	Not applicable to component power supply	N/A	
13	HAZARDOUS SITUATIONS AND FAULT CONDIT	TIONS	Р	
13.1	Specific HAZARDOUS SITUATIONS		Р	
13.1.1	None of HAZARDOUS SITUATIONS in 13.1.2-13.1.4, inclusive, occurred when SINGLE FAULT CONDITIONS applied, one at a time, as in 4.7 and 13.2		Р	
13.1.2	Emissions, deformation of ENCLOSURE or exceed	ing maximum temperature	Р	
	 Emission of flames, molten metal, poisonous or ignitable substance in hazardous quantities did not occur 		Р	
	- Deformation of ENCLOSURE impairing compliance with 15.3.1 did not occur		Р	
	- Temperatures of ME EQUIPMENT parts that are not APPLIED PARTS likely to be touched did not exceed values in Table 23 when measured and adjusted as in 11.1.3:	See appended Tables 11.1.1, 11.1.2.1, and 11.1.2.2	Р	
	-Allowable values for "other components and materials" in Table 22 times 1.5 minus 12.5 °C were not exceeded		Р	
	Limits for windings in Tables 26, 27, and 31 not exceeded		Р	
	Table 22 not exceeded in all other cases		Р	
	Temperatures measured according to 11.1.3		Р	
	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:	Test wasn't exempted.	N/A	
	Supply circuit was unable to supply 15 W one minute after 15 W drawn from supply circuit in SINGLE FAULT CONDITION:		N/A	
	- or secondary circuits mounted on materials with a minimum flame rating of FV1, and		N/A	
	- Secondary circuits energized by less than 60 Vdc, 42.4 Vpeak in NC and SFC, and		N/A	
	- Secondary circuits limited to 100 VA or 6000 J in NC and SFC, and		N/A	



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Clause	Requirement + Test	Result - Remark	Verdict	
	- Wire insulation in secondary circuits of types PVC, TFE, PTFE, FEP, polychloroprene or polybromide		N/A	
	- or components in the circuit have HIGH INTEGRITY CHARACTERISTICS:		N/A	
	or parts and components completely contained within a fire ENCLOSURE complying with 11.3 as verified by review of design documentation		N/A	
	After tests of this Clause, settings of THERMAL CUT-OUTS and OVER-CURRENT RELEASES did not change sufficiently to affect their safety function	Fuse only	Р	
13.1.3	- limits for LEAKAGE CURRENT in SINGLE FAULT CONDITION based on 8.7.3 did not exceed:	See appended Table 8.7	Р	
	- voltage limits for ACCESSIBLE PARTS including APPLIED PARTS in 8.4.2 did not exceed:	See appended Table 8.7	Р	
13.1.4	ME EQUIPMENT complied with the requirements of 9.1 to 9.8 for specific MECHANICAL HAZARDS	Component, to be determined in end product evaluation.	N/A	
13. 2	SINGLE FAULT CONDITIONS		Р	
13.2.1	During application of SINGLE FAULT CONDITIONS in 13.2.2 -13.2.13, inclusive, NORMAL CONDITIONS in 8.1 a) applied in least favourable combination:	See appended Table 13.2	Р	
13.2.2 – 13.2.12	ME EQUIPMENT complied with 13.2.2 -13.2.12:	See appended Table 13.2 Final determination to be competed in the end product	Р	
13.2.13	ME EQUIPMENT remained safe after tests of 13.2.13.2 to 13.2.13.4 (inclusive), and cooling down to within 3 °C of the temperature in the test environment		Р	
	ME EQUIPMENT examined for compliance or appropriate tests such as dielectric strength of motor insulation according to 8.8.3 conducted		Р	
	For insulation of thermoplastic materials relied upon as a MEANS OF PROTECTION (see 8.8), the ball-pressure test specified in 8.8.4.1 a) performed at a temperature 25 °C higher than temperature of insulation measured during tests of 13.2.13.2 to 13.2.13.4 (inclusive).		Р	
13.2.13.2	ME EQUIPMENT with heating elements	No Heating Elements provided	N/A	
13.2.13.3	ME EQUIPMENT with motors	No motors provided in power supply	N/A	
13.2.13.4	ME EQUIPMENT RATED for NON-CONTINUOUS OPERATION	DN	N/A	



	IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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 ≤ 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):		_	
14	PROGRAMMABLE ELECTRICAL MEDICAL SYS	TEMS (PEMS)	N/A	
	Requirements of this clause not applied to power supply	No Such Parts/ PESS not relied upon for Basic Safety or Essential Performance	N/A	
15	CONSTRUCTION OF ME EQUIPMENT		Р	
15.1	RISKS associated with arrangement of controls and indicators of ME EQUIPMENT addressed through the application of a USABILITY ENGINEERING PROCESS in accordance with IEC 60601-1-6, when applicable:	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	
	Inspection, servicing, replacement, and adjustment of parts of ME EQUIPMENT can easily be done without damage to or interference with adjacent parts or wiring		N/A	
15.3	Mechanical strength		Р	
15.3.1	Mould stress relief, push, impact, drop, and rough handling tests did not result in loss of BASIC SAFETY OR ESSENTIAL PERFORMANCE		Р	
15.3.2	Push test conducted by subjecting external parts of ENCLOSURE to a steady force of 250 N ± 10 N for 5 s applied to a circular (30mm) plane surface, except bottom of ENCLOSURE of an ME EQUIPMENT >18 kg, using a suitable test tool:	See Appended Table 15.3. Final determination to be competed in the end product	Р	
	No damage resulting in an unacceptable RISK sustained	See Appended Table 15.3.	Р	



IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
15.3.3	Impact test conducted by subjecting a complete ENCLOSURE or its largest non-reinforced area, except for HAND-HELD ME EQUIPMENT and parts, to a free falling 500 g ± 25 g solid smooth steel ball, pprox 50 mm in diameter from a height of 1.3 m	See Appended Table 15.3. Final determination to be competed in the end product	Р
	No damage resulting in an unacceptable RISK sustained	See Appended Table 15.3.	Р
15.3.4	Drop test		Р
15.3.4.1	Sample of HAND-HELD ME EQUIPMENT, ACCESSORIES and HAND-HELD part with SAFE WORKING LOAD allowed to fall freely once from each of 3 different positions as in NORMAL USE from height specified in ACCOMPANYING DOCUMENTS, or from 1 m onto a 50 mm ± 5 mm thick hardwood board lying flat on a concrete or rigid base	No HAND-HELD ME EQUIPMENT.	N/A
	No unacceptable RISK resulted		N/A
15.3.4.2	Sample of PORTABLE ME EQUIPMENT, ACCESSORIES and PORTABLE part with SAFE WORKING LOAD lifted to a height as in Table 29 above a 50 ± 5 mm thick hardwood board lying flat on a concrete floor or rigid base, dropped 3 times from each orientation in NORMAL USE (cm)	See Appended Table 15.3. Final determination to be competed in the end product	Р
	No damage resulting in an unacceptable RISK sustained	No damage	N/A
15.3.5	Rough handling tests for MOBILE ME EQUIPMENT	Not mobile ME equipment.	N/A
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		Р
	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	90 °C	Р
	No damage resulting in an unacceptable RISK	No damage.	Р
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



IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
	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	Component, to be determined in end product evaluation.	N/A
15.4	ME EQUIPMENT components and general assembl	у	N/A
15.4.1	Incorrect connection of accessible connectors, removable without a TOOL, prevented where an unacceptable RISK exists, in particular:	No such connections	N/A
15.4.2	Temperature and overload control devices		N/A
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 described in 13.1by resetting action as verified by review of the design documentation and RISK MANAGEMENT FILE	Risk Management report page 12 EL6	N/A
	b) THERMAL CUT-OUTS with a safety function that are 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 where a failure of a THERMOSTAT could in a HAZARDOUS SITUATION described in 13.1; the temperature of operation of the additional device is outside that attainable at the extreme setting of the normal control device, but within the temperature limit for the ME EQUIPMENT:	No such part.	N/A
	d) Operation of THERMAL CUT-OUT OR OVER CURRENT RELEASE doesn't result in a HAZARDOUS SITUATION described in 13.1 or the loss of ESSENTIAL PERFORMANCE:	No such part.	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 of ME EQUIPMENT as verified by following tests:		N/A
	Positive temperature coefficient devices (PTC's) complied with IEC 60730-1: 2010, Clauses 15, 17, J.15, and J.17 as applicable		N/A
	ME EQUIPMENT containing THERMAL CUT-OUTS and OVER-CURRENT RELEASES operated under the conditions of Clause 13:	See appended Table 13.2	N/A



IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Self-resetting thermal cut-outs and over- current releases including circuits performing equivalent functions (other than PTC's) 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 (other than PTC's) operated 200 times		N/A
	Manual reset THERMAL CUT-OUTS and OVER- CURRENT RELEASES Certified in accordance with appropriate IEC standards		N/A
	When certification based on IEC standards, or data from MANUFACTURER demonstrating reliability of component to perform its safety-related function is not available, 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, provided on ME EQUIPMENT 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 in both leads where a conductive connection to earth could result in overheating as verified by review of design and RISK MANAGEMENT FILE:	No such part.	N/A
15.4.2.2	Temperature settings clearly indicated when means provided to vary setting of THERMOSTATS	Not applicable to component power supply	N/A
15.4.3	Batteries		N/A
15.4.3.1	Battery housings from which gases can escape during charging or discharging are ventilated to prevent unacceptable RISK from accumulation of gasses and possible ignition:	No batteries.	N/A
	Battery compartments designed to prevent accidental short circuiting of battery when this could result in a HAZARDOUS SITUATION as described in clause 13.1		N/A
15.4.3.2	Means provided to prevent incorrect connection of polarity when a HAZARDOUS SITUATION may develop by incorrect connection or replacement of a battery:		N/A



IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
15.4.3.3	Overcharging of battery prevented by virtue of design when it could result in an unacceptable RISK as verified by review of design:		N/A
15.4.3.4	Primary lithium batteries comply with IEC 80086-4		N/A
	Secondary lithium batteries comply with IEC 62133		N/A
15.4.3.5	A properly RATED protective device provided within INTERNAL ELECTRICAL POWER SOURCE to protect against fire caused by excessive currents when (in case of a short circuit) layout of internal wiring, cross-sectional area, rating of connected components can result in a fire:		N/A
	Protective device has adequate breaking capacity to interrupt the maximum fault current		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 described in clause 13.1		N/A
15.4.4	Indicator lights provided to indicate ME EQUIPMENT is ready for NORMAL USE, except when apparent to OPERATOR from normal operating position, and marking of 7.4.1 are insufficient for this purpose:	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, except when apparent to OPERATOR from normal operating position		N/A
	Indicator lights provided on ME EQUIPMENT incorporating non-luminous heaters to indicate heaters are operational when a HAZARDOUS SITUATION could exist, except when apparent to OPERATOR from normal operating position		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 where an accidental or prolonged operation of output circuit could constitute a HAZARDOUS SITUATION		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 in ME EQUIPMENT incorporating a means for charging an INTERNAL ELECTRICAL POWER SOURCE		N/A
15.4.5	Pre-set controls	No such parts in power supply	N/A
15.4.6	Actuating parts of controls of ME EQUIPMENT	No such parts in power supply	N/A
15.4.7	Cord-connected HAND-HELD and foot-operated control devices	No such parts in power supply	N/A
15.4.8	Aluminium wires less than 16 mm ² in cross- sectional area are not used	No such wire.	N/A
15.4.9	Oil container in PORTABLE ME EQUIPMENT	No such parts in power supply	N/A
15.5	MAINS SUPPLY TRANSFORMERS OF ME EQUIPMENT and separation in accordance with 8.5	I transformers providing	Р
15.5.1	Overheating		Р
15.5.1.1	Transformers of ME EQUIPMENT are protected against overheating in the event of short circuit or overload of output windings and comply with this Clause and tests of 15.5.1.2 – 3:	See appended Tables 15.5.1.2 and 15.5.1.3	Р
	During tests, windings did not open, no HAZARDOUS SITUATION occurred, and maximum temperatures of windings did not exceed values in Table 31		Р
	Dielectric strength test of 8.8.3 conducted on transformer after short circuit and overload tests:	See appended Table 15.5.2	Р
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	Р
	Short circuit applied directly across output windings for transformers not tested according to 5X frequency and 5X voltage test of 15.5.2 a) or 2x frequency and 2x voltage test of 15.5.2 b)		N/A
15.5.1.3	Multiple overload tests conducted on windings with more than one protective device to evaluate worst-case NORMAL USE loading and protection:	No more than one protective device	N/A
15.5.2	Transformers operating at a frequency above 1 kHz tested in accordance with clause 8.8.3:		N/A
	Transformer windings provided with adequate insulation to prevent internal short-circuits that could cause overheating which could result in a HAZARDOUS SITUATION		Р
	Dielectric strength tests were conducted in accordance with requirements of this clause with no breakdown of insulation system and no detectable deterioration of transformer:	See appended Table 15.5.2	Р

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Clause	Requirement + Test	Result - Remark	Verdict
15.5.3	Transformers forming MEANS OF PROTECTION as required by 8.5 comply with:	Transformer evaluated according to the requirements of this standard.	Р
	- Means provided to prevent displacement of end turns beyond the inter-winding insulation		Р
	- protective earth screens with a single turn have insulated overlap not less than 3mm and the width of the screen is at least equal to the axial winding length of the primary side		Р
	- Exit of wires form internal windings of toroid transformers protected with double sleeving providing 2 MOPs and a total wall thickness of 0.3mm extending 20mm from the windings		Р
	- insulation between primary and secondary windings complies with 8.8.2		Р
	- CREEPAGE DISTANCES and AIR CLEARANCE comply with 8.9.4 and the exceptions of this sub-clause		Р
16	ME SYSTEMS		N/A
	Evaluation of ME SYSTEMS:	Component power supply; compliance determined in the end product	N/A
17	ELECTROMAGNETIC COMPATIBILITY OF ME EC	QUIPMENT AND ME	Р
	RISKS associated with items addressed in RISK MANAGEMENT PROCESS as confirmed by review.:		Р
ANNEX G	PROTECTION AGAINST HAZARDS OF IGNITION ANESTHETIC MIXTURES	OF FLAMMABLE	N/A
	Parts of CATEGORY APG ME EQUIPMENT in which a FLAMMABLE ANESTHETIC MIXTURE WITH AIR OCCURS	Not evaluated for use with Flammable Anesthetic Mixture	N/A
ANNEX L	INSULATED WINDING WIRES FOR USE WITHOUN	JT INTERLEAVED	N/A
L.1	BASIC, SUPPLEMENTARY, DOUBLE, and REINFORCED INSULATION in wound components without interleaved insulation complied with this Annex covering round winding wires between 0.05 mm and 5.00 mm diameters	Approved TIW is used in mains transformer.	N/A
L.2	Wire construction		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	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
3	Type Test		N/A
	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.	N/A
	Temperature (°C):		_
	Humidity (%)::		_
3.1	Dielectric strength		N/A
	Dielectric strength test of Clause 8.8.3 for the appropriate type and number of MOP(s) conducted by preparing the sample according to IEC 60851-5:1996, Clause 4.4.1 for a twisted pair with test voltages at least twice Tables 6 & 7, but not less than below with no breakdown:	Approved TIW is used in mains transformer.	N/A
	- 3000 V for BASIC and SUPPLEMENTARY INSULATION (V):		N/A
	- 6000 V for REINFORCED INSULATION (V):		N/A
3.2	Flexibility and adherence		N/A
	Sample subjected to flexibility and adherence test 8 of IEC 60851-3:1996, clause 5.1.1, using mandrel diameters of Table L.1	Approved TIW is used in mains transformer.	N/A
	Sample examined according to IEC 60851-3: 1997, clause 5.1.1.4, followed by dielectric test of clause 8.8.3, except test voltage applied between wire and mandrel with no breakdown		N/A
	Test voltage was at least the voltage in Tables 6 and 7but not less than the following:		N/A
	- 1500 V for BASIC and SUPPLEMENTARY INSULATION (V):		N/A
	- 3000 V for REINFORCED INSULATION (V):		N/A
	Tension applied to wire during winding on mandrel calculated from the wire diameter equivalent to 118 Mpa ± 11.8 Mpa:		N/A
3.3	Heat Shock	•	N/A
	Sample subjected to heat shock test 9 of IEC 60851-6:1996, followed by dielectric strength test of clause 8.8.3, except test voltage applied between the wire and mandrel	Approved TIW is used in mains transformer.	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Test voltage was at least the voltage in Tables 6 and 7, but not less than the following:		N/A
	- 1500 V for BASIC and SUPPLEMENTARY INSULATION (V):		N/A
	- 3000 V for REINFORCED INSULATION (V):		N/A
	Oven temperature based on Table L.2 (°C):		_
	Mandrel diameter and tension applied as in clause L.3.2, (Mpa; N/mm²):		N/A
	Dielectric strength test conducted at room temperature after removal from the oven		N/A
L.3.4	Retention of electric strength after bending		
	Five samples prepared as in L.3.2 subjected to dielectric strength and bending tests	Approved TIW is used in mains transformer.	N/A
	Test voltage was at least the voltage in Tables 6 and 7, but not less than the following:		N/A
	- 1500 V for BASIC and SUPPLEMENTARY INSULATION (V):		N/A
	- 3000 V for REINFORCED INSULATION (V):		N/A
	Test voltage applied between the shot and conductor.		N/A
	Mandrel diameter and tension applied as in L.3.2, (Mpa; N/mm²):		N/A
L.4	Tests during manufacture		N/A
L.4.1	Production line dielectric strength tests conducted by the manufacture according to L.4.2 and L.4.3:	Approved TIW is used in mains transformer.	N/A
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.	N/A
	- 1500 V r.m.s. or 2100 V peak for BASIC and SUPPLEMENTARY INSULATION (V)		N/A
	- 3000 V r.m.s. or 4200 V peak for REINFORCED INSULATION (V):		N/A
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.	N/A
	Minimum breakdown test voltage at least twice the voltage in Tables 6 and 7 but not less than:		N/A
	- 3000 V r.m.s. or 4200 V peak for BASIC and SUPPLEMENTARY INSULATION:		N/A
	- 6000 V r.m.s. or 8400 V peak for REINFORCED INSULATION:		N/A



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Clause	Requirement + Test	Result - Remark	Verdict

4.2.2	RM RESULTS TABLE: G	General requirements for F	RISK MANAGEMENT	Р
Clause of ISO 14971	Document Ref. in RMF (paragraph/clause, version		Result - Remarks	Verdict
	General process	Particular Medical Device		
3.1	Risk management procedure GTQPR05000 A2. 5.0	_	Risk Management Process (excluding production and post-production)	Р
3.2	Risk management procedure GTQPR05000 A2. 5.0	_	Adequate Resources	Р
3.2	Risk management procedure GTQPR05000 A2. 5.0	_	Assignment of qualified personnel	Р
3.2	Risk management procedure GTQPR05000 A2. 5.0	_	Policy for determining criteria for risk acceptability	Р
3.3	_	Risk Management Report 2.0	Qualification of personnel	Р
3.4a	_	Risk management plan GT-RMPLAN2020-002	Scope of risk management activities/identification and description of device/ applicable life-cycles	Р
3.4b	_	Risk management plan GT-RMPLAN2020-002	Assignment of responsibilities and authorities	Р
3.4c	_	Risk management plan GT-RMPLAN2020-002	Requirement for review of risk management activities	Р
3.4d	_	Risk management plan GT-RMPLAN2020-002	Criteria for risk acceptability	Р
3.4e	_	Risk management plan GT-RMPLAN2020-002	verification activities	Р
3.5	_	Risk management plan GT-RMPLAN2020-002	RMF	Р
4.1	_	Risk management procedure GTQPR05000 A 2 6.0 Comments produced during clause 4.2 and 4.4 shall include: -Identification/description of the device -Identification of the persons involved in the risk analysis -Scope and date of the risk analysis		Р
4.2	_	Risk Management Report GT-RM2020-002 6.1	Risk Management Report GT-RM2020-002 Identification of characteristics	
4.3	_	Risk Management Report GT-RM2020-002 6.2	Hazards identification	Р
4.4		Risk Management Report GT-RM2020-002 6.4	Risk estimation	Р



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

4.2.2	RM RESULTS TABLE:	General requirements for F	RISK MANAGEMENT	Р	
Clause of ISO 14971	Document Ref. in RMF (Document No. paragraph/clause, version)		Result - Remarks	Verdict	
	General process	Particular Medical Device			
5	_	Risk Management Report GT-RM2020-002 7	Risk evaluation	Р	
6.2	_	Risk Management Report GT-RM2020-002 8.1	Risk control options	Р	
6.3	_	Risk Management Report GT-RM2020-002 8.1	Implementation/effectiveness of risk control	Р	
6.4	_	Risk Management Report GT-RM2020-002 8.2	Residual risk evaluation	Р	
6.5	_	Risk Management Report GT-RM2020-002 8.3	Risk/benefit analysis	Р	
6.6a	_	Risk Management Report GT-RM2020-002 8.1	Introduction of new risks due to risk control	Р	
6.6b	_	Risk Management Report GT-RM2020-002 8.2	Estimation of previously risk due to risk control	Р	
6.7	_	Risk Management Report GT-RM2020-002 8.1	Completeness of risk control	Р	
7	_	Risk Management Report GT-RM2020-002 10	Overall residual risk evaluation	Р	
8	_	Risk Management Report GT-RM2020-002 A2	Risk Management Report	Р	

Supplementary Information:

Document Ref should be with regards to the policy/procedure documents and documents containing device specific output.

4.3	TABLE: ESSENTIAL PERFORMANCE	
4.5	RM RESULTS TABLE: Equivalent Safety for ME Equipment of ME System	N/A
4.6	RM RESULTS TABLE: ME Equipment or system parts contacting the patient	N/A





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Clause	Requirement + Test	Result - Remark	Verdict
4.7	RM RESULTS TABLE: Single Fau	It Condition for ME Equipment	N/A
4.8	RM RESULTS TABLE: Componen	nts of ME Equipment	N/A
	·		
4.0	DM DECLUTO TABLE. He act as a		NI/A
4.9	KM RESULTS TABLE: Use of con	nponents with high-integrity characteristics	N/A



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Clause	Requirement + Test	Result - Remark	Verdict

4.11 TABLE: Power Input					Р
Operating Conditions / Ratings	Voltage (V)	Frequency (Hz)	Current (A)	Power (W or VA)	Power factor (cos φ)
Model: GTM86101-1205.95-W2	•				
Normal condition	90	50	0.283	15.2	0.598
Normal condition	90	60	0.290	15.4	0.587
Normal condition	100	50	0.259	15.2	0.588
Normal condition	100	60	0.268	15.3	0.570
Normal condition	240	50	0.134	15.6	0.484
Normal condition	240	60	0.132	15.9	0.502
Normal condition	264	50	0.126	16.0	0.478
Normal condition	264	60	0.123	16.0	0.493
Model: GTM86101-1215-W2	•				
Normal condition	90	50	0.258	13.8	0.593
Normal condition	90	60	0.265	13.8	0.580
Normal condition	100	50	0.234	13.6	0.581
Normal condition	100	60	0.243	13.7	0.563
Normal condition	240	50	0.123	14.2	0.481
Normal condition	240	60	0.120	14.5	0.498
Normal condition	264	50	0.115	14.4	0.475
Normal condition	264	60	0.112	14.5	0.487
Model: GTM86101-1224-W2	•				
Normal condition	90	50	0.247	13.2	0.592
Normal condition	90	60	0.253	13.2	0.577
Normal condition	100	50	0.225	13.1	0.577
Normal condition	100	60	0.233	13.1	0.561
Normal condition	240	50	0.119	13.6	0.480
Normal condition	240	60	0.117	13.6	0.494
Normal condition	264	50	0.112	14.0	0.473



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Clause	Requirement + Test	Result - Remark	Verdict	

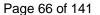
4.11	TABLE: Power Input					Р
Oper	ating Conditions / Ratings	Voltage (V)	Frequency (Hz)	Current (A)	Power (W or VA)	Power factor (cos φ)
Normal co	ondition	264	60	0.109	14.0	0.487
Model: G	TM86101-1212-W2					
Normal co	ondition	90	50	0.262	14.1	0.595
Normal co	ondition	90	60	0.269	14.0	0.583
Normal co	ondition	100	50	0.240	14.0	0.583
Normal co	ondition	100	60	0.247	14.0	0.566
Normal co	ondition	240	50	0.123	14.3	0.482
Normal co	ondition	240	60	0.121	14.5	0.498
Normal co	ondition	264	50	0.115	14.4	0.473
Normal co	ondition	264	60	0.113	14.5	0.489
Supplem	entary Information:	•			1	1

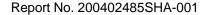
5.1	RM RESULTS TABLE: Type Tests		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph) Result - Remarks		Verdict
4.2			
4.3			
4.4			

5.9.2	TABLE: Determination of ACCESSIBLE parts			Р
Location		Determination method (NOTE1)	Comments	
Enclosure		Test finger, test hook	Can't insert	

Supplementary information:

NOTE 1 - The determination methods are: visual; rigid test finger; jointed test finger; test hook.







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Clause	Requirement + Test	Result - Remark	Verdict		

7.1.2	TABLE: Legibility of Marking				
Markings tested		Ambient Illuminance (lx)	Remarks		
Outside Markings (Clause 7.2):		100-1500 lx	Clearly legible		
Inside Markings (Clause 7.3):					
Controls	& Instruments (Clause 7.4):				
Safety Signs (Clause 7.5):					
Symbols	(Clause 7.6):	100-1500 lx	Clearly legible		

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			
Characteristics of the Marking Label tested:			Remarks	
Material of	Marking Label:	PET		
Ink/other printing material or process:		Heat transfer print		
Material (c	omposition) of Warning Label:			
Ink/other printing material or process:				
Other	·····:			

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.

7.2.2	RM RESULTS TABLE: Identification	N/A
7.2.13	RM RESULTS TABLE: Physiological effects (safety signs and warning)	N/A
7.2.17	RM RESULTS TABLE: Protective packaging	N/A
7.3.3	RM RESULTS TABLE: Batteries	N/A



				IEC 606	01-1			
Clause	Red	quirement +	Test		Re	esult - Remark		Verdict
7.3.7	RI	RM RESULTS TABLE: Supply terminals						
7.4.2	RM RESULTS TABLE: Control devices							N/A
7.5	RM RESULTS TABLE: Safety signs							N/A
7.9.2.4	RI	RM RESULTS TABLE: Electrical power source						
7.9.3.2	2 RM RESULTS TABLE: Replacement of fuses, power supply cords, other parts							N/A
8.1 b				undamental rule of conductors a			lectric shock	N/A
8.4.2	Т	ABLE: TAB	LE: Working	g Voltage / Pow	er Measure	ement		P
Test supp	ly vo	ltage/freque	ency (V/Hz) ¹			:	264V / 60Hz	
Locatio From/T		Vrms	Vpk or Vdc	Measured value Peak-to- peak ripple ²	Power W/VA	Energy (J)	Remarks	
Transform primary to secondary)	Max. 280Vrms					For all models	6
Y capacito primary to secondary)	Max. 92Vrms					For all models	5
Secondary output connector			<60Vdc	<10%			For all models	6

Supplementary Information:

- 1. 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.
- 2. If the d.c peak-to-peak ripple >10%, waveform considered as a.c. See clause 8.4.2.2



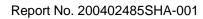


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Clause	Requirement + Test	Result - Remark	Verdict		
	·				

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									Р	
Maximum allowable voltage (V)							: 60		
		Vo	ltage m	easured	l (V)					
Voltage Measured Between:	1	2	3	4	5	6	7	8	9	10
Plug pins 1 and 2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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 c	harge v	vhen me	easured	voltage	e excee	ded 60	v (μc)	: 45		
		Calcula	ated sto	red cha	rge (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:				1		1	1		1	



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		IEC 60601-1	l			
Clause	Requirement + Test		Result - Remark		Verdict	
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						
Maximum	n allowable residual voltage	· (V):		60 V		
Maximum	n allowable stored charge w	hen residual voltage	exceeded 60 V:	45 μC		
	Description of the capacitive circuit (i.e., accessible capacitor or circuit parts) Measured residual voltage (V) charge (μC) Rem					
Supplem	entary information:	L				
8.5.2.2	RM RESULTS TABLE: 1	Type B applied parts			N/A	
8.5.2.3	RM RESULTS TABLE: F	PATIENT Leads			N/A	
8.5.5.1a	TABLE: defibrillation-proof applied parts – measurement of hazardous electrical energies					
8.5.5.1b	8.5.5.1b TABLE: defibrillation-proof applied parts – verification of recovery time					
8.5.5.2	TABLE: DEFIBRILLATION-PROOF APPLIED PARTS OF PATIENT CONNECTIONS OF DEFIBRILLATION-PROOF APPLIED PARTS - Energy reduction test –measurement of Energy delivered to a 100 Ω load					
8.6.3	RM RESULTS TABLE: F	Protective earthing of	moving parts		N/A	

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

8.6.4	TABLE: Impedance and current connections	N/A			
measured between parts		Test current (A) /Duration (s)	(A) measured calculated		Maximum allowable impedance (mΩ)

Supplementary information:

Permanently installed me equipment, impedance between protective earth terminal and a protectively earthed part - Limit 100 m Ω Me equipment with an appliance inlet, impedance between earth pin in the appliance inlet and a protectively earthed part - Limit 100 m Ω

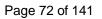
ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the protective earth pin on the DETACHABLE POWER SUPPLY CORD and a PROTECTIVELY EARTHED part - Limit 200 m Ω

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 m Ω



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Clause	Requirement + Test	Result - Remark	Verdict		

8.7 TABLE: leakage current				Р
Type of leakage current and test condition (including single faults)	Supply voltage (V)	Supply frequency (Hz)	Measured max. value (μA)	Remarks
Fig. 13 - Earth Leakage (ER)	_	_	_	Maximum allowed values: 5 mA NC; 10 mA SFC
N/A				
Fig. 14 - Touch Current (TC)	_	_	_	Maximum allowed values: 100 μA NC; 500 μA SFC
GTM86101-1205.95-W2				100 μ/ 110, 000 μ/ 101 σ
B, NC, S1=1, S5=1	264	60	39.7	
B, NC, S1=1, S5=0	264	60	39.2	
B, SFC, S1=0, S5=1	264	60	41.3	
B, SFC, S1=0, S5=0	264	60	43.2	with frequency weighted device
A, NC, S1=1, S5=1	264	60	40.2	with frequency-weighted device
A, NC, S1=1, S5=0	264	60	39.9	
A, SFC, S1=0, S5=1	264	60	43.3	
A, SFC, S1=0, S5=0	264	60	45.5	
B, NC, S1=1, S5=1	264	60	77.8	
B, NC, S1=1, S5=0	264	60	75.4	
B, SFC, S1=0, S5=1	264	60	77.9	
B, SFC, S1=0, S5=0	264	60	78.3	with Not-frequency-weighted
A, NC, S1=1, S5=1	264	60	78.3	device
A, NC, S1=1, S5=0	264	60	76.2	
A, SFC, S1=0, S5=1	264	60	79.5	
A, SFC, S1=0, S5=0	264	60	80.1	
GTM86101-1212-W2	•			
B, NC, S1=1, S5=1	264	60	39.2	
B, NC, S1=1, S5=0	264	60	41.4	
B, SFC, S1=0, S5=1	264	60	47.1	
B, SFC, S1=0, S5=0	264	60	48.5	with from an analysis in the deal of the
A, NC, S1=1, S5=1	264	60	39.7	with frequency-weighted device
A, NC, S1=1, S5=0	264	60	43.2	
A, SFC, S1=0, S5=1	264	60	48.5	
A, SFC, S1=0, S5=0	264	60	49.3	
B, NC, S1=1, S5=1	264	60	74.5	with Not-frequency-weighted
B, NC, S1=1, S5=0	264	60	75.4	device





B, SFC, S1=0, S5=1	IEC 60601-1							
B, SFC, S1=0, S5=0 A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, NC, S1=1, S5=0 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 B, NC, S1=0, S5=1 B, NC, S1=0, S5=1 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1	Clause	Requirement + Test			Result - Rer	mark	Verdict	
A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=0 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=1 C64 C60 C79.5 C71M86101-1215-W2 B, NC, S1=1, S5=1 C64 C60 C79.5 With frequency-weighted device of the control of th	B, SFC, S1=0, S5=1		264	60	78.9			
A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=0 A, SFC, S1=0, S5=0 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=1 B, NC, S1=1, S5=1 B, SFC, S1=0, S5=1 C, S1=0, S1=0, S1=0 C, S1=0, S1=0 C, S1=0, S1=0 C, S1=0, S1	B, SFC, S1=0, S5=0		264	60	77.3			
A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=1 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=1 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=1	A, NC, S1=1, S5=1		264	60	74.7			
A, SFC, S1=0, S5=0 GTM86101-1215-W2 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1	A, NC, S1=1, S5=0		264	60	76.1			
GTM86101-1215-W2 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1	A, SFC, S1=0, S5=1		264	60	79.3			
B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=0 C, S1=0, S5=0 C, S1=0, S5=0 C, S1=0, S5=1 C, S1=0,	A, SFC, S1=0, S5=0		264	60	79.5			
B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=0 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 B, NC, S1=0, S5=1 B, NC, S1=0, S5=1 C64 60 C74.4 C74.4 C75.5 C76.5 C77.5 C77.6 C77.7 C77.6 C77.6 C77.6 C77.6 C77.6 C77.6 C77.6 C77.6 C77.6 C77.7 C77.6 C77.7 C	GTM86101	I-1215-W2			1			
B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=0 CA, NC, S1=1, S5=1 CA, NC, S1=1, S5=0 CA, SFC, S1=0, S5=1 CA, SFC, S1=0, S5=1 CA, SFC, S1=0, S5=0 CA, NC, S1=1, S5=0 CA, NC, S1=1, S5=1 CA, NC, S1=1, S5=0 CA, SFC, S1=0, S5=1 CA, SFC, S1=0, S1=1 CA, SFC, S1=0, S1=1 CA, SFC, S1=0, S1=1 CA, SFC, S1=0, S1=1	B, NC, S1=	=1, S5=1	264	60	35.5			
B, SFC, S1=0, S5=0 A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 A, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 CA, NC, S1=1, S5=0 B, NC, S1=0, S5=1 B, SFC, S1=0, S5=1 CA, NC, S1=1, S5=0 CA, NC, S1=1, S5=0 CA, SFC, S1=0, S5=1 CA, NC, S1=1, S5=0 CA, SFC, S1=0, S5=1 CA, NC, S1=1, S5=0 CA, SFC, S1=0, S5=0 CA,	B, NC, S1=	=1, S5=0	264	60	38.1			
A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 CA, NC, S1=1, S5=0 CA, SFC, S1=0, S5=0 CA, SFC, S1=0, S5=1 CA, SFC, S1=0, S5=1 CA, SFC, S1=0, S5=1 CA, SFC, S1=0, S5=1 CA, SFC, S1=0, S5=0 CA, NC, S1=1, S5=1 CA, NC, S1=1, S5=0 CA, NC, S1=1, S5=0 CA, SFC, S1=0, S5=1 CA, SFC, S1=0, S5=0 CA, SFC, S1=0, S5=1 CA, NC, S1=1, S5=1 CA, NC, S1=1, S5=1 CA, SFC, S1=0, S5=1 CA, NC, S1=1, S5=1 CA, NC, S1=1, S5=1 CA, NC, S1=1, S5=1 CA, SFC, S1=0, S5=1 CA, SFC,	B, SFC, S1=0, S5=1		264	60	39.5	with frequency-weighted device		
A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, SFC, S1=0, S5=0 B, NC, S1=1, S5=1 B, SFC, S1=0, S5=0 B, NC, S1=1, S5=1 B, SFC, S1=0, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=1 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=0, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1	B, SFC, S1=0, S5=0		264	60	39.3			
A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=1 C44 C54 C54 C55 C54 C65 C55 C54 C65 C55 C5	A, NC, S1=1, S5=1		264	60	36.3			
A, SFC, S1=0, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1	A, NC, S1=1, S5=0		264	60	39.3			
B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=0 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=0 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=1 B, SFC, S1=0, S5=0 CABBER	A, SFC, S1=0, S5=1		264	60	41.6			
B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=1, S5=1 B, SFC, S1=1, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=0 B, NC, S1=1, S1=0 B, NC, S1=1,	A, SFC, S1=0, S5=0		264	60	42.8			
B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=0 264 60 76.5 B, SFC, S1=0, S5=0 264 60 76.7 A, NC, S1=1, S5=1 264 60 76.4 A, NC, S1=1, S5=0 264 60 74.5 A, SFC, S1=0, S5=0 264 60 77.1 A, SFC, S1=0, S5=0 264 60 77.1 A, SFC, S1=0, S5=0 264 60 78.5 GTM86101-1224-W2 B, NC, S1=1, S5=0 264 60 41.3 B, SFC, S1=0, S5=0 264 60 41.8 B, SFC, S1=0, S5=0 264 60 41.8 B, SFC, S1=0, S5=0 264 60 41.5 A, NC, S1=1, S5=1 264 60 41.5 A, NC, S1=1, S5=0 264 60 42.7 A, NC, S1=1, S5=0 264 60 42.7 A, NC, S1=1, S5=0 264 60 42.8 A, SFC, S1=0, S5=1 264 60 42.8 A, SFC, S1=0, S5=0 264 60 42.9 B, NC, S1=1, S5=0 264 60 75.1 With Not-frequency-weighted device dev	B, NC, S1=1, S5=1		264	60	74.4	1		
B, SFC, S1=0, S5=0 A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=0 A, SFC, S1=0, S5=0 B, SFC, S1=0, S5=1 Compared to the property of the property	B, NC, S1=1, S5=0		264	60	73.9			
A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=0 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=0 A, NC, S1=1, S5=0 B, SFC, S1=0, S5=0 A, NC, S1=1, S5=1 B, SFC, S1=0, S5=0 A, NC, S1=1, S5=1 B, SFC, S1=0, S5=0 A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=1 B, NC, S1=0, S5=0 B, NC, S1=1, S5=0 C64 C60 C76.4 Cevice device device device device device device	B, SFC, S1=0, S5=1		264	60	76.5			
A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=0 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=0 A, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 A, NC, S1=1, S5=1 B, SFC, S1=0, S5=0 A, NC, S1=1, S5=1 B, SFC, S1=0, S5=1 A, NC, S1=1, S5=0 B, NC, S1=0, S5=1 A, NC, S1=0, S5=1 A, SFC, S1=0, S5=1 B, NC, S1=0, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 Cequation of the viscosity of the	B, SFC, S1=0, S5=0		264	60	76.7			
A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=0 GTM86101-1224-W2 B, NC, S1=1, S5=1 B, NC, S1=0, S5=1 A, NC, S1=0, S5=0 A, NC, S1=1, S5=0 A, NC, S1=1, S5=0 A, NC, S1=1, S5=0 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=1 B, SFC, S1=0, S5=1 C64 C60 C77.1 A 1.3 A 1.3 B 1.3 B 264 C60 C78.7 With frequency-weighted devices a constant of the constant	A, NC, S1=1, S5=1		264	60	76.4			
A, SFC, S1=0, S5=0 GTM86101-1224-W2 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 C44 C54 C54 C65 C67 C67 C67 C67 C67 C67 C67	A, NC, S1=	=1, S5=0	264	60	74.5			
GTM86101-1224-W2 B, NC, S1=1, S5=1 264 60 41.3 B, NC, S1=1, S5=0 264 60 41.8 B, SFC, S1=0, S5=1 264 60 42.7 B, SFC, S1=0, S5=0 264 60 42.7 A, NC, S1=1, S5=1 264 60 41.5 A, NC, S1=1, S5=0 264 60 42.6 A, SFC, S1=0, S5=1 264 60 42.3 A, SFC, S1=0, S5=0 264 60 42.9 B, NC, S1=1, S5=0 264 60 75.1 B, NC, S1=1, S5=0 264 60 78.7 with Not-frequency-weighted device	A, SFC, S1	I=0, S5=1	264	60	77.1			
B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=0 A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 B, NC, S1=0, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 264 60 41.8 41.8 with frequency-weighted device of the d	A, SFC, S1	I=0, S5=0	264	60	78.5			
B, NC, S1=1, S5=0 B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=0 A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 B, NC, S1=1, S5=0 C44 C54 C54 C55 C55 C56 C56 C56	GTM86101	I-1224-W2		1	1			
B, SFC, S1=0, S5=1 B, SFC, S1=0, S5=0 A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 B, NC, S1=0, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 C64 C60 C75.1 With frequency-weighted device de	B, NC, S1=	=1, S5=1	264	60	41.3	with frequency-weighted device		
B, SFC, S1=0, S5=0 A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=1 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 264 60 42.7 with frequency-weighted devices and severe states are severe states as a severe state of the severe states are severe states as a severe state of the severe states are states a	B, NC, S1=	=1, S5=0	264	60	41.8			
A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=0 A, NC, S1=1, S5=0 264 60 41.5 42.6 42.3 42.9 4	B, SFC, S1	I=0, S5=1	264	60	41.8			
A, NC, S1=1, S5=1 A, NC, S1=1, S5=0 A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=0 B, NC, S1=1, S5=0 C64 C60 C60 C75.1 C64 C78.7 With Not-frequency-weighted device	B, SFC, S1	I=0, S5=0	264	60	42.7			
A, SFC, S1=0, S5=1 A, SFC, S1=0, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 264 60 42.3 42.9 8, NC, S1=1, S5=1 264 60 75.1 With Not-frequency-weighted device	A, NC, S1=	=1, S5=1	264	60	41.5			
A, SFC, S1=0, S5=0 B, NC, S1=1, S5=1 B, NC, S1=1, S5=0 264 60 75.1 with Not-frequency-weighted device	A, NC, S1=	=1, S5=0	264	60	42.6			
B, NC, S1=1, S5=1 264 60 75.1 B, NC, S1=1, S5=0 264 60 78.7 with Not-frequency-weighted device	A, SFC, S1	I=0, S5=1	264	60	42.3			
B, NC, S1=1, S5=0 264 60 78.7 with Not-frequency-weighted device	A, SFC, S1	I=0, S5=0	264	60	42.9			
b, NC, S1=1, S5=0 204 60 76.7 device	B, NC, S1=	=1, S5=1	264	60	75.1			
	B, NC, S1=1, S5=0		264	60	78.7			
	B, SFC, S1	, SFC, S1=0, S5=1		60	75.6			



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Clause	Requirement + Test			Result - Rer	mark	Verdict
B, SFC, S1	=0, S5=0	264	60	74.6		
A, NC, S1=	:1, S5=1	264	60	76.2		
A, NC, S1=	1, S5=0	264	60	79.4		
A, SFC, S1	=0, S5=1	264	60	76.6		
A, SFC, S1	=0, S5=0	264	60	75.9		

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;

Note 3: For PATIENT LEAKAGE CURRENT SEE 8.7.3.b) and 8.7.4.7

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.

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 & disinfection, & sterilization).

ER - Earth leakage current

TC - Touch current

MD - Measuring device

A - After humidity conditioning

B - Before humidity conditioning

1 - Switch closed or set to normal polarity

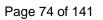
0 - Switch open or set to reversed polarity

NC - Normal condition SFC - Single fault condition

8.8.3	TABLE: Dielectric strength test of solid insulating materials with safety function – MEANS OF OPERATOR PROTECTION (MOOP) / MEANS OF PATIENT PROTECTION (MOPP)						
la sulstisa	4 4	In a solution Toma	Reference Voltage		A O 4554	Dielectric	
Insulation under test (area from insulation diagram)		Insulation Type (1 or 2 MOOP/MOPP)	PEAK WORKING VOLTAGE (U) V peak	PEAK WORKING VOLTAGE (U) V d.c.	A.C. test voltages in V r.m.s ¹	breakdown after 1 minute Yes/No ²	
Α		1MOOP	340		1500	No breakdown	
В		2MOPP	340		4000	No breakdown	
С		2MOPP	340		4000	No breakdown	
F		2MOPP	340		4000	No breakdown	

¹ Alternatively, per the Table (i.e., __dc), a d.c. test voltage equal to the peak value of the a.c. test voltage used.

² 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).





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Clause	Requirement + Test	Re	Result - Remark Verdi			
8.8.4.1	TABLE: Resistance to heat - Ball pressure test	of t	hermoplastic parts		Р	
	Allowed impression diameter (mm):	≤ 2	2 mm	_		
	Force (N):	20)		_	
Part/mate	•		ression eter (mm)			
Enclosure	3		125		1.32	
Bobbin of	transformer		125		1.05	
Supplem	entary information: Approved materials are used. Refer	to lis	st of safety critical com	ponents.		

8.8.4.1	RM RESULTS TABLE: Mechanical strength and resistance to heat				N/A
8.9.2	AIR CLEARANCES for insu	lation in the MAIN	ne of the CREEPAGE DISTANCES of SPART between parts of opposuired measurements in 8.9.4		N/A
	areas of circuits short- ed and test conditions	Test in lieu of CREEPAGE DISTANCE OF AIR CLEARANCE ¹	HAZARDOUS SITUATION observed (i.e., fire hazard, shock hazard, explosion, discharge of parts, etc.)? Yes/No	Re	emarks



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Clause	Requirement + Test	Result - Remark	Verdict

8.9.3.2	Table: Thermal cycling tests on a solid insulation between conduction		mpound forming	N/A
Test Sequence No.	Each test duration and temperature	Dielectric test voltage (V = Test voltage in 8.8.3 times 1.6)	Dielectric strength test afte humidity preconditioning pe cl. 5.7 except for 48 h only, Breakdown: Yes/No	
	68 h at T1 ± 2 °C =°C 1			
1	1 h at 25 °C ± 2 °C			
'	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			
	68 h at T1 ± 2 °C =°C 1			
2	1 h at 25 °C ± 2 °C			
2	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			
	68 h at T1 ± 2 °C =°C ¹			
	1 h at 25 °C ± 2 °C			
3	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			
	68 h at T1 ± 2 °C =°C 1			
4	1 h at 25 °C ± 2 °C			
4	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			

 $^{^1}$ 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.



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Clause	Requirement + Test	Result - Remark	Verdict		

8.9.3.4	Table: Thermal cycling tests on o	ne sample of cemented join	t (see 8.9.3.3)	N/A
Test Sequence No.	Each test duration and temperature	Dielectric test voltage (V = Test voltage in 8.8.3 times 1.6)	Dielectric strengt humidity precond cl. 5.7 except for Breakdown:	itioning per 48 h only,
	68 h at T1 ± 2 °C =°C ¹			
1	1 h at 25 °C ± 2 °C			
	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			
	68 h at T1 ± 2 °C =°C ¹			
	1 h at 25 °C ± 2 °C			
2	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			
	68 h at T1 ± 2 °C =°C1			
	1 h at 25 °C ± 2 °C			
3	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			
	68 h at T1 ± 2 °C =°C1			
	1 h at 25 °C ± 2 °C			
4	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			

¹ 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.



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Clause	Requirement + Test		Result - Remark	Verdict	

8.10 T	ABLE: List of critication	al components			
Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity ¹⁾
Adaptor	SABIC	SE1X,	PPE+PS, Min.	IEC 6060-1	Tested with
Enclosure	INNOVATIVE	SE1	V-1, Min.	UL 94	appliance
	PLASTICS B V		thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm, 105°C		
Alt. use	SABIC	SE100	PPE+PS, Min.	IEC 6060-1	Tested with
	INNOVATIVE		V-1, Min.	UL 94	appliance
	PLASTICS B V		thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm, 95°C		
Alt. use	SABIC	C2950	PC/ABS, Min.	IEC 6060-1	Tested with
	INNOVATIVE		V-0, Min.	UL 94	appliance
	PLASTICS B V		thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm, 85°C		
Alt. use	SABIC	CX7211,	PC/ABS, Min.	IEC 6060-1	Tested with
	INNOVATIVE	EXCY0098	V-1, Min.	UL 94	appliance
	PLASTICS B V		thickness:	UL 746 A/B/C/D	UL E45329
	0.1710		1.5mm, 90°C	170 0000 1	
Alt. use	SABIC	945	PC, Min. V-1,	IEC 6060-1	Tested with
	INNOVATIVE		Min. thickness:		appliance
	PLASTICS B V		1.5mm, 120°C	UL 746 A/B/C/D	UL E45329
Alt. use	SABIC	HF500R	PC, V-0, Min.	IEC 6060-1	Tested with
	INNOVATIVE		thickness:	UL 94	appliance
A14	PLASTICS B V	OE4V	1.5mm, 125°C	UL 746 A/B/C/D	UL E45329
Alt. use	SABIC JAPAN L	SE1X, SE1	PPE+PS, Min.	IEC 6060-1	Tested with
	LC	SET	V-1, Min. thickness:	UL 94 UL 746 A/B/C/D	appliance UL E207780
				UL 740 A/B/C/D	UL E20//80
Alt. use	SABIC JAPAN L	SE100	1.5mm, 105°C PPE+PS, Min.	IEC 6060-1	Tested with
Ait. use	L C	3E100	V-1, Min.	UL 94	appliance
	10		thickness:		UL E207780
			1.5mm, 95°C	OL 140 A/B/C/D	OL E201180
Alt. use	SABIC JAPAN L	C2950	PC/ABS, Min.	IEC 6060-1	Tested with
Ait. use	L C	G2330	V-0, Min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E207780
			1.5mm, 85°C	OL 140 AIBIOID	OL LZ01100
Alt. use	SABIC JAPAN L	CX7211,	PC/ABS, Min.	IEC 6060-1	Tested with
400	L C	EXCY0098	V-1, Min.	UL 94	appliance
	_ •		thickness:	UL 746 A/B/C/D	UL E207780
			1.5mm, 90°C		
Alt. use	SABIC JAPAN L	940.	PC, Min. V-1,	IEC 6060-1	Tested with
	L C	945	Min. thickness:		appliance
			1.5mm, 120°C	UL 746 A/B/C/D	UL E207780
Alt. use	SABIC JAPAN L	HF500R	PC, V-0, Min.	IEC 6060-1	Tested with



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	L C		thickness:	UL 94	appliance
			1.5mm, 125°C	UL 746 A/B/C/D	UL E207780
Alt. use	TEIJIN	LN-1250P,	PC, Min. V-0,	IEC 6060-1	Tested with
	CHEMICALS	LN-1250G	Min. thickness:	UL 94	appliance
	LTD		1.5mm, 115°C	UL 746 A/B/C/D	UL E50075
Alt. use	CHI MEI	PA-765A	ABS, Min. V-0,	IEC 6060-1	Tested with
	CORPORATION		Min. thickness:	UL 94	appliance
			1.5mm, 85°C	UL 746 A/B/C/D	UL E56070
Alt. use	CHI MEI	PC-540	PC/ABS, Min.	IEC 6060-1	Tested with
	CORPORATION		V-0, Min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E56070
			2.0mm, 70°C		
Alt. use	SABIC Japan L	925U,	PC, V-0, Min.	IEC 6060-1	Tested with
	LC	CH6410	thickness:	UL 94	appliance
			1.5mm, 115°C	UL 746 A/B/C/D	UL E207780
Alt. use	ASAHI KASEI	540V	Min. V-1, Min.	IEC 6060-1	Tested with
	CORPORATION		thickness:	UL 94	appliance
			1.5mm, 100°C	UL 746 A/B/C/D	UL E82268
Alt. use	COVESTRO	FR6005,	Min. V-0, Min.	IEC 6060-1	Tested with
	DEUTSCHLAND	6485	thickness:	UL 94	appliance
	AG(PC RESINS)		1.5mm, 100°C	UL 746 A/B/C/D	UL E41613
Alt. use	IDEMITUS	AZ2201	Min. V-0, Min.	IEC 6060-1	Tested with
	KOSAN CO LTD		thickness:	UL 94	appliance
			1.5mm, 100°C	UL 746 A/B/C/D	UL E48268
Alt. use	SABIC Japan L	N1250	PPE+PS, V-0,	IEC 6060-1	Tested with
	L C	141230	105°C. min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm		
Alt. use	Covestro	FR6005	PC, V-0, 105°C.	IEC 6060-1	Tested with
	Deutschland	110000	min.	UL 94	appliance
	AG.		thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm		
Alt. use	Asahi Kasei	540Z	PPE+PS, V-0;	IEC 6060-1	Tested with
	Asam Nasci	U-102	105°C;	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E45329
			min. 1.5mm		
Alt. use	LG Chemical	EF-1006F(m)	PC, V-0,115°C.	IEC 6060-1	Tested with
	LG CHEIIICAI	LI -1000F(III)	min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm		
Alt. use	SABIC Japan L	925(GG),	PC, V-0, 115°C,	IEC 6060-1	Tested with
	L C		minimum 1.5	UL 94	appliance
		945(GG)	mm thickness.	UL 746 A/B/C/D	UL E45329
Plug holder	SABIC	SE1X,	PPE+PS, Min.	IEC 6060-1	Tested with
i lug lioluel	INNOVATIVE	SE1X,	V-1, Min.	UL 94	appliance
	PLASTICS B V		thickness:	UL 746 A/B/C/D	UL E45329
	LASIIOS B V		1.5mm, 105°C	OL 170 AIBIOID	OL L73323
			1.5111111, 105		



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Alt. use	SABIC	SE100	PPE+PS, Min.	IEC 6060-1	Tested with
7 0.00	INNOVATIVE	02.00	V-1, Min.	UL 94	appliance
	PLASTICS B V		thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm, 95°C		
Alt. use	SABIC	C2950	PC/ABS, Min.	IEC 6060-1	Tested with
	INNOVATIVE		V-0, Min.	UL 94	appliance
	PLASTICS B V		thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm, 85°C		
Alt. use	SABIC	CX7211,	PC/ABS, Min.	IEC 6060-1	Tested with
	INNOVATIVE	EXCY0098	V-1, Min.	UL 94	appliance
	PLASTICS B V		thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm, 90°C		
Alt. use	SABIC	945	PC, Min. V-1,	IEC 6060-1	Tested with
	INNOVATIVE		Min. thickness:	UL 94	appliance
	PLASTICS B V		1.5mm, 120°C	UL 746 A/B/C/D	UL E45329
Alt. use	SABIC	HF500R	PC, V-0, Min.	IEC 6060-1	Tested with
	INNOVATIVE		thickness:	UL 94	appliance
	PLASTICS B V		1.5mm, 125°C	UL 746 A/B/C/D	UL E45329
Alt. use	SABIC JAPAN L	SE1X,	PPE+PS, Min.	IEC 6060-1	Tested with
	LC	SE1	V-1, Min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E207780
			1.5mm, 105°C		
Alt. use	SABIC JAPAN L	SE100	PPE+PS, Min.	IEC 6060-1	Tested with
	LC		V-1, Min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E207780
			1.5mm, 95°C		
Alt. use	SABIC JAPAN L	C2950	PC/ABS, Min.	IEC 6060-1	Tested with
	LC		V-0, Min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E207780
			1.5mm, 85°C		
Alt. use	SABIC JAPAN L	CX7211,	PC/ABS, Min.	IEC 6060-1	Tested with
	LC	EXCY0098	V-1, Min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E207780
			1.5mm, 90°C		
Alt. use	SABIC JAPAN L	940,	PC, Min. V-1,	IEC 6060-1	Tested with
	L C	945	Min. thickness:		appliance
Alt	0400 :454::	LIFEOOD	1.5mm, 120°C	UL 746 A/B/C/D	UL E207780
Alt. use	SABIC JAPAN L	HF500R	PC, V-0, Min.	IEC 6060-1	Tested with
	LC		thickness:	UL 94	appliance
A Id	TELUNI	LN 40505	1.5mm, 125°C	UL 746 A/B/C/D	UL E207780
Alt. use	TEIJIN	LN-1250P,	PC, Min. V-0,	IEC 6060-1	Tested with
	CHEMICALS	LN-1250G	Min. thickness:		appliance
A 14	LTD	D. T. T.	1.5mm, 115°C	UL 746 A/B/C/D	UL E50075
Alt. use	CHI MEI	PA-765A	ABS, Min. V-0,	IEC 6060-1	Tested with
	CORPORATION		Min. thickness:		appliance
A 14	0111	DO 546	1.5mm, 85°C	UL 746 A/B/C/D	UL E56070
Alt. use	CHI MEI	PC-540	PC/ABS, Min.	IEC 6060-1	Tested with



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	CORPORATION		V-0, Min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E56070
			2.0mm, 70°C		
Alt. use	SABIC Japan L	925U,	PC, V-0, 115°C,	IEC 6060-1	Tested with
	L C	CH6410	min. thickness:		appliance
			1.5mm	UL 746 A/B/C/D	UL E207780
Alt. use	ASAHI KASEI	540V	Min. V-1, Min.	IEC 6060-1	Tested with
	CORPORATION		thickness:	UL 94	appliance
			1.5mm, 100°C	UL 746 A/B/C/D	UL E82268
Alt. use	COVESTRO	FR6005,	Min. V-0, Min.	IEC 6060-1	Tested with
	DEUTSCHLAND	6485	thickness:	UL 94	appliance
	AG (PC RESINS)		1.5mm, 100°C	UL 746 A/B/C/D	UL E41613
Alt. use	IDEMITUS	AZ2201	Min. V-0, Min.	IEC 6060-1	Tested with
	KOSAN CO LTD		thickness:	UL 94	appliance
			1.5mm, 100°C	UL 746 A/B/C/D	UL E48268
Alt. use	SABIC Japan L	N1250	PPE+PS, V-0,	IEC 6060-1	Tested with
	LC		105°C. min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm		
Alt. use	Covestro	FR6005	PC, V-0, 105°C.	IEC 6060-1	Tested with
	Deutschland		min.	UL 94	appliance
	AG.		thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm		
Alt. use	Asahi Kasei	540Z	PPE+PS, V-0;	IEC 6060-1	Tested with
			105°C; min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm		
Alt. use	LG Chemical	EF-1006F(m)	PC, V-0,115°C.	IEC 6060-1	Tested with
			min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm		
Alt. use	SABIC Japan L	925(GG),	PC, V-0, 115°C,	IEC 6060-1	Tested with
	LC	945(GG)	min.	UL 94	appliance
			thickness:	UL 746 A/B/C/D	UL E45329
			1.5mm		
PCB	Shenzhen	WZ-4	V-0, 130°C	IEC 60601-1	Tested with
	Wuzhu Tech Co			UL94	appliance
	Ltd			UL 796	UL E170968
Alt. use	WALEX	T2,	Min. 1,6 mm	IEC 60601-1	Tested within
	ELECTRONIC	T2A,	thickness, min.		appliance
	(WUXI) CO LTD	T2B,	V-0, 130°C	UL 796	UL E154355
		T4			
Alt. use	DONGGUAN HE	CEM1,	Min. 1,6 mm	IEC 60601-1	Tested within
	TONG	2V0,	thickness, min.		appliance
	ELECTRONICS	FR4	V-0, 130°C	UL 796	UL E243157
	CO LTD				





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	1		11/2 /222	1=0 00001 1	
Alt. use	Huizhou	SJ-B	V-0, 130°C	IEC 60601-1	Tested with
	Shunjia			UL94	appliance
	Electronics Co			UL 796	UL E320884
	Ltd				
Alt. use	Cheerful	02,	V-0,130°C	IEC 60601-1	Tested with
	Electronics (HK)	03,		UL94	appliance
	Ltd	03A		UL 796	UL E199724
Alt. use	Dongguan	DS2	V-0,130°C	IEC 60601-1	Tested with
	Daysun			UL94	appliance
	Electronic Co			UL 796	UL E251754
	Ltd				
Alt. use	Suzhou City	YLH-1	V-0,130°C	IEC 60601-1	Tested with
	Yilihua			UL94	appliance
	Electronics Co			UL 796	UL E251781
	Ltd				
Alt. use	SHANGHAI	02V0,	V-0,130°C	IEC 60601-1	Tested with
	AREX	03V0,		UL94	appliance
	PRECISION	04V0		UL 796	UL E186016
	ELECTRONIC				
	CO LTD				
Alt. use	BRITE PLUS	DKV0-3A,	V-0,130°C	IEC 60601-1	Tested with
	ELECTRONICS(DGV0-3A	', ' '	UL94	appliance
	SUZHOU)CO			UL 796	UL E177671
	LTD				
Alt. use	KUOTIANG ENT	C-2,	V-0,130°C	IEC 60601-1	Tested with
	LTD	C-2A		UL94	appliance
				UL 796	UL E227299
Alt. use	SHENZHEN	TCX	V-0,130°C	IEC 60601-1	Tested with
	TONGCHUANXI		', ' '	UL94	appliance
	N			UL 796	UL E250336
	ELECTRONICS				
	CO LTD				
Alt. use	PACIFIC WIN	PW-02,	V-0,130°C	IEC 60601-1	Tested with
	INDUSTRIAL	PW-03	3,133	UL94	appliance
	LTD			UL 796	UL E228070
Alt. use	YUANMAN	1V0	V-0,130°C	IEC 60601-1	Tested with
	PRINTED		1 0,100 0	UL94	appliance
	CIRCUIT CO			UL 796	UL E74757
	LTD			32.33	0==:-
Alt. use	SUZHOU XINKE	XK-2,	V-0,130°C	IEC 60601-1	Tested with
AIL USC	ELECTRONICS	XK-2, XK-3	V-0,130 C	UL94	appliance
	CO LTD	AIX-U		UL 796	UL E231590
Alt. use	KUNSHAN CITY	HS-S	V-0,130°C	IEC 60601-1	Tested with
AIL. USE	HUA SHENG	113-3	v-0,130°C	UL94	appliance
	CIRCUIT			UL 796	UL E229877
	BOARD CO LTD			OF 130	UL E223011
A14		DFD-1	V 0 4222	IEC 60004 4	Tootod with
Alt. use	JIANGSU	ו-טרט-ו	V-0,130°C	IEC 60601-1	Tested with





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	DIFEIDA			UL94	appliance
	ELECTRONICS CO LTD			UL 796	UL E213009
Alt. use	SHANGHAI H- FAST ELECTRONIC CO LTD	211001, 411001	V-0,130°C	IEC 60601-1 UL94 UL 796	Tested with appliance UL E337862
Alt. use	JINSHIJIE	JSJ-1, JSJ-3	V-0, 130°C	IEC 60601-1 UL94 UL 796	UL E503720 Tested with appliance
Alt. use	Wing Shing Electronics Co,.Ltd.	YS-1B, YS-2A, YS-2C, YS-3	V-0, 130°C	IEC 60601-1 UL94 UL 796	UL E190407 Tested with appliance
Alt. use	Chian You Co.,Ltd	02V0-1, 03V0, 12V0	V-0, 130°C	IEC 60601-1 UL94 UL 796	UL E112804 Tested with appliance
Alt. use	GROW FAST	A2, A3, A4, A5	V-0, 130°C	IEC 60601-1 UL94 UL 796	UL E305467 Tested with appliance
Alt. use	Shye Feng Co.,Ltd	66V0, 99V0, 990V0	V-0, 130°C	IEC 60601-1 UL94 UL 796	UL E466059 Tested with appliance
Alt. use	Jia He Electronics Co.,Ltd	D1, D3, B, B1	V-0, 130°C	IEC 60601-1 UL94 UL 796	UL E187621 Tested with appliance
Current fuse (F1)	LITTELFUSE WICKMANN WERKE	392	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VED 126983 UL E67006
Alt. use	Conquer Electronics Co Ltd	MST	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40017118 UL E82636
Alt. use	Cooper Bussmann LLC	SS-5	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40015513 UL E19180
Alt. use	Bel Fuse Inc	RST	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40011144 UL E20624
Alt. use	Chi Lick Schurter Limited	SPT	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1	VDE 40014285 UL E238986





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				UL 248-14	
Alt. use	Conquer Electronics Co Ltd	PTU	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40001462 UL E82636
Alt. use	Littelfuse Inc	877	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40023242 UL E10480
Alt. use	Walter Electronic Co. Ltd	2010	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40018781 UL E220181
Alt. use	Nippon Seisen Cable Ltd	SLT series	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40013103 UL E120786
Alt. use	Walter Electronic Co Ltd	ICP	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40012824 UL E56092
Alt. use	XC Electronics	5TE series	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40029550 UL E156471
Alt. use	XC Electronics	4T series	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40029295 UL E249609
Alt. use	Shenzhen Lanson Electronics Co. Ltd.	SMT	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40012592 UL E221465
Alt. use	SMART ELECTRONICS INC	SPT	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40014285 UL E238986
Alt. use	SUNNY EAST ENTERPRISE CO LTD	TSP SERIES	T2A, 250V	IEC/EN 60127-1 IEC/EN 60127-3 UL 248-1 UL 248-14	VDE 40027173 UL E133774
Y capacitor (CY1, CY2) (optional)	TDK-EPC Corporation, Capacitors Group Circuit Devices Business Group	CD	Min.250V Min.125°C Max.2200pF Y1	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40029780 UL E37861



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

			1		1
Alt. use	Success	SE	Min.250V	IEC/EN 60384-	VDE 40037211
	Electronics Co.,		Min.125°C	14	VDE 40020002
	Ltd.		Max.2200pF	UL 60384-14	UL E114280
			Y1	UL 1414	
Alt. use	Success	SB	Min.250V	IEC/EN 60384-	VDE 40037221
	Electronics Co.,		Min.125°C	14	VDE 40020001
	Ltd.		Max.2200pF	UL 60384-14	UL E114280
			Y1	UL 1414	
Alt. use	Walsin	AH	Min.250V	IEC/EN 60384-	VDE 40001804
	Technology		Min.125°C	14	UL E146544
	Corp.		Max.2200pF	UL 60384-14	
			Y1	UL 1414	
Alt. use	Haohua	CT 7	Min.250V	IEC/EN 60384-	VDE 40003902
	Electronic		Min.125°C	14	UL E233106
	Co.,Ltd.		Max.2200pF	UL 60384-14	
	,		Y1	UL 1414	
Alt. use	Xiangtai	YO-series	Min.250V	IEC/EN 60384-	VDE 40036880
71111 400	Electronic	10 001100	Min.125°C	14	UL E319473
	(Shenzhen)		Max.2200pF	UL 60384-14	OL 2313473
	Co., Ltd.		Y1	UL 1414	
Alt. use	JUHONG	JB- series	Min.250V	IEC/EN 60384-	VDE 40035339
Ait. use	ELECTRONICS	JD- Series	Min.125°C	14	UL E253194
	LTD			UL 60384-14	UL E253194
	LID		Max.2200pF		
A 14	14 (14 (0	167	Y1	UL 1414	\/DE 4000004
Alt. use	Murata Mfg. Co.,	KX	Min.250V	IEC/EN 60384-	VDE 40002831
	Ltd.		Min.125°C	14	UL E37921
			Max.2200pF	UL 60384-14	
			Y1	UL 1414	
Alt. use	JYA-NAY Co.,	JN	Min.250V	IEC/EN 60384-	VDE 40001831
	Ltd.		Min.125°C	14	UL E201384
			Max.2200pF	UL 60384-14	
			Y1	UL 1414	
Alt. use	Jyh Chung	JD	Min.250V	IEC/EN 60384-	VDE 137027
	Electronic Co.,		Min.125°C	14	UL E187963
	Ltd.		Max.2200pF	UL 60384-14	
			Y1	UL 1414	
Alt. use	WELSON	WD	Min.250V	IEC/EN 60384-	VDE 40016157
	INDUSTRIAL		Min.125°C	14	
	CO LT D		Max.2200pF		
			Y1		
Alt. use	Samwha	SD	Min.250V	IEC/EN 60384-	VDE 40015804
	Capacitor Co.,		Min.125°C	14	UL E97754
	Ltd.		Max.2200pF	UL 60384-14	32 207707
			Y1	UL 1414	
Alt. use	Yinan Don's	CT81	Min.250V	IEC/EN 60384-	VDE 135256
AIL USE	Electronic	0101	Min.125°C	14	UL E145038
					UL E143038
<u></u>	Component Co.,		Max.2200pF	UL 60384-14	



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Clause	Requirement + Test	Result - Remark	Verdict	

	Ltd		Y1	UL 1414	
Alt. use	Jyh Hsu (Jec)	JY	Min.250V	IEC/EN 60384-	VDE 137027
	Electronics Ltd		Min.125°C	14	UL E187963
			Max.2200pF	UL 60384-14	
			Y2	UL 1414	
Alt. use	Easy-gather	DCF	Min.250V	IEC/EN 60384-	VDE 40022942
			Min.125oC	14	UL E252221
			Max.2200pF,	UL 60384-14	
			· -	UL 1414	
A14	South China	CY	Y1 type. Min.250V	IFO/FN COOR	VDE40045823
Alt. use		CT		IEC/EN 60384-	
	Electronic		Min.125oC	14	UL E492769
	Co.,Ltd.		Max.2200pF,	UL 60384-14	
			Y1 type.	UL 1414	
Alt. use	WINDAY	CD series	Min.250V	IEC/EN 60384-	VDE40050259
	Electronic		Min.125oC	14	UL E302125
			Max.2200pF,	UL 60384-14	
			Y1 type.	UL 1414	
Varistor	Centra Science	CNR10D431-	Min. 300Vac,	IEC/EN 61051-1,	VDE 127002
(MOV1)	Corp	561K,	min. 385Vdc,	IEC/EN 61051-1,	
(Optional)	Согр	CNR14D431-561K	-	IEC/EN 61051-2,	OL E310323
(Optional)		CNK 14D431-301K	6kV/3kA pulse	2nd Annex Q	
			test.	Ziiu Aililex Q	
Alt. use	Uppermost	V10K300,	Min. 300Vac,	IEC/EN 61051-1,	VDE 010108
Ait. use	Electronic	V10K300, V10K320,	min. 385Vdc,	IEC/EN 61051-2,	VDE 010100
	Industries Co	V10K320,	fulfilled	IEC/EN 60950-1	
	Ltd	V10K385,	6kV/3kA pulse	2nd Annex Q	
	2.0	V14K300,	test.	Ziid / lilliox Q	
		V14K320,	10011		
		V14K350,			
		V14K385			
Alt. use	Jya-Nay Co Ltd	10D431-561K,	Min. 300Vac,	IEC/EN 61051-1,	VDE 40023949
7 0.00		14D431-4561K	min. 385Vdc,	IEC/EN 61051-2,	
			fulfilled	IEC/EN 60950-1	
			6kV/3kA pulse	2nd Annex Q	
			test.		
Alt. use	Joyin Co Ltd	JVR10N431-	Min. 300Vac,	IEC/EN 61051-1,	VDE 005937
	30, 30 = 10	561K,	min. 385Vdc,	IEC/EN 61051-2,	
		JVR14N431-	fulfilled	IEC/EN 60950-1	
		561K,	6kV/3kA pulse	2nd Annex Q	
			test.		
Alt. use	Panasonic	10DK431-561U,	Min. 300Vac,	IEC/EN 61051-1,	VDE 005912
	Corporation	14DK431-561U	min. 385Vdc,	IEC/EN 61051-2,	
	20. P 2. W. W.		fulfilled	IEC/EN 60950-1	
			6kV/3kA pulse	2nd Annex Q	
			test.		
Alt. use	Thinking	TVR10431-561,	Min. 300Vac,	IEC/EN 61051-1,	VDE 005044



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	Electronic	TVR14431-561	min. 385Vdc,	IEC/EN 61051-2,	
	Industrial Co		fulfilled	IEC/EN 60950-1	
	Ltd		6kV/3kA pulse test.	2nd Annex Q	
Alt. use	Guangdong Fenghua Advanced Technology Holding Co Ltd. Xianhua New Sensitive Components Branch	FNR-10K431-561, FNR-14K431-561	Min. 300Vac, min. 385Vdc, fulfilled 6kV/3kA pulse test.	IEC/EN 61051-1, IEC/EN 61051-2, IEC/EN 60950-1 2nd Annex Q	
Alt. use	Brightking (Shenzhen)Co Ltd	10D431-561K, 14D431-561K	Min. 300Vac, min. 385Vdc, fulfilled 6kV/3kA pulse test.	IEC/EN 61051-1, IEC/EN 61051-2, IEC/EN 60950-1 2nd Annex Q	
Alt. use	Littelfuse Inc	V300-V385LA10P, V300- V385LA20AP, V10E300P-385P, V14E300P-385P	Min. 300Vac, min. 385Vdc, fulfilled 6kV/3kA pulse test.	IEC/EN 61051-1, IEC/EN 61051-2, IEC/EN 60950-1 2nd Annex Q	
Alt. use	Guangxi New Future Information Industry Co Ltd	10D431-561K, 14D431-561K	Min. 300Vac, min. 385Vdc, fulfilled 6kV/3kA pulse test.	IEC/EN 61051-1, IEC/EN 61051-2, IEC/EN 60950-1 2nd Annex Q	VDE 40030322
Alt. use	Walsin Technology Corp	VZ10D456K, VZ14D456K	Min.300Vac, Min.385Vdc	IEC/EN 61051-1, IEC/EN 61051-2, IEC/EN 60950-1 2nd Annex Q	VDE 005932
Alt. use	Success Electronics Co Ltd	SVR10D431K~56 1K, SVR14D431K~56 1K	min. 385Vdc, fulfilled 6kV/3kA pulse test.	IEC/EN 61051-1, IEC/EN 61051-2, IEC/EN 60950-1 2nd Annex Q	
Alt. use	Shantou Hongzhi Electronics Ltd	10D471K	Min310Vac, Min510Vdc	IEC/EN 61051-1, IEC/EN 61051-2, IEC/EN 60950-1 2nd Annex Q	VDE 40037512
Alt. use	BestBright Electronics Co.,Ltd.	10D471K	Min300Vac, Min470Vdc	IEC/EN 61051-1, IEC/EN 61051-2, IEC/EN 60950-1 2nd Annex Q	VDE 40027827
Alt. use	CeNtRa Science(Holdin	10D471K	Min300Vac, Min470Vdc	IEC/EN 61051-1, IEC/EN 61051-2,	VDE 40008220



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	gs)Ltd			IEC/EN 60950-1	
				2nd Annex Q	
Alt. use	Huizhou Songlong Xindian Electronic Technology Co.,LTD	10D471K	Min300Vac, Min470Vdc	IEC/EN 61051-1, IEC/EN 61051-2, IEC/EN 60950-1 2nd Annex Q	VDE 40040037
Alt. use	XiAn Xiwuer	MYG3-10K300, MYG3-14K300	Min.300Vac, Min.385Vdc	IEC/EN 61051-1, IEC/EN 61051-2, IEC/EN 60950-1 2nd Annex Q	VDE 40008528
Transformer (T1)	GlobTek / Dee Van Enterprise Co., Ltd. / BOAM/ HAOPUWEI	90E121506-XXXX for(5.95-7.49Vdc), 90E121507-XXXX for(7.5-11.99Vdc), 90E121512-XXXX for (12-16Vdc), 90E121524-XXXX for (16.01-24Vdc) ("xxxx" to denote the part number, can be any alphanumeric character for marketing purposes only.)	Class B	IEC/EN 60601-1 IEC/EN 60950-1 IEC/EN 60085	Tested with appliance
-Insulation system	GlobTek	GTX-130-TM	Class B	IEC/EN 60601-1	UL E243347
Alt. use	Haopuwei	ZT-130	Class B	IEC/EN 60601-1	UL E315275
Alt. use	BOAM	BOAM-01, B01	Class B	IEC/EN 60601-1	UL E252329
Alt. use	ENG	ENG130-1	Class B	IEC/EN 60601-1	UL E308897
Alt. use	Dee Van	YCI-130	Class B	IEC/EN 60601-1	UL E159480
- Bobbin	Sumitomo Bakelite Co Ltd	PM-9820, PM-9630, PM-9823	Phenolic, V-0, 150 °C, min. 0.71 mm thickness	IEC 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E41429
Alt. use	Chang Chun Plastics Co Ltd	T375J, T373J, T375HF, T200HF	Phenolic, V-0, 150 °C, min. 0.71 mm thickness	IEC 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E59481
Alt. use	Hitachi Chemical Co Ltd	CP-J-8800	Phenolic, V-0, 150°C, Min. thickness 0.71mm	IEC 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E42956



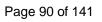
IEC 60601-1				
Clause	Requirement + Test	Result - Remark	Verdict	

- Magnet	TAI-I ELECTRIC	UEW	130°C	IEC 60601-1	Tested with
wire	WIRE & CABLE			UL1446	appliance
	CO LTD				UL E85640
Alt. use	HUIZHOU	UEW-X	130°C	IEC 60601-1	Tested with
	GOLDEN			UL1446	appliance
	OCEAN				UL E225143
	MAGNET WIRE				
	FACTORY				
Alt. use	SHENZHEN	UEW	130°C	IEC 60601-1	Tested with
71111 400	DAYANG	02	100 0	UL1446	appliance
	INDUSTRY CO			021440	UL E176101
	LTD				02 217 0101
Alt. use	WA TAI	UEW	130°C	IEC 60601-1	Tested with
Ait. usc	ELECTROTECHI	0211	130 0	UL1446	appliance
	NCAL			021440	UL E243939
	MATERIALS				OL L243939
	FACTORY LTD				
Alt. use	FENG CHING	UEW	130°C	IEC 60601-1	Tested with
Ait. use	MEATL CORP	OEW	130 C	UL1446	appliance
	WIEATE CORP			OL1440	UL E172395
Alt. use	Pacific Electric	DD-NYU	130°C	IEC 60601-1	Tested with
Ait. use	Wire & Cable Co	ט ז אי-טט	130 C	UL1446	appliance
	Ltd			UL 1446	UL E84081
Alt. use		XUEW-ULx	130°C	IEC 60601-1	Tested with
Ait. use	Heshan Jiangci Wire & Cable Co	XUEW-ULX	130°C	UL1446	
				UL1446	appliance
A14	Ltd	OLIEW.	40000	150 00004 4	UL E192838
Alt. use	Shen Zhen City	2UEW	130°C	IEC 60601-1	Tested with
	Chengwei			UL1446	appliance
A 14	Industry Co Ltd	11514	40000	150 00004 4	UL E227475
Alt. use	Golden Ocean	UEW	130°C	IEC 60601-1	Tested with
				UL1446	appliance
			_		UL E225143
Alt. use	Dayang	UEW	130°C	IEC 60601-1	Tested with
				UL1446	appliance
					UL E176101
Alt. use	Chang Cheng	UEW	130°C	IEC 60601-1	Tested with
	Goldstar			UL1446	appliance
					UL E237312
Alt. use	Interchangeable	Interchangeable	130°C	IEC 60601-1	UL approved
				UL1446	
-Triple	Furukawa	TEX-E,	Class B	IEC/EN 60601-1	VDE 006735
insulate wire	Electric Co Ltd	TEX-BS		UL 2353	UL E206440
Alt. use	Cosmolink Co	TIW-M	Class B	IEC/EN 60601-1	VDE 138053
	Ltd			UL 2353	UL E213764
Alt. use	Young Chang	STW-B	Class B	IEC/EN 60601-1	VDE 40013359
, a.c.	roung Chang	· · · · ·			
7 400	Silicone Co Ltd			UL 2353	UL E303298



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	Industrial Co Ltd			UL 2353	UL E211989
Alt. use	E&B Technology Co Ltd	E&B-B-X.XX	Class B	IEC/EN 60601-1 UL 2353	VDE 40023473 UL E315265
Alt. use	Dah Jin Technology Co Ltd	TLW-B	Class B	IEC/EN 60601-1 UL 2353	VDE 40019324 UL E236542
Alt. use	SUZHOU Yusheng Electric Co., Ltd.	TIW-B, TWE-3	Class B	IEC/EN 60601-1 UL 2353	VDE 40033527 UL E332529
Alt. use	Dongguan Koshen Insulator Co.,Ltd.	TIW-B	Class B	IEC/EN 60601-1 UL 2353	UL E365580
Alt. use	Golden Ocean	XYW-B	Class B	IEC/EN 60950-1 UL 2353	VDE 40017563 UL E251775
- Insulation tape	3M Company Electrical Markets Div (Emd)	1350F-1, 1350T-1, 1350F-2, 44	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E17385
Alt. use	Symbio Inc	35660, 35661, 35660Y	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E50292
Alt. use	Jingjiang Yahua Pressure Sensitive Glue Co Ltd	CT, PZ, WF	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E165111
Alt. use	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A(b)	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E246950
Alt. use	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX(a)(b)	Min.130°C	IEC/EN60601-1 UL 510	Tested with appliance UL E246820
-Tubing	GREAT HOLDING INDUSTRIAL CO LTD	TFT, TFS, TFL	Min. 300V, 200°C	IEC 60601-1	Tested with appliance UL E156256
Alt. use	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	WF	600V, 200°C	IEC 60601-1	Tested with appliance UL E203950





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Alt. use	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-T, CB-TT-S	Min. 300V, 200°C	IEC 60601-1	Tested with appliance UL E180908
Alt. use	LINGFREE	PTFE	Min. 300V, 200°C	IEC 60601-1	Tested with appliance UL E352366
Alt. use	Zeus	TFE-TW-300, TFE-SW-600	Min. 300V, 200°C	IEC 60601-1	Tested with appliance UL E64007

Supplementary information:
1) Indicates a mark which assures the agreed level of surveillance. See Licenses and Certificates of Conformity for verification.

.10.1 RM RESULTS TABLE: Fixing of components	N/A
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8.11.3.5	11.3.5 TABLE: Cord anchorages						
Cord under	test	Mass of equipment (kg)	Pull (N)	Torque Nm)	Ren	narks	
			-				
Supplementary information:							

8.11.3.6	TABLE: Cord guar	N/A					
Cord under	test	Test mass	Measured curvature	Remari	(S		
Supplemen	Supplementary information:						

9.2.1	RM RESULTS TABLE: HAZARDS associated with moving parts - General					
9.2.2.2	TABLE: Measurement of gap "a" according to Table 20 (ISO 13852: 1996)	N/A				
9.2.3.2	TABLE: Over-travel End Stop Test	N/A				
9.2.4	RM RESULTS TABLE: Emergency stopping devices	N/A				
9.2.5	RM RESULTS TABLE: Release of patient	N/A				





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9.4.2.1	TABLE: Instability—overbalance in transport posit	ion	N/A
9.4.2.2	TABLE: Instability—overbalance excluding transpo	ort position	N/A
9.4.2.3	TABLE: Instability—overbalance from horizontal a	nd vertical forces	N/A
9.4.2.4.2	TABLE: Castors and wheels – Force for propulsion	n	N/A
9.4.2.4.3	TABLE: Castors and wheels – Movement over a the	reshold	N/A
9.4.3.1	TABLE: Instability from unwanted lateral movement transport position	nt (including sliding) in	N/A
9.4.3.2	TABLE: Instability from unwanted lateral move excluding transport posit	`	N/A
9.4.4	TABLE: Grips and other handling devices		N/A
9.5.1	RM RESULTS TABLE: Protective means		N/A
9.6.1	RM RESULTS TABLE: Acoustic energy - Genera	I	N/A
9.6.2.2	RM RESULTS TABLE: Infrasound and ultrasoun	d energy	N/A
9.7.2	RM RESULTS TABLE: Pneumatic and hydraulic	parts	N/A
9.7.5	TABLE: Pressure vessels		N/A
9.7.7	RM RESULTS TABLE: Pressure-relief device		N/A
9.8.1	RM RESULTS TABLE: Hazards associated with s	support systems - General	N/A
9.8.2	RM RESULTS TABLE: Tensile safety factor		N/A
9.8.3.1	RM RESULTS TABLE: Strength of patient or open systems - General	erator support or suspension	N/A
9.8.3.2	TABLE: PATIENT support/suspension system - S	Static forces	N/A

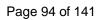


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Clause	Requirement + Test	Result - Remark	Verdict
9.8.3.3	TABLE: Support/Suspension System persons	em – Dynamic forces due to loading from	N/A
9.8.5	RM RESULTS TABLE: Systems wit	hout mechanical protective devices	N/A
10.1.1	TABLE: Measurement of X - radiation	n	N/A
10.1.2	RM RESULTS TABLE: ME equipme therapeutic X-radiation	ent intended to produce diagnostic or	N/A
10.2	RM RESULTS TABLE: Alpha, beta,	gamma, neutron & other particle radiation	N/A
10.5	RM RESULTS TABLE: Other visible	e electromagnetic radiation	N/A
10.6	RM RESULTS TABLE: RISK associated by lasers and LEDS	ciated with infrared radiation other than	N/A
10.7	RM RESULTS TABLE: RISK assoc emitted by lasers and LEDs	iated with ultraviolet radiation other than	N/A

11.1.1	TABLE: Excessive temperatures in ME EQUIPMENT							Р
Model No		:	1	2	3	3	4	
Test ambie	nt (°C)	:	40	40	4	0	40	
Test supply	y voltage/fi	requency (V/Hz) ⁴ :	264/60	264/60	264	/60	264/60	
Model No. Thermo-couple Id. No.		cation ³	Max allowable temperature ¹ from Max		Max measured temperature ² , (°C)		Remarks	
GTM86101-	-1205.95-W	/2						
1	1	External enclosure		71		,	70.8	Table 23 used, enclosure is likely to be touched for 1s to 10s.
1	2	PWB near Rectifier B (BD1)		130			66.9	See table 8.10
1	3	Choke (LF1) Coil		120			76.0	See table 8.10
1	4	C1		105			68.2	See table 8.10
1	5	C2		105		,	86.5	See table 8.10



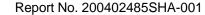
1			IEC 6	60601-1		
1	Clause	Requirem	ent + Test	Result - R	emark	Verdict
1 8 CY1 125 61.9 See table 8.10 1 9 C7 105 79.4 See table 8.10 1 10 Output Cord 71 46.7 Table 23 used enclosure is likely to be touched for 1: to 103. 1 11 Ambient 40 GTM86101-1212-W2	1	6	T1 winding	130	95.5	See table 8.10
1 9 C7 105 79.4 See table 8.10 1 10 Output Cord 71 46.7 Table 23 used enclosure is likely to be touched for 1s to 10s. 1 11 Ambient 40 Table 23 used enclosure is likely to be touched for 1s to 10s. 2 1 External enclosure 71 60.9 Table 23 used enclosure is likely to be touched for 1s to 10s. 2 2 PWB near Rectiffier Bridge (BD1) 130 65.1 See table 8.10 2 3 Choke (LF1) Coil 120 71.3 See table 8.10 2 4 C1 105 74.3 See table 8.10 2 5 C2 105 81.9 See table 8.10 2 6 T1 winding 130 95.1 See table 8.10 2 7 T1 core 91.9 See table 8.10 2 8 CY1 125 71.3 See table 8.10 2 9 C7 105 70.7 See table 8.10 2 9 C7 105 70.7 See table 8.10 2 10 Output Cord 71 50.7 Table 23 used enclosure is likely to be touched for 1s to 10s. 2 11 Ambient 40 GTM86101-1215-W2 3 1 External enclosure 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 2 PWB near Rectiffier Bridge (BD1) 130 65.4 See table 8.10 3 3 Choke (LF1) Coil 120 70.5 See table 8.10	1	7	T1 core		94.0	See table 8.10
1	1	8	CY1	125	61.9	See table 8.10
Benciosure is likely to be touched for it to 10s.	1	9	C7	105	79.4	See table 8.10
CTM86101-1212-W2 External enclosure 71	1	10	Output Cord	71	46.7	likely to be touched for 1s
2 1 External enclosure 71 60.9 Table 23 used enclosure is likely to be touched for 1: to 10s. 2 2 PWB near Rectifier Bridge (BD1) 130 65.1 See table 8.10 2 3 Choke (LF1) Coil 120 71.3 See table 8.10 2 4 C1 105 74.3 See table 8.10 2 5 C2 105 81.9 See table 8.10 2 6 T1 winding 130 95.1 See table 8.10 2 7 T1 core 91.9 See table 8.10 2 8 CY1 125 71.3 See table 8.10 2 9 C7 105 70.7 See table 8.10 2 10 Output Cord 71 50.7 Table 23 used enclosure is likely to be touched for 1: to 10s. 2 11 Ambient 40 GTM86101-1215-W2 Table 23 used enclosure is likely to be touched for 1: to 10s. is likely to be touched for 1: to 10s. 3 2 PWB near Rectifier Bridge (BD1) 130 65.4 See t	1	11	Ambient		40	
enclosure is likely to be touched for 1st to 10s.	GTM8610	1-1212-W2				
Carry Carr	2	1	External enclosure	71	60.9	likely to be touched for 1s
2 4 C1 105 74.3 See table 8.10 2 5 C2 105 81.9 See table 8.10 2 6 T1 winding 130 95.1 See table 8.10 2 7 T1 core 91.9 See table 8.10 2 8 CY1 125 71.3 See table 8.10 2 9 C7 105 70.7 See table 8.10 2 10 Output Cord 71 50.7 Table 23 used enclosure is likely to be touched for 1s to 10s. 2 11 Ambient 40 GTM86101-1215-W2 3 1 External enclosure 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 2 PWB near Rectifier Bridge (BD1) 130 65.4 See table 8.10 3 3 Choke (LF1) Coil 120 70.5 See table 8.10	2	2		130	65.1	See table 8.10
2 5 C2 105 81.9 See table 8.10 2 6 T1 winding 130 95.1 See table 8.10 2 7 T1 core 91.9 See table 8.10 2 8 CY1 125 71.3 See table 8.10 2 9 C7 105 70.7 See table 8.10 2 10 Output Cord 71 50.7 Table 23 used enclosure is likely to be touched for 1s to 10s. 2 11 Ambient 40 GTM86101-1215-W2 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 1 External enclosure 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 2 PWB near Rectifier Bridge (BD1) 130 65.4 See table 8.10 3 3 Choke (LF1) Coil 120 70.5 See table 8.10	2	3	Choke (LF1) Coil	120	71.3	See table 8.10
2 6 T1 winding 130 95.1 See table 8.10 2 7 T1 core 91.9 See table 8.10 2 8 CY1 125 71.3 See table 8.10 2 9 C7 105 70.7 See table 8.10 2 10 Output Cord 71 50.7 Table 23 used enclosure is likely to be touched for 1s to 10s. 2 11 Ambient 40 GTM86101-1215-W2 3 1 External enclosure 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 2 PWB near Rectifier Bridge (BD1) 130 65.4 See table 8.10 3 3 Choke (LF1) Coil 120 70.5 See table 8.10	2	4	C1	105	74.3	See table 8.10
2 7 T1 core 91.9 See table 8.10 2 8 CY1 125 71.3 See table 8.10 2 9 C7 105 70.7 See table 8.10 2 10 Output Cord 71 50.7 Table 23 used enclosure is likely to be touched for 1s to 10s. 2 11 Ambient 40 GTM86101-1215-W2 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 1 External enclosure 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 2 PWB near Rectifier Bridge (BD1) 130 65.4 See table 8.10 3 3 Choke (LF1) Coil 120 70.5 See table 8.10	2	5	C2	105	81.9	See table 8.10
2 8 CY1 125 71.3 See table 8.10 2 9 C7 105 70.7 See table 8.10 2 10 Output Cord 71 50.7 Table 23 used enclosure is likely to be touched for 1s to 10s. 2 11 Ambient 40 GTM86101-1215-W2 3 1 External enclosure 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 2 PWB near Rectifier Bridge (BD1) 130 65.4 See table 8.10 3 3 3 Choke (LF1) Coil 120 70.5 See table 8.10	2	6	T1 winding	130	95.1	See table 8.10
2 9 C7 105 70.7 See table 8.10 2 10 Output Cord 71 50.7 Table 23 used enclosure is likely to be touched for 1s to 10s. 2 11 Ambient 40 GTM86101-1215-W2 3 1 External enclosure 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 2 PWB near Rectifier Bridge (BD1) 130 65.4 See table 8.10 3 3 Choke (LF1) Coil 120 70.5 See table 8.10	2	7	T1 core		91.9	See table 8.10
2 10 Output Cord 71 50.7 Table 23 used enclosure is likely to be touched for 1s to 10s. 2 11 Ambient 40 GTM86101-1215-W2 3 1 External enclosure 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 2 PWB near Rectifier Bridge (BD1) 130 65.4 See table 8.10 3 3 3 Choke (LF1) Coil 120 70.5 See table 8.10	2	8	CY1	125	71.3	See table 8.10
enclosure is likely to be touched for 1s to 10s.	2	9	C7	105	70.7	See table 8.10
GTM86101-1215-W2 3 1 External enclosure 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 2 PWB near Rectifier Bridge (BD1) 130 65.4 See table 8.10 3 3 Choke (LF1) Coil 120 70.5 See table 8.10	2	10	Output Cord	71	50.7	likely to be touched for 1s
3 1 External enclosure 71 67.8 Table 23 used enclosure is likely to be touched for 1s to 10s. 3 2 PWB near Rectifier Bridge (BD1) 130 65.4 See table 8.10 3 3 Choke (LF1) Coil 120 70.5 See table 8.10	2	11	Ambient		40	
enclosure is likely to be touched for 1s to 10s.	GTM8610	1-1215-W2				
(BD1) 3 3 Choke (LF1) Coil 120 70.5 See table 8.10	3	1	External enclosure	71	67.8	likely to be touched for 1s
	3	2		130	65.4	See table 8.10
3 4 C1 105 66.0 See table 8.10	3	3	Choke (LF1) Coil	120	70.5	See table 8.10
S. 100 Oct table 0.10	3	4	C1	105	66.0	See table 8.10





		IEC 6	0601-1		
Clause	Requirem	ent + Test	Result -	Remark	Verdict
3	5	C2	105	74.8	See table 8.10
3	6	T1 winding	130	95.0	See table 8.10
3	7	T1 core		89.3	See table 8.10
3	8	CY1	125	57.2	See table 8.10
3	9	C7	105	70.3	See table 8.10
3	10	Output Cord	71 45.6		Table 23 used, enclosure is likely to be touched for 1s to 10s.
3	11	Ambient		40	
GTM8610	1-1224-W2			•	
4	1	External enclosure	71	64.2	Table 23 used, enclosure is likely to be touched for 1s to 10s.
4	2	PWB near Rectifier Bridge (BD1)	130	69.1	See table 8.10
4	3	Choke (LF1) Coil	120	67.2	See table 8.10
4	4	C1	105	64.4	See table 8.10
4	5	C2	105	73.5	See table 8.10
4	6	T1 winding	130	90.0	See table 8.10
4	7	T1 core		90.0	See table 8.10
4	8	CY1	125	56.0	See table 8.10
4	9	C7	105	71.8	See table 8.10
4	10	Output Cord	71	44.5	Table 23 used, enclosure is likely to be touched for 1s to 10s.
4	11	Ambient		40	







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

- ¹ Maximum allowable temperature on surfaces of test corner is 90 °C
- ² Max temperature determined in accordance with 11.1.3e)
- ³When thermocouples used to determine temperature of windings, limits of Table 22 reduced by 10 °C.
- ⁴ Supply voltage:
 - ME EQUIPMENT with heating elements 110 % of the maximum RATED voltage;
 - 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.
- 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.
- ⁵ **APPLIED PARTS** intended to supply heat to a **PATIENT S**ee RISK MANAGEMENT FILE containing temperatures and clinical effects. Also, see instructions for use.

11.1.1	RM RESULTS T (Table 23 or 24)	ABLE: Max	cimum tem	perature dı	uring norm	al use		N/A
							1	
11.1.2.1	RM RESULTS T	ABLE: App	olied parts	intended to	supply he	at to patier	nt	N/A
11.1.2.2	RM RESULTS T	ABLE: App	olied parts	not intende	ed to supply	y heat to pa	atient	N/A
11.1.3	TABLE: Tempera	ture of win	dings by c	hange-of-re	esistance n	nethod		N/A
Temperatu	ure T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulatio n class
Suppleme	ntary information:							
							<u> </u>	
11.1.3	RM RESULTS T	ABLE: Mea	asurements	3				N/A
	1							
11.2.2.1	RM RESULTS T	ABLE: Ris	k of fire in a	an oxygen	rich enviro	nment		N/A
11.2.2.1	11.2.2.1 TABLE: Alternative method to 11.2.2.1 a) 5) to determine existence of an ignition source					ın	N/A	
	T.							_
11.3	RM RESULTS T equipment	ABLE: Coi	nstructiona	I requirem	ents for fire	enclosure	es of ME	N/A
								-
11.5	RM RESULTS 1 conjunction with			nt and ME	systems ii	ntended fo	r use in	N/A



			IEC 60	601-1		
Clause	Requirement	+ Test			Result - Remark	Verdict
11.6.1		ow, spillage, leaka ompatibility with			r, cleaning, disinfection,	N/A
11.6.3	RM RESUL	TS TABLE: Spilla	ge on ME e	quipmen	t and ME system	N/A
11.6.5		TS TABLE: Ingres T and ME SYSTEI		or particu	ulate matter into ME	N/A
11.6.7	RM RESUL	TS TABLE: Sterili	zation of M	IE equipm	nent and ME systems	N/A
11.6.8	RM RESUL	TS TABLE: Comp	atibility wit	th substa	nces used	N/A
12.1	RM RESUL	TS TABLE: Accur	acy of con	trols and	equipment	N/A
12.4.1	RM RESUL	TS TABLE: Intenti	onal excee	eding of s	afety limits	N/A
12.4.2	RM RESUL	TS TABLE: Indica	tion of par	ameters r	elevant to safety	N/A
12.4.3	RM RESUL	TS TABLE: Accide	ental selec	tion of ex	cessive output values	N/A
12.4.4	RM RESUL	TS TABLE: Incorr	ect output			N/A
12.4.5.3	RM RESUL	TS TABLE: Radio	therapy eq	uipment		N/A
12.4.5.4	RM RESUL therapeution		ME equipn	nent prod	ucing diagnostic or	N/A
12.4.6	RM RESUL	TS TABLE: Diagn	ostic or the	erapeutic	acoustic pressure	N/A
13.1.2	waive SINGLE	-	in 4.7, 8.1 k	o), 8.7.2, a	ion in parts & components and 13.2.2 relative to stances	to N/A
Power di	ssipated less th	nan (W)	:	15		
Energy d	issipated less t	han (J)	:	900		
	component tested	Measured power dissipated (W)	Calculate dissipa		SINGLE FAULT CONDITIONS waived (Yes/No)	Remarks
			-	•		
Supplem	entary informat	ion:				



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

13.2 TABLE: SINGLE FAULT CONDITIONS in accordance with 13.2.2 to 13.2.13, inclusive

Clause No.	Description of SINGLE FAULT CONDITION	Results observed	HAZARDOUS SITUATION (Yes/No)
13.2.2	Electrical SINGLE FAULT CONDITIONS per Clause 8.1:	_	_
	C1 short-circuited	Fuse opened immediately no hazard	No
	C2 short-circuited	Fuse opened immediately no hazard	No
	R6 short-circuited	Unit work normally no hazard	No
	R3 short-circuited	Unit shutdown immediately recoverable no hazard	No
	D1 short-circuited	Unit work normally no hazard	No
	R8 short-circuited	Fuse opened immediately no hazard	No
	R9 short-circuited	Unit shutdown immediately recoverable no hazard	No
	R12 short-circuited	Unit shutdown immediately recoverable no hazard	
	BD1 short-circuited	EUT shut down, fuse opened	No
13.2.3	Overheating of transformers per Clause 15.5:	_	_
		See 15.5	No
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:	-	ı
		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:	_	I
		No temperature limiting device	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



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Clause	Requirement + Test	Result - Remark	Verdict

Clause No.	Description of SINGLE FAULT CONDITION	Results observed	HAZARDOUS SITUATION (Yes/No)	
	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 ¹ – Also see 13.10	_	_	
		No such motor	N/A	
		No such motor	N/A	
13.2.10	Additional test criteria for motor operated ME EQUIPMENT in 13.2.8 &13.2.9:	_	_	
	For every test in SINGLE FAULT CONDITION of 13.2.8 and 13.2.9, motor-operated EQUIPMENT stared from COLD CONDITION at RATED voltage or upper limit of RATED voltage range for specified time:	No motor	N/A	
	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	No motor	N/A	
	Temperatures measured as specified in 11.1.3 d)	No motor	N/A	
	Temperatures did not exceed limits of Table 26	No motor	N/A	
13.2.12	Failure of parts that might result in a MECHANICAL HAZARD (See 9 & 15.3):	_		
		To be checked on end product	N/A	

Supplementary information:

1 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.

13.2.6	RM RESULTS TABLE: Leakage of liquid	
14.1	RM RESULTS TABLE: Programmable electrical medical systems - General	N/A
14.6.1	RM RESULTS TABLE: Identification of known and foreseeable hazards	N/A
14.6.2	RM RESULTS TABLE: Risk control	N/A
14.7	RM RESULTS TABLE: Requirement specification	N/A



	I	IEC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
14.8	RM RESULTS TABLE: Architectu	ire	N/A
	T		
14.10	4.10 RM RESULTS TABLE: Verification		N/A
14.11	RM RESULTS TABLE: PEMS valid	dation	N/A
14.13	RM RESULTS TABLE: Connection to other equipment	on of PEMS by NETWORK/DATA COUPLING	N/A

15.3	TABLE: Mechanical Strength tests 1)			Р	
Clause	Name of Test	Test conditions	Observed results/Remarks		
15.3.2	Push Test	Force = 250 N ± 10 N for 5 s	No visible damage.		
15.3.3	Impact Test	Steel ball (50 mm in dia., 500 g \pm 25 g) falling from a 1.3 m	No visible 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) = 5	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) = 90	No visible damage.		
Supplementary information: ¹⁾ As applicable, Push, Impact, Drop, Mould Stress Relief and Rough Handling Tests (delete not applicable rows).					

15.4.1	5.4.1 RM RESULTS TABLE: Construction of connectors	
		T
15.4.2.1 a	RM RESULTS TABLE: THERMAL CUT-OUTS and OVER-CURRENT RELEASES	N/A
	T	
15.4.2.1 c	RM RESULTS TABLE: Independent non-SELF-RESETTING THERMAL CUT-OUT	N/A
45 404 1		N1/A
15.4.2.1 d	RM RESULTS TABLE: Loss of function of ME EQUIPMENT	N/A
15.4.2.1 h	DM DECLII TO TADI E. Mc FOURNEST with tubular booting clamanta	N/A
13.4.2.111	RM RESULTS TABLE: ME EQUIPMENT with tubular heating elements	IN/A
15.4.3.1	RM RESULTS TABLE: Housing	N/A
15.4.3.2	RM RESULTS TABLE: Connection	N/A
,		
15.4.3.3	RM RESULTS TABLE: Protection against overcharging	N/A
15.4.4	RM RESULTS TABLE: Indicators	N/A



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

15.4.5 RM RESULTS TABLE: Pre-set controls N/A	15.4.5	RM RESULTS TABLE: Pre-set controls	N/A
---	--------	------------------------------------	-----

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			_	Р	
Primary voltage (most adverse value from 90 % to 110 % of RATED voltage)(V)1		_			
RATED input frequency (Hz) 60		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)	Ambien t (°C)
Sec. winding	В	Fuse 2A	Yes		165 ²	1	25.5

 $^{^{2)}\}mbox{Thermocouples}$ are used, so the limit is to be reduced by 10 $^{o}\mbox{C}.$

	TABLE: transformer overload test – conducted only when protective device under short-circuit test operated					Р	
Primary volta		264					
RATED input frequency (Hz):							
	Test current just below minimum current that would activate protective device & 0.54 achieve THERMAL STABILITY under method a) (A)						
Test current based on Table 32 when protective device that operated under method a) is external to transformer, and it was shunted (A):						N/A	
Winding test	Class of insulation (A, B, E, F, H)	Type of protective device used (fuse, circuit breaker)/Ratings	Maximum allowed temp from Table 31 (°C)	winding temp '		Ambient (°C)	
Sec. winding	В	Fuse 2A	165 ²	76.1		25.5	

¹⁾ 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.



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

¹ 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.
- ²Thermocouples are used, so the limit is to be reduced by10 °C.

15.5.2	TABLE: Transformer dielectric strength after humidity preconditioning of 5.7			Р		
Transformer Model/Type/ Part No		Test voltage applied between	Test voltage, (V)	Test frequency (Hz)	Breakdown Yes/No	Deterioratio n Yes/No
All models		Primary & secondary windings	4000	60	No	No
All models		Primary winding & frame	1500	60	No	No
All mod	lels	Secondary winding & frame	500	60	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

16.1	.1 RM RESULTS TABLE: General requirements for ME Systems				
•					
16.6.1	TABLE: LEAKAGE CURRENTS IN ME SYSTEM _ TOUCH CURRENT MEASUREMENTS	N/A			
16.9.1	RM RESULTS TABLE: Connection terminals and connectors	N/A			
17	RM RESULTS TABLE: Electromagnetic compatibility of ME equipment and ME systems	N/A			

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



ATTACHMENT 1: Photo of EUT





Photo 2: External view of GT*86101-***-W2 10 20 30 40 50 60 70 80 90 100 10





Photo 3: External view of GT*86101-***-W2E

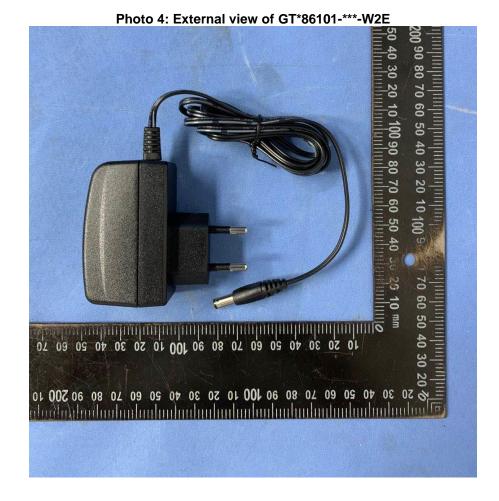








Photo 6: Internal view of GT*86101-***-W2









Photo 8: PCB view of EUT



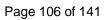
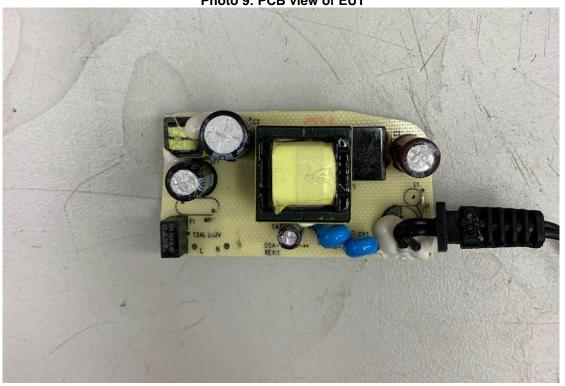
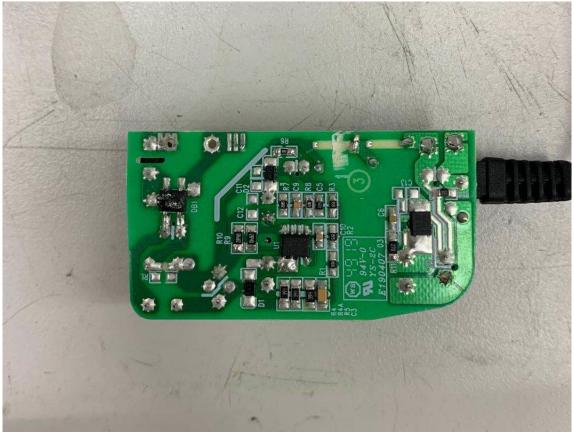


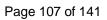


Photo 9: PCB view of EUT













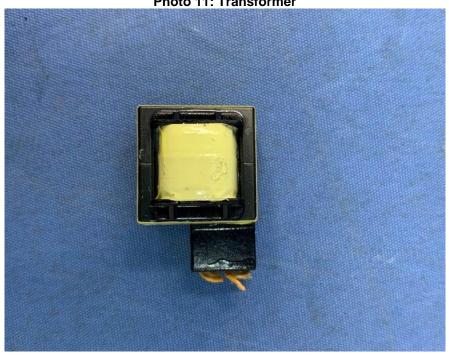
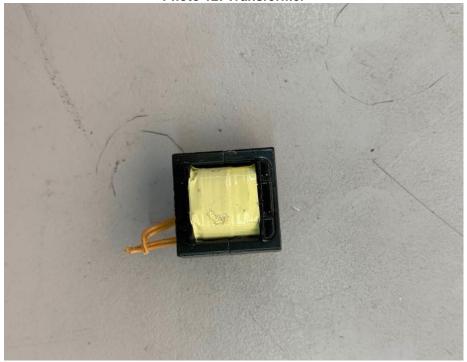


Photo 12: Transformer









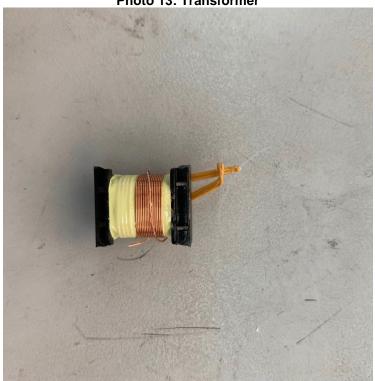


Photo 14: Transformer



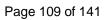
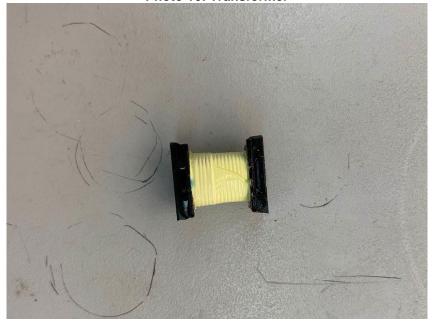


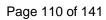






Photo 16: Transformer









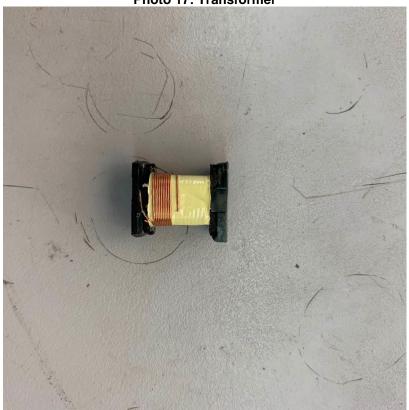


Photo 18: Transformer









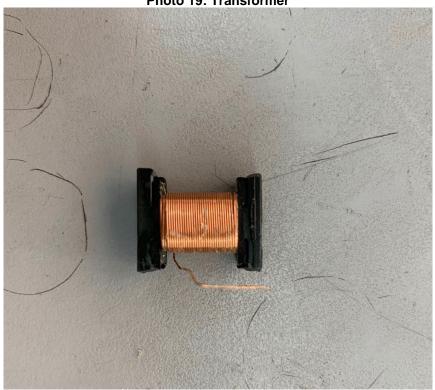
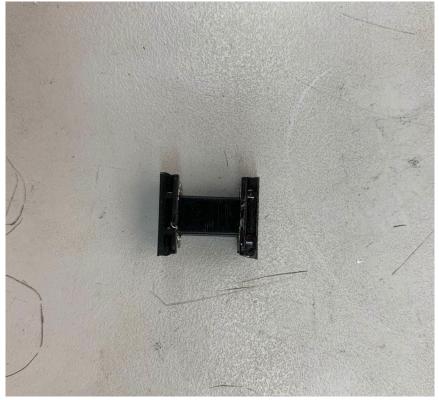


Photo 20: Transformer





IEC60601_ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict

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/IEC 60601-1:2005 + AMD 1:2012

Attachment Form No.: US_ND_IEC60601_1P

Attachment Originator.....: UL(US)

Master Attachment.....: 2019-09-02

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	National Differences		Р
4.8	Components of ME EQUIPMENT		Р
	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.		Р
	(Replacement of clause 4.8 b)		
4.10.2	SUPPLY MAINS FOR ME EQUIPMENT AND ME SYSTEMS		Р
	(Replacement to reflect agreement with the National Electrical Code (NEC):		Р
	The reference to "500 V" replaced with "600 V" in the second and third dashes.		
	(Addition to reflect agreement with the NEC)		
	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 SYSTE	MS	N/A
6.6	Mode of operation		N/A
	(Addition to reflect agreement with NFPA 70)	Not X-ray system	N/A
	X-Ray systems are classified as long time operation (> 5 min) or momentary operation (< 5 sec).		
7.0	ME EQUIPMENT identification, marking and documents		N/A
7.2.11	Mode of operation		N/A
	(Addition to reflect agreement with NFPA 70)	Not X-ray system	N/A
	X-Ray systems are marked as long time operation or momentary operation.		
	ı	L.	1



IEC60601_ATTACHMENT 3				
Clause	Requirement + Test		Result - Remark	Verdict

7.2.22	(Addition of new item)		N/A
1.2.22	Colours of medical gas cylinders		IN/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.	No medical gas	N/A
8.0	Protection against electrical hazards from ME EQU	JIPMENT	Р
8.2	Requirements related to power sources		N/A
	(Addition to reflect agreement with the NEC)	Direct plug-in	N/A
	All fixed me equipment and permanently installed me equipment are class i me equipment.		
8.6.1	Application of requirements		N/A
	(Addition to reflect agreement with NFPA 99)	Not X-ray system	N/A
	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.		
	(Addition to reflect agreement with NFPA 99)	Not X-ray system	N/A
	Non-current carrying conductive parts of X-Ray ME EQUIPMENT likely to become energized are PROTECTIVELY EARTHED		
8.7.3	Allowable values		Р
	(Deletion to reflect agreement with NFPA 99 which does not allow for allowance greater than the stated values)	See table 8.7.	Р
	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		
8.11	MAINS PARTS, components and layout		N/A
	(Addition to reflect agreement with the NEC)	Not permanently connected.	N/A
	Permanently connected ME EQUIPMENT has provision for the connection of one of the wiring systems that is in accordance with the NEC.		



	IEC60601_ATTACHMENT 3				
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 obvious 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.	E ly	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:	No such cable.	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-wirin material such as computer cable	No such cable.	N/A		
	2) If not exposed to abuse, the cables are as indicated in item 1) above or are:	No such cable.	N/A		
	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.				
	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 cable.	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.	No such cable.	N/A		
	(Addition to reflect agreement with the NEC)	No such cord.	N/A		
8.11.3.2	The flexible cord is of a type that is acceptable for the particular application. It is acceptable for use a 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				
8.11.3.3	Cross-sectional area of POWER SUPPLY CORDS		N/A		



IEC60601_ATTACHMENT 3				
Clause	Requirement + Test		Result - Remark	Verdict

(Addition to reflect agreement with NFPA 99)	Not X-ray equipment.	N/A
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.		
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
If not exposed to abuse, the cables are as indicated in item 1) above or are:		N/A
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.		
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_ATTACHMENT 4				
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60601-1:2005, COR1:2006, COR2:2007, AMD:1:2012. CANADIAN NATIONAL DIFFERENCES

Medical electrical equipment — Part 1: General requirements for basic safety and essential performance

Differences according to CAN/CSA-C22.2 No. 60601-1:14

Attachment Form No...... CA_ND_IEC60601_1P

Attachment Originator: CSA Group Master Attachment 2019-06-18

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Note *: IEC CANADIAN NATIONAL DIFFERENCES in Canada are called CANADIAN DEVIATIONS.

	National Differences	
1	Scope, object and related standards	Р
1.1	Scope	Р
	[Replace the first paragraph with the following]	Р
	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.	
	[Add the following note]	_
	Note 4A lette IFO 00004 Otes les le seiles	
	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.	
1.3	Collateral standards	Р
1.3	[Replace this clause with the following]	P
	[Neplace this clause with the following]	-
	Applicable Canadian 60601 collateral standards	
	become normative at the date of their publication	
	and apply together with this Standard.	
1.4	Particular standards	Р
	[Replace this clause with the following]	P
	[. topicado and didudo mar are rememby]	
	Applicable Canadian 60601/80601 particular	
	standards may modify, replace, or delete	
	requirements contained in this Standard. The	
	requirement of a Canadian 60601/80601 particular	
	safety standard takes priority over this Standard.	

2	Normative references	
	[Add the following]	Р
	Where reference is made to CSA Group	
	Where reference is made to CSA Group Standards, such reference are considered to refer	



IEC60601_ATTACHMENT 4			
Clause	Requirement + Test	Result - Remark	Verdict
	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:		
	CSA Group B51-09 Boiler, pressure vessel, and pressure piping code C22.1-12		
	Canadian Electrical Code, Part I CAN/CSA-C22.2 No. 0-10 General requirements — Canadian Electrical Code, Part II		
	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 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 Z32-09		
	Electrical safety and essential electrical systems in health care facilities CAN/CSA-Z305.8-03 (R2013) Medical supply units		
	Z305.12-06 (R2012) Safe storage, handling, and use of portable oxyger systems in residential buildings and health care facilities Z305.13-09	ì	
	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 ASME (American Society of Mechanical Engineers)		
	PTC 25-2008 Pressure Relief Devices CGA (Compressed Gas Association)		



	IEC60601_ATTACHMEI	NT 4	
Clause	Requirement + Test	Result - Remark	Verdict
	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) ISO (International Organization for Standardization) 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		
3	Terminology and definitions		N/A
3.41	HIGH VOLTAGE Replace this clause with the following] voltage above 750 V, as defined in the Canadian Electrical Code, Part I	Noted, but no such HV in EUT	N/A N/A
4.	General requirements		Р
4.1A	[Add the following clause] General requirements applicable to ME EQUIPMENT and ME SYSTEMS are provided in CAN/CSA-C22.2 No. 0.	_	P
4.8	Components of ME EQUIPMENT [Replace Items a) and b) and Note 2 with the	UL approved.	P P
	following] a) the applicable safety requirements of a relevant CSA Group, IEC, or ISO Standard; or		r
	b) where there is no relevant CSA Group, IEC, or ISO Standard, the requirements of this Standard shall be applied.		Р
	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.		_
4.10.2	SUPPLY MAINS for ME EQUIPMENT and ME SYSTEMS [Replace the first sentence with the following] ME EQUIPMENT intended to be connected to SUPPLY MAINS is in accordance with the Canadian Electrical Code, Part I, and the following RATED voltages are not be exceeded:		P P



IEC60601_ATTACHMENT 4				
Clause	Requirement + Test		Result - Remark	Verdict

7.	ME EQUIPMENT identification, marking and documents		Р
7.7	[Replace Clauses 7.7.1 to 7.7.5 with the following] Colours of the insulation of conductors are in accordance with the Canadian Electrical Code, Part I.		Ф
	A PROTECTIVE EARTH CONDUCTOR or a PROTECTIVE EARTH CONNECTION of any insulation on conductors is identified by either green or green and yellow colours at least at the termination of the conductors.	UL approved.	Р
	Identification by green or green and yellow insulation are only used for		Р
	- PROTECTIVE EARTH CONDUCTORS (see 8.6.2);		Р
	conductors as specified in 7.7.2; Note: In other safety standards such as IEC 60950-1, internal connections between conductive parts and the main protective earth are called "protective bonding conductors".		Р
	- POTENTIAL EQUALIZATION CONDUCTORS (see 8.6.7);		Р
	- FUNCTIONAL EARTH CONDUCTORS (see 8.6.9).		Р
	Colours of neutral conductors and POWER SUPPLY CORD conductors are in accordance with the Canadian Electrical Code, Part I, CSA C22.2 No. 21, and CSA C22.2 No. 49.		Р

8	Protection against electrical HAZARDS from ME EC	UIPMENT	Р
8.7.3	[Add the following paragraph]		Р
	Allowable values are also in accordance with the Canadian Electrical Code, Part I.		
8.11.3.2	[Replace this clause with the following] The following requirements for POWER SUPPLY CORDS apply:	No power cord	N/A
	a) The MAINS PLUG of non-PERMANENTLY INSTALLED EQUIPMENt is	No power cord	N/A
	 i) if moulded-on type, a hospital-grade mains plug complying with CSA C22.2 No. 21; 	No power cord	N/A
	ii) a hospital-grade disassembly attachment plug type complying with CSA C22.2 No. 42; or	No power cord	N/A



	IEC60601_ATTACHMENT 4			
Clause	Requirement + Test	Result - Remark	Verdict	
	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 is 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:	No power cord	N/A	
	the centre contact of an Edison base lampholder;	No power cord	N/A	
	2) a single pole switch;	No power cord	N/A	
	 an automatic control with a marked off position; 	No power cord	N/A	
	4) a solitary fuse/fuse holder; or	No power cord	N/A	
	any other single pole overcurrent protective device.	No power cord	N/A	
	b) A detachable POWER SUPPLY CORD for non- PERMANENTLY INSTALLED EQUIPMENT (cord- connected equipment) is of a type	No power cord	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 OF OPERATOR; 	No power cord	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	No power cord	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.	No power cord	N/A	
	c) The detachable POWER SUPPLY CORD	No power cord	N/A	
	i) comply with the applicable requirements of CSA C22.2 No. 21; and	No power cord	N/A	
	ii) not be smaller than No. 18 AWG, and the mechanical serviceability is not less than:	No power cord	N/A	
	Type SJ or equivalent for ME EQUIPMENT that is mobile or exposed to abuse; and	No power cord	N/A	
	 Type SV or equivalent for ME EQUIPMENT that is not exposed to abuse (or Type HPN if required because of temperature). 	No power cord No power cord	N/A N/A	



	IEC60601_ATTACHMENT 4				
Clause	Requirement + Test	Result - Remark	Verdict		
	Note: See CSA C22.2 No. 49 for requirements for the cord types mentioned in Sub-item 2).				
	d) Installation of POWER SUPPLY CORDS are meeting the requirements of the Canadian Electrical Code, Part I, as applicable	No power cord	N/A		
8.11.5	Mains fuses and OVER-CURRENT RELEASES		Р		
	[Replace this clause with the following]	See the table 8.10.	Р		
	Installation of overcurrent protective devices are in accordance with the Canadian Electrical Code, Part I.				

9	Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS		N/A
9.7.5	[Replace this clause with the following]	No pressure vessel	N/A
	Pressure vessels comply with the requirements of CSA B51, as applicable		
9.7.7	[Replace this clause with the following]	No pressure relief device	N/A
	A pressure-relief device comply, as applicable, with the requirements of ASME PTC 25 or equivalent Canadian requirements.		

15	Construction of ME EQUIPMENT.		Р
15.4.1	[Add the following item] 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 is	No gas connection	N/A
	i)as-specific, yoke type, or nut and nipple type valve connections complying with CGA V-1 for pressures over 1380 kPa (200 psi); or	g No gas connection	N/A
	ii)	No gas connection	N/A
	Note: 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.		_



IEC60601_ATTACHMENT 4				
Clause	Requirement + Test	Result - Remark	Verdic	
15.4.8	[Add the following paragraph] Flexible cords and equipment wire of ME EQUIPMENT are in accordance with the Canadian Electrical Code, Part I	PE connection wire is approved by UL. See the table 8.10.	P	
6	ME SYSTEMS		N/A	
6.1	[Replace the paragraph that starts with "An ME SYSTEM shall provide:" with the following] An ME SYSTEM provide		N/A	
	- within the PATIENT ENVIRONMENT, the level of safety equivalent to ME EQUIPMENT complying with this CSA Group Standard; and	Not medical system	N/A	
	 outside the PATIENT ENVIRONMENT, the level of safety equivalent to equipment complying with their respective CSA Group, IEC, or ISO safety Standards. 	Not medical system	N/A	
	[Replace the third-last paragraph with the following]	Not medical system	N/A	
	Non-ME EQUIPMENT, when used in an ME SYSTEM, complies with the CSA Group, IEC, or ISO safety Standards that are relevant to that equipment.			
6.9.2.1	d) If the MULTIPLE SOCKET OUTLET is combined with a separating transformer, the following additional requirements apply:		_	
	 The separating transformer complies with this Standard. 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. 	No MSO	N/A	
	Note 1: As a separating transformer is not a MAINS SUPPLY TRANSFORMER, it does not require more than BASIC INSULATION.	No MSO	N/A	
	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.	No MSO	N/A	
	The separating transformer assembly is a CLASS I construction.	No MSO	N/A	
	 The degree of protection against ingress of water as given in IEC 60529 is specified. 	No MSO	N/A	



	IEC60601_ATTACHMENT 4				
Clause	Requirement + Test	Result - Remark	Verdict		
	- The separating transformer assembly is marked according to the requirements of 7.2 and 7.3.	No MSO	N/A		
	- The MULTIPLE SOCKET OUTLET is permanently connected to the separating transformer, or the socket-outlet of the separating transformer assembly is 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)	No MSO	N/A		
	[Add the following item] 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.	No MSO	N/A		



IEC60601_ATTACHMENT 5				
Clause	Requirement + Test		Result - Remark	Verdict

National stand	dard reference: SN EN 6060	01-1:2006	
substances SR 81 Annex 1.7 of SR 8 Switches containing relays and level of Ordinance on che SR 814.81, Annex Annex 2.15 of SR containing cadmit Note: Ordinance relation substances, SR 814.0	814.81 applies for batteries	No such component.	N/A
having a rated curprovided with a pl 1(3.ed.) + am1, S dimension sheets - SEV 6533-2:200 - SEV 6534-2:200 250/400V 10A Supply cords of phaving a rated curprovided with a pl 1(3.ed.) + am1, S following dimension - SEV 5933-2:200 - SEV 5934-2:200 V, 16A - SEV 5932-2:200 250/400V 16A Note: 16 A plugs are r	9 Plug type 11, L + N, 250V 10A 9 Plug type 12, L + N + PE, 250V 9 Plug type 15, 3L + N + PE, ortable electrical appliances rent not exceeding 16 A shall be ug complying with IEC 60884- EV 1011 and one of the	No supply cords.	N/A



IEC60601_ATTACHMENT 6				
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60601-1 Republic of Korea NATIONAL DIFFERENCES

(Medical electrical equipment - Part 1 : General requirements for basic safety and essential performance)

Differences according to: Notification of MFDS No. 2020-12, Annex 1

Attachment Form No. KR_ND_IEC60601_1P

Attachment Originator.....: KTR

Master Attachment.....: 2020-05-12

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, ,,			
	Special national conditions (if any)		_
Voltage	National supply voltages are 110, 220 V and 380 V.		Р
Frequency	Only appliances having supply frequency of 60 Hz or a frequency range including 60 Hz are accepted.		Р
Instruction	Instruction manuals and appliance markings related safety, including nameplate shall be in Korean or graphical symbols in accordance with IEC Publication 417.	Shall be checked in end product level.	N/A
Plug	Plugs for connection of the equipment to the supply mains shall comply with the Korean Standard (KSC 8305 and 8300)		Р



IEC60601_ATTACHMENT 7				
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60601-1 JAPAN NATIONAL DIFFERENCES

Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

A1:2012(MOD))

Attachment Form No. JP_ND_IEC60601_1P

Attachment Originator.....: TÜV Rheinland Japan Ltd.

Master Attachment.....: 2019-05-03

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	National Differences	Р
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.	_



	IEC60601_ATTACHMENT 7		
Clause	Requirement + Test	Result - Remark	Verdict
2	Replace the listed standards with the followings: JIS B 7761-3, Hand-transmitted vibration - Part 3 General requirements for measurement and evaluation NOTE: ISO 5349-1, Mechanical vibration - Measurement and evaluation of human exposure to hand-transmitted vibration - Part 1: General requirements (IDT) JIS B 9718:2013, Safety of machinery - Safety distances to prevent hazard zone being reached upper and lower limbs NOTE: ISO 13857:2008, Safety of machinery Safety distances to prevent hazard zones being reached by upper al lower limbs (IDT) JIS C 0445, Identification of equipment terminals and of terminations of certain designated conductors, including general rules for an alphanumeric system NOTE: IEC 60445, Basic and safety principles for man-mach interface, marking and identification - Identification of equipme terminals, conductor terminations and conductors (IDT) JIS C 0447, Man-machine interface (MMI) - Actuating principles NOTE: IEC 60447, Basic and safety principles for man-mach interface, marking and identification - Actuating principles (ID JIS C 0920:2003, Degrees of protection provided by enclosures (IP Code) NOTE 1: IEC 60529:2001, Degrees of protection provided by enclosures (IP Code) NOTE 2: According to IEC60601-1:2005, IEC 60529:1989 an Amendment 1:1999 are listed as Normative references, however, the latest edition is edition 2.1 issued in 2001 and th corresponding Japanese Industrial standard was listed as normative reference. JIS C 1509-1, Electroacoustics - Sound level meters - Part 1: Specifications NOTE: IEC 61672-1, Electroacoustics - Sound level meters - Part 2: Pattern evaluation tests NOTE: IEC 61672-2, Electroacoustics - Sound level meters - Part 2: Pattern evaluation tests	by ine ent ine T) d ne	



IEC60601_ATTACHMENT 7			
Clause	Requirement + Test	Result - Remark	Verdict
2	JIS C 2134, Method for the determination of the proof and the comparative tracking indices of solid insulating materials NOTE: IEC 60112, Method for the determination of the proof and the comparative tracking indices of solid insulating materials (IDT) JIS C 3301:2000, Rubber insulated flexible cords 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) JIS C 3306:2000, Polyvinyl chloride insulated flexible cords NOTE: IEC 60227-5:1997, Polyvinyl chloride insulated cables rated voltages up to and including 450/750 V - Part 5: Flexible cables (cords) (NEQ) JIS C 4003, Electrical insulation - Thermal evaluation and designation (MOD) JIS C 5101-14:2009, Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagneti interference suppression and connection to the supply mains 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) JIS C 6065:2013, Audio, video and similar electronic apparatus - Safety requirements NOTE: IEC 60085:2001, Audio, video and similar electronic apparatus - Safety requirements NOTE: IEC 60825-1:2007, Safety of laser products NOTE: IEC 60825-1:2017, Safety of laser products - Part 1: Equipment classification and requirements (IDT) JIS C 6950-1:2012, Information technology equipment - Safety - Part 1: General requirements NOTE: IEC 60950-1:2005, Information technology equipment - Safety - Part 1: General requirements NOTE: IEC 60950-1:2005, Information technology equipment - Safety - Part 1: General requirements NOTE: IEC 60950-1:2005, Information technology equipment - Safety - Part 1: General requirements NOTE: IEC 60950-1:2005, Information technology equipment - Safety - Part 1: General requirements	of	



IEC60601_ATTACHMENT 7			
Clause	Requirement + Test	Result - Remark	Verdict
2	JIS C 8282-1, Plugs and socket-outlets for household and similar purposes - Part 1: General requirements NOTE: IEC 60884-1, Plugs and socket-outlets for household and similar purposes - Part 1: General requirements (MOD) JIS C 8303, Plugs and receptacles for domestic and similar general use NOTE: No corresponding International standard exists. This standard has been listed as normative reference correspondir 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. JIS C 60068-2-2:2010, Environmental testing - Pat 2-2: Tests - Test B: Dry heat NOTE: IEC 60068-2-2:2007, Environmental testing - Pat 2-2: Tests - Test B: Dry heat (IDT) JIS C 60079-0, Explosive atmospheres - Part 0: Equipment - General requirements NOTE: IEC 60079-0, Explosive atmospheres - Part 0: Equipment - General requirements (IDT) JIS C 60079-2, Electrical apparatus for explosive gas atmospheres - Part 2: Pressurized enclosure "p" NOTE: IEC 60079-2, Explosive atmospheres - Part 2: Equipment protection by pressurized enclosures "p" (IDT) JIS C 60079-6, Electrical apparatus for explosive gas atmospheres - Part 6: Oil immersion "o" NOTE: IEC 60079-6, Explosive atmospheres - Part 6: Equipment protection by oil immersion "o" (IDT) JIS C 60364-4-41, Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock NOTE: IEC 60364-4-41, Low-voltage systems - Part 1: Principles, requirements and tests NOTE: IEC 60664-1:2009, Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests (IDT)	art	



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Clause	Requirement + Test	Result - Remark	Verdict	
2	JIS C 60695-11-10, Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods NOTE: IEC 60695-11-10, Fire hazard testing - Part 11-10: Te flames - 50 W horizontal and vertical flame test methods (IDT 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 equipmer 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) JIS T 0801-1:2010, Sterilization of health care products - Ethylene oxide - Part 1: Requirements for development, validation and routine control of sterilization process for medical devices NOTE: ISO 11135-1:2007, Sterilization of health care product Ethylene oxide - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices (IDT) 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 NOTE: ISO 11137-1:2006, Sterilization of health care product Radiation - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices NOTE: ISO 11137-1:2006, Sterilization of health care products - Moist heat - Part 1: Requirements for the development, validation and routine control of sterilization process for medical devices 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 NOTE: ISO 17665-1:2006, Sterilization of health care product Moist heat - Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices (IDT) JIS T 2304:2012, Medical device software -	st) art int : a s - es	Verdict —	
	Software life cycle processes	of		



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



IEC60601_ATTACHMENT 7			
Clause	Requirement + Test	Result - Remark	Verdict
2	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 ISO 7000-DB:2004, Graphical symbols for use or equipment - Index and synopsis NOTE: "DB" indicated ISO-IEC jointed online database. ISO 7010:2011, Graphical symbols - Safety colours and safety signs - Registered safety signs 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. ISO 15223-1:2012, Medical devices Symbols to be used with medical device labels, labelling and information to be supplied Part 1: General requirements 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) IEC 60079-5, Explosive atmospheres — Part 5: Equipment protection by powder filling "q" IEC 60086-4, Primary batteries - Part 4: Safety of lithium batteries NOTE: JIS C 8513 Safety of primary lithium batteries (MOD) IEC 60127-1, Miniature fuses - Part 1: Definitions for miniature fuse-links NOTE: JIS C 6575-1 Miniature fuses - Part 1: Definitions of miniature fuses and general requirements for miniature fuses and	a de la companya de l	



Clause Requirement + Test Re 2 IEC 60227-1:2007, Polyvinyl chloride insulated cables of rated voltages up to and including	esult - Remark	Verdict
	1	
450/750 V — Part 1: Ğeneral 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) 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. IEC 60252-1, AC motor capacitors - Part 1: General - Performance, testing and rating - Safety requirements - Guidance for installation and operation 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) 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. IEC 60417, Graphical symbols for use on equipment - Part 1-2: General requirements for safety - Collateral standard: Electromagnetic compatibility - Requirements and tests NOTE: The current "JIS T 0601-1-2:2012 Medical electrical equipment - Part 1-2: General requirements for safety -		



	IEC60601_ATTACHME	NT 7	
Clause	Requirement + Test	Result - Remark	Verdict
2	IEC 60601-1-6, Medical electrical equipment - Path-6: General requirements for basic safety and essential performance - Collateral standard: Usability NOTE: As the corresponding international standard, IEC 623: is applicable. 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 IEC 60851-3:2009, Winding wires - Test methods Part 3: Mechanical properties NOTE: JIS C 3216-3:2011, Winding wires - Test methods - P 3: Mechanical properties (MOD) IEC 60851-5:2008, Winding wires - Test methods - P 5: Electrical properties (MOD) IEC 60851-6:1996, Methods of test for winding wires - Part 6: Thermal properties 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 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 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 for general applications NOTE: JIS C 61558-2-1 Safety of power transformers power supplies incorporating separating transformers for general applications	rt	Verdict



	IEC60601_ATTACHMENT 7			
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 suitably understandable by replacing mechanical HAZARD with mechanical HAZARDOUS SITUATION, HARM or unacceptable RISK.	is	_	
3.70	Replace the existing text with: condition in which all means provided for protectio 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 traine 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.	cells.	N/A	
7.3.4	Add the following NOTE NOTE Corresponding Japanese Industrial Standard for IEC 60127-1: JIS C 6575-1:2009		_	



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Clause	Requirement + Test	Result - Remark	Verdict		
7.4.3	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. 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 Replace "a" of Table 1 with the following note: Note: For consistency, in international standards only the symbol "I" is used for litre, although the symbol "L" is also given in JIS Z 8000 (all parts).	No numeric indications of parameters.	N/A		
7.7.4	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".		N/A		
7.7.5	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.		N/A		
7.9.3.2	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.		N/A		
8.8.2	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		
8.8.3	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.		Р		
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)".		_		
8.9.1.5	At the end of the title of this sub-clause, add "(Apply to MOOP and MOPP)".		_		



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Clause	Requirement + Test	Result - Remark	Verdict		
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	Add the following between the first paragraph are the second paragraph: And, rubber insulated flexible cords of JIS C 330 polyvinyl chloride insulated flexible cords of JIS 3306 or cords of which the robustness is equal to or more than those are usable. Add the following between the second paragrap 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.	on t he	N/A		
	flexible cords, if the temperature of the above- mentioned external metal part exceeds 75 °C.				
9.2.2.2	In the bottom column of Table 20, replace the existing text with the following: a The values in this table are taken from JIS B 9718:2013.				
9.2.4	In e), replace a further "MECHANICAL HAZARI and the original "HAZARD" with a further "HAZARDOUS SITUATION" and the original "HAZARDOUS SITUATION", respectively.)"			
9.3	Replace the NOTE 2: A sharp edge MECHANICAL HAZARD could curvire insulation which could lead to an electrical HAZARDOUS SITUATION. This requirement is intended to cover all these HAZARDS.	t	N/A		



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Clause	Requirement + Test	Result - Remark	Verdict		
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 n R unit, but Gy unit (air kerma), which correspond to 1 mR/h \approx 10 μ Gy/h." Replace (0,1 mR/h) with (0.1 mR/h \approx 1 μ Gy/h) in NOTE 2."	s			
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 transformer with three insulating materials of Clar A, Class B and Class E shall be the lowest limit 105 °C of Class A.)		Р		
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]).		_		



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Clause	Requirement + Test	Result - Remark	Verdict		
16.1	Replace the last two paragraphs with the form Otherwise, non-ME EQUIPMENT shall be the which are in compliance with relevant JIS standards or the Technical Requirements of Electrical Appliance and Material Safety Activates which ensure safety equivalent to the said standards/technical requirements. Equipment in which protection against elect shock relies only on BASIC INSULATION is be used in an ME SYSTEM. For the measures for ensuring safety, e.g. the combined with a separating transformer with DOUBLE INSULATION or RAINFORCED INSULATION, equipment only with BASIC INSULATION may be used. Compliance is checked by inspection of appropriate documents or certificates.	f the tor tric hall not	N/A		
16.6.4.1	In NOTE, replace "no possibility of any HAZ with "no possibility of any HAZARDOUS SITUATION".	ZARD"	_		
16.9.2.1	In the text of c), replace "IEC 60884-1" with 60884-1 or JIS C 8282-1".	n "IEC	_		
Annex I	In I.1.3, replace the first dash with the follow - PATIENTS should only be connected to APPLIED PARTS of ME EQUIPMENT com with this standard. Other equipment should with relevant IEC or ISO standards or comprelevant JIS safety standards or the Technic Requirements of the Electrical Appliance ar Material Safety Act, or ensure safety equivates the said standards/technical requirements. Replace the existing NOTE 2 with the follow NOTE 2 IEC 60601: MEDICAL ELECTRIC EQUIPMENT in compliance with IEC 60601 parts) or JIS T 0601 (all parts). Replace the existing NOTE 3 with the follow NOTE 3 IEC xxxxxx: Non-medical equipment compliance with relevant IEC safety standar Include non-medical equipment in compliant relevant JIS safety standards or the Technic Requirements of the Electrical Appliance ar Material Safety Act, or non-medical equipment ensuring safety equivalent to the said standards/technical requirements.	plying comply oly with cal alent to wing: AL (all wing: nt in rds. ace with cal alent do	N/A		
Annex L	In the first paragraph, replace "wound components" with "wound components (e.g transformers, motors, etc.)"	J.	_		