





Test Report issued under the responsibility of:



TEST REPORT IEC 60601-1 Medical Electrical Equipment Part 1: General requirements for basic safety and essential performance	
Report Number.....	EFSH23070262-IE-01-L01
Date of issue.....	2023-11-10
Total number of pages	183
Name of Testing Laboratory preparing the Report	Eurofins Electrical Testing Service (Shanghai) Co., Ltd
Applicant's name	GlobTek, Inc.
Address.....	186 Veterans Dr. Northvale, NJ 07647 USA
Test specification:	
Standard	IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012, IEC 60601-1:2005/AMD2:2020
Test procedure	CB Scheme
Non-standard test method	N/A
TRF template used.....	IECEE OD-2020-F1:2020, Ed.1.3
Test Report Form No.	IEC60601_1U
Test Report Form(s) Originator	UL(US)
Master TRF	2022-05-13
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General disclaimer:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

Test item description :	Medical Power Supply
Trade Mark(s)	G GlobTek, Inc.
Manufacturer	GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 USA
Model/Type reference	GTM961005P-*PD*** The 1st "*" = 1 to 100, with interval of 1, denoting the rated output wattage designation from 1 W to 100 W. The 2nd "*" = -USBCJ means USB Type-C jack in housing = -USBCP means USB Type-C plug on fixed cord with strain-relief in housing The 3rd "*" = -T2 means desktop class II with C8 AC inlet = -T2A means desktop class II with C18 AC inlet = -T3 means desktop class I with C14 AC inlet = -T3A means desktop class I with C6 AC inlet The 4th "*" denotes any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.
Ratings	Input: 100-240 V~, 50-60 Hz, 1.5 A Output: PD mode: 5.0 – 20.0 V $\overline{=}$, Max. 5 A, Max. 100 W PPS mode: 3.3 – 21.0 V $\overline{=}$, Max. 5 A, Max. 100 W PD+PPS mode: 5.0 – 20.0 V $\overline{=}$ and 3.3 – 21.0 V $\overline{=}$, Max. 5 A, Max. 100 W

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	Eurofins Electrical Testing Service (Shanghai) Co., Ltd
Testing location/ address.....:		Building 18, No. 2168 Chenhang Highway, Minhang District, Shanghai, China
Tested by (name, function, signature).....:		Jack Gan Project Manager 
Approved by (name, function, signature)....:		Jackie Zhao Reviewer 
<input type="checkbox"/>	Testing procedure: CTF Stage 1:	N/A
Testing location/ address.....:		
Tested by (name, function, signature).....:		
Approved by (name, function, signature)....:		
<input type="checkbox"/>	Testing procedure: CTF Stage 2:	N/A
Testing location/ address.....:		
Tested by (name, function, signature).....:		
Witnessed by (name, function, signature) .:		
Approved by (name, function, signature)....:		
<input type="checkbox"/>	Testing procedure: CTF Stage 3:	N/A
<input type="checkbox"/>	Testing procedure: CTF Stage 4:	N/A
Testing location/ address.....:		
Tested by (name, function, signature).....:		
Witnessed by (name, function, signature) .:		
Approved by (name, function, signature)....:		
Supervised by (name, function, signature) :		

<p>List of Attachments (including a total number of pages in each attachment):</p> <p>Attachment 1 Photo documentation: 15 pages</p> <p>Attachment 2 US National Differences: 4 pages</p> <p>Attachment 3 Canada National Differences: 13 pages</p> <p>Attachment 4 Japan National Differences: 13 pages</p> <p>Attachment 5 Test report EFSH23070262-IE-01-L02 according to IEC 60601-1-6: 19 pages</p> <p>Attachment 6 Test report EFSH23070262-IE-01-L03 according to IEC 60601-1-11: 30 pages</p>	
<p>Summary of testing:</p> <ul style="list-style-type: none"> - All the tests have been passed with positive results. - Foreseeable misuse has been considered, no increased risk determined for this kind of products. - All tests were according to the standard IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012, IEC 60601-1:2005/AMD2:2020; IEC 60601-1-6:2010, IEC 60601-1-6:2010/AMD1:2013, IEC 60601-1-6:2010/AMD2:2020; IEC 60601-1-11:2015, IEC 60601-1-11:2015/AMD1:2020. 	
<p>Tests performed (name of test and test clause):</p> <p>5.7 Humidity preconditioning treatment</p> <p>5.9.2 Accessible parts</p> <p>7.1.2 Legibility of markings</p> <p>7.1.3 Durability of markings</p> <p>8.5.4 Working voltage</p> <p>8.7 Leakage currents and patient auxiliary currents</p> <p>8.8.3 Dielectric strength</p> <p>8.9.4 Measurement of creepage distances and air clearances</p> <p>9.4.2.1 Instability in transport position</p> <p>9.4.2.2 Instability excluding transport position</p> <p>11.1.1 Maximum temperature during normal use</p> <p>13.2 Single fault conditions in accordance with 13.2.2 to 13.2.13</p> <p>15.3 Mechanical strength</p>	<p>Testing location:</p> <p>Eurofins Electrical Testing Service (Shanghai) Co., Ltd</p> <p>Building 18, No. 2168 Chenhang Highway, Minhang District, Shanghai, China</p>

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

EU Group, CH, US, CA, JP.

CH: Switzerland.

The product fulfils the requirements of EN 60601-1:2006+A1:2013+A2:2021+A12:2014, SN EN 60601-1:2006+A1:2013+A2:2021+A12:2014, EN 60601-1-6: 2010+A1:2015+A2:2021, EN 60601-1-11:2015+A1:2021; ANSI/ AAMI ES60601-1:2005, ES60601-1:2005/AMD1 1:2012, ES60601-1:2005/AMD2:2021; CAN/CSA-C22.2 No. 60601-1:14 + A2:22 (R2022); JIS T 0601-1:2023

Remarks:

EN 60601-1:2006: IEC 60601-1:2005 (EQV);

EN 60601-1:2006/A1:2013: IEC 60601-1:2005/AMD1:2012 (EQV);

EN 60601-1:2006/A2:2021: IEC 60601-1:2005/AMD2:2020 (EQV);

EN 60601-1:2006/A12:2014:

In Annex ZZ of EN 60601-1:2006 (available in EN 60601-1:2006/A1:2013), replace "Annex ZZ" by "Annex ZZA" (two occurrences) and "Table ZZ.1" by "Table ZZA.1 (three occurrences)".	P
After Annex ZZA, add the following new Annex: Annex ZZB (informative)	N/A

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

(may be required by the product standard or client)

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

Procedure number, issue date and title:

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

Statement not required by the standard used for type testing

(Note: When IEC or ISO standard requires a statement concerning the uncertainty of the measurement systems used for tests, this should be reported above. The informative text in parenthesis should be delete in both cases after selecting the applicable option)

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.

(Typical)

GlobTek®, Inc.
186 Veterans Dr.
Northvale, NJ 07647 USA
www.globtek.com

ICT/ITE/Medical Power supply/电源供应器
USB Adaptive Power Source адаптер питания

REF P/N/номер/料号:
MODEL/модель/型号:GTM961005P-100PD-USBCP-T3A
INPUT/вход/输入:100-240V~, 50-60Hz, 1.5A

5.0V	===	5.0A
9.0V	===	5.0A
12.0V	===	5.0A, 100.0W
15.0V	===	5.0A
15.1V	===	5.0A
20.0V	===	5.0A
3.3-21.0V	===	5.0A

OUTPUT/выход/输出:

CE EAC VCI UK CA RoHS Efficiency Level VI

B1 A12 A1 A12 B1 B12: GND
A4, A9, B4, B9: V+
CC1: A5
D+: A6
D-: A7

Ta=40°C IP22 ≤5000m

MADE IN CHINA /Китай Производство
中国制造

(Class I model)

GlobTek®, Inc.
186 Veterans Dr.
Northvale, NJ 07647 USA
www.globtek.com

ICT/ITE/Medical Power supply/电源供应器
USB Adaptive Power Source адаптер питания

REF P/N/номер/料号:
MODEL/модель/型号:GTM961005P-100PD-USBCP-T2A
INPUT/вход/输入:100-240V~, 50-60Hz, 1.5A

5.0V	===	5.0A
9.0V	===	5.0A
12.0V	===	5.0A, 100.0W
15.0V	===	5.0A
15.1V	===	5.0A
20.0V	===	5.0A
3.3-21.0V	===	5.0A

OUTPUT/выход/输出:

CE EAC VCI UK CA RoHS Efficiency Level VI

B1 A12 A1 A12 B1 B12: GND
A4, A9, B4, B9: V+
CC1: A5
D+: A6
D-: A7

Ta=40°C IP22 ≤5000m

MADE IN CHINA /Китай Производство
中国制造

(Class II model)

Note:

1, Markings of other models are similar as above except model name and made in nations.

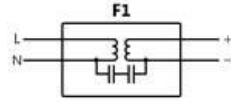
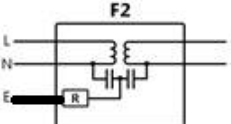
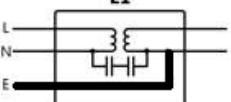
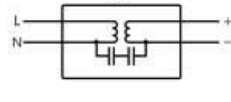
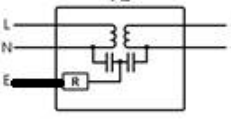
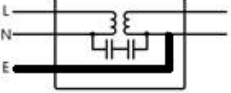
Test item particulars.....:	
Classification of installation and use.....:	transportable / portable / stationary / mobile / fixed / permanently installed / hand-held, body-worn
Supply Connection	internally powered / permanently installed / appliance coupler / non-detachable cord
Device type (component/sub-assembly/ equipment/ system).....:	Component
Intended use (Including type of patient, application location).....:	Power supply for medical equipment
Mode of operation.....:	Continuous / non-continuous
Accessories and detachable parts included.....:	No
Other options include.....:	N/A
Possible test case verdicts:	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement.....:	P (Pass)
- test object was not evaluated for the requirement.....:	N/E (collateral standards only)
- test object does not meet the requirement.....:	F (Fail)
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
Testing.....:	
Date of receipt of test item	2023-06-28
Date (s) of performance of tests	2023-07-04 to 2023-08-02
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.	
Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60601-1:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	

Name and address of factory (ies) : 1. GlobTek, Inc.
 186 Veterans Dr. Northvale, NJ 07647 USA
 2. GlobTek (Suzhou) Co., Ltd.
 Building 4, No. 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021, China

General product information and other remarks:

The equipment is external desktop AC-DC switching mode power supply with type C USB power delivery supporting protocol (PD) 2.0/3.0 + PPS, with max. output power 100 W.
 Maximum ambient temperature Tma: 40°C.
 Maximum altitude: 5000m

All models are identical except for:
 1 rated output power, which is set by firmware;
 2 the following differences:

Model	PCB layout	Appliance inlet and Class of equipment	Earthing type	Output connection	Output Voltage	Output Current	Output Power
GTM961005P- *PD-USBCJ-T2*	The same	C8, Class II		USB Type-C jack in housing	PD mode: 5.0 -20.0 V PPS mode: 3.3-21.0 V PD+PPS mode: 5.0 -20.0 V and 3.3 -21.0 V	Max. 5.0A	Max. 100W
GTM961005P- *PD-USBCJ-T2A*		C18, Class II					
GTM961005P- *PD-USBCJ-T3*		C14, Class I					
GTM961005P- *PD-USBCJ-T3A*		C6, Class I					
GTM961005P- *PD-USBCP-T2*		C8, Class II		USB Type-C plug on fixed cord with strain-relief in housing			
GTM961005P- *PD-USBCP-T2A*		C18, Class II					
GTM961005P- *PD-USBCP-T3*		C14, Class I					
GTM961005P- *PD-USBCP-T3A*		C6, Class I					

The bold lines in drawings of earthing type represent protective earthing.

After review, model GTM961005P-100PD-USBCP-T3A (with Earthing type E1) is subject to all tests, and GTM961005P-100PD-USBCJ-T3 (with Earthing type F2) was subject to test of Figure 13 & 14 of Clause 8.7.

Technical considerations:

1 Exceptions:

The following clauses are not evaluated in this report:

Clause 11.7 Biocompatibility, referencing ISO 10993

Clause 17 EMC, referencing IEC 60601-1-2

2 Scope of power supply evaluation defers the following clauses to be determined as part of the end-product evaluation:

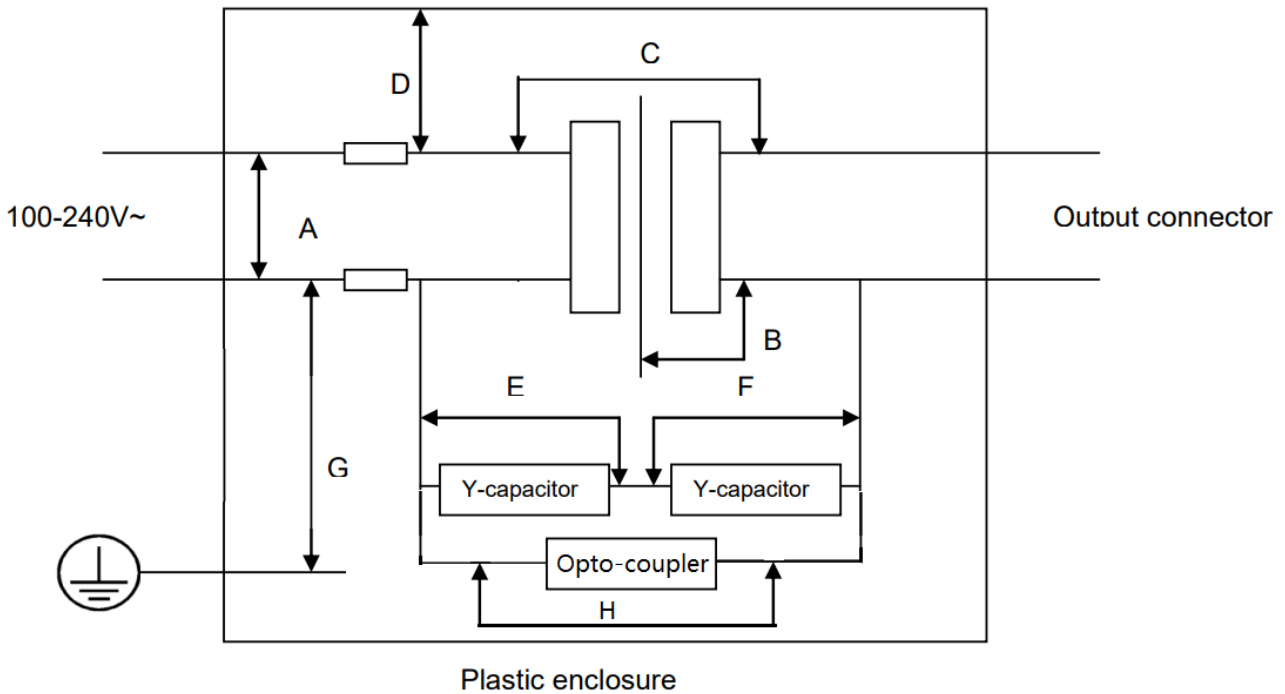
- Clause 7.5 Safety signs,
- Clause 7.9 Accompany Documents,
- Clause 9 ME hazard, except 9.1 and 9.3 are evaluated,
- Clause 10 Radiation,
- Clause 14 PEMS,
- Clause 16 ME system,

3 Risk control/Engineering considerations for component power supply:

For power supplies with no Risk Management installed in an end-product, consideration must be given to the following:

- a) End-product Risk Management Process to include consideration the acceptability of risk for the following components that were identified as High-Integrity Component: i.e. optocoupler.
- b) End-product Risk Management Process to include consideration the need for simultaneous fault condition testing.
- c) Power supply tested in 25°C, 95% R.H., 168 h. End-product Risk Management Process to include consideration the acceptability criteria.
- d) End-product Risk Management Process to include consideration the acceptability of risk in conjunction to insulation to resistance to heat, moisture, and dielectric strength.
- e) End-product Risk Management Process to include consideration the acceptability of risk in conjunction to the movement of components or conductors as part of the power supply.
- f) End-product Risk Management Process to include consideration the acceptability of risk in conjunction to the routing of wires away from moving parts and sharp edges as part of the power supply.
- g) End-product Risk Management Process to include consideration the acceptability of risk in conjunction to the Cleaning and Disinfection Methods as part of the power supply.
- h) End-product Risk Management Process to include consideration the acceptability of risk in conjunction to the Leakage of Liquids as part of the power supply.
- i) End-product Risk Management Process to include consideration the acceptability of risk in conjunction to the Arrangement of Indicators as part of the power supply.
- j) End-product Risk Management Process to include consideration the acceptability of risk in conjunction to the results of Mechanical Testing conducted as part of the power supply.
- k) End-product Risk Management Process to include consideration the acceptability of risk in conjunction to the selection of components as it pertains to the intended use, essential performance, transport, storage conditions as part of the power supply.

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

INSULATION DIAGRAM


Remark: Protective earthing is only applicable for GTM961005P-*PD*-T3* and GTM961005P-*PD*-T3A*

TABLE: INSULATION DIAGRAM									P
Pollution degree				2					—
Overvoltage category				II					—
Altitude				≤5000 m					—
Additional details on parts considered as applied parts				<input checked="" type="checkbox"/> None <input type="checkbox"/> Areas _ (See Clause 4.6 for details)					—
Area	Number and type of Means of Protection: MOOP, MOPP	CTI	Working voltage		Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	Remarks
			V _{rms}	V _{pk}					
A	1MOOP	IIIb	240	339	3.0	3.0	3.2	3.2	
B	2MOPP	IIIb	457.8	679.5	11.2	11.2	15.4	13.7	
C	2MOPP	IIIb	457.8	679.5	11.2	11.2	12.2	12.2	
D	2MOPP	IIIb	240	339	8	6.5	8.5	8.5	
E	1MOPP	IIIb	240	339	4	3.3	5.2	5.2	
F	1MOPP	IIIb	240	339	4	3.3	5.2	5.2	
G	1MOPP	IIIb	240	339	4	3.3	4.0	4.0	Approved appliance inlet

IEC 60601-1									
Clause	Requirement + Test						Result - Remark		Verdict
H	2MOPP	IIIb	240	339	8	6.5	8	8	Approved optocoupler
Supplementary Information: rated operating altitude ≤5000 m, multiplication factor for AIR CLEARANCE: MOOP 1.48, MOPP 1.29.									

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		--
4.1	Requirements of this standard applied in NORMAL USE and reasonably foreseeable misuse		P
4.2	RISK MANAGEMENT PROCESS FOR ME EQUIPMENT OR ME SYSTEMS		P
4.2.2	General requirement for RISK MANAGEMENT - PROCESS complies with ISO14971 (2019).....:	Risk Management Procedure, GTQPR05000, ver. A.2	P
4.2.3	Evaluating RISK		P
4.2.3.1	a) Compliance with the standard reduces residual risk to an acceptable level		P
	b) Manufacturer has defined risk acceptability criteria in the RISK MANAGEMENT PLAN.....:	Risk Management Plan for Device GTM961005P series, GT-RMPLAN2023-001, Rev. A.0	P
	c) When no specific technical requirements provided manufacturer has determined HAZARDS or HAZARDOUS SITUATIONS exists.		P
	- HAZARDS or HAZARDOUS SITUATIONS have been evaluated using the RISK MANAGEMENT PROCESS.		P
4.2.3.2	MANUFACTURER has addressed HAZARDS or HAZARDOUS SITUATIONS not specifically addressed in the IEC 60601-1 series.		P
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.	To be evaluated in end-product	N/A
	- Performance limits were identified in both NORMAL CONDITION and SINGLE FAULT CONDITION.		N/A
	- Loss or degradation of performance beyond the limits specified by the MANUFACTURER were evaluated		N/A
	- Functions with unacceptable risks are identified as ESSENTIAL PERFORMANCE.....:	See Appended Table 4.3	N/A
	- RISK CONTROL measures implemented		N/A
	- Methods used to verify the effectiveness of RISK CONTROL measures implemented		N/A
4.4	EXPECTED SERVICE LIFE stated in RISK MANAGEMENT FILE.....:	5 years, stated in the RMF	P
4.5	Alternative RISK CONTROL methods utilized:	No alternative RISK CONTROL methods used	N/A



IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
	RESIDUAL RISK resulting from the alternative RISK CONTROL measures or tests is acceptable and comparable to RESIDUAL RISK resulting from application of this standard.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
	Alternative means based scientific data or clinical opinion or comparative studies		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	RM is not included in the investigation of component power supply	N/A
	MANUFACTURER assesses the risk of accessible parts coming into contact with the patient: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
	Assessment identified the APPLIED PART TYPE requirements		N/A
4.7	ME EQUIPMENT remained SINGLE FAULT SAFE, or the RISK remained acceptable as determined by Clause 4.2.....:	ME remained SINGLE FAULT SAFE	P
	MANUFACTURER RISK ANALYSIS was used to determine failures to be tested.....: (ISO 14971 Cl. 5.2-5.5)		N/A
	Failure of any one component at a time that could result in a HAZARDOUS SITUATION, including those in 13.1, simulated physically or theoretically.....:	See appended Table 13.2 for simulated physical test	P
4.8	All components and wiring whose failure could result in a HAZARDOUS SITUATION used according to their applicable ratings, unless specified	See Table 8.10	P
	Components and wiring exception in the standard or by RISK MANAGEMENT PROCESS		N/A
	RISK MANAGEMENT PROCESS assesses components to identify components where the failure results in a HAZARDOUS SITUATION for components used outside their ratings	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	MANUFACTURER identified components where the failure results in a HAZARDOUS SITUATION	See Table 8.10	P
	Components determined to be acceptable where used as a MEANS OF PROTECTION	RMF Reference to specific RISKS:	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		P

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
	a) Applicable safety requirements of a relevant IEC or ISO standard		P
	b) Requirements of this standard applied in the absence of a relevant IEC or ISO standard		P
4.9	A COMPONENT WITH HIGH-INTEGRITY CHARACTERISTICS provided and selected appropriately.....:	No COMPONENT WITH HIGH-INTEGRITY CHARACTERISTICS used	N/A
	RISK MANAGEMENT FILE includes an assessment to determine if the failure of components results in unacceptable RISK.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)		N/A
	Components identified and required to be COMPONENTS WITH HIGH INTEGRITY CHARACTERISTIC:	See Table 8.10 b	N/A
4.10	Power supply		P
4.10.1	ME EQUIPMENT is suitable for connection to indicated power source (select applicable)	Supply mains	P
4.10.2	Maximum rated voltage for ME EQUIPMENT intended to be connected to SUPPLY MAINS:		P
	- 250 V for HAND-HELD ME EQUIPMENT (V).....:		N/A
	- 250 V d.c. or single-phase a.c., or 500 V poly-phase a.c. for ME EQUIPMENT and ME SYSTEMS with a RATED input \leq 4 kVA (V).....:	Max rated 240 V single-phase a.c.	P
	- 500 V for all other ME EQUIPMENT and ME SYSTEMS		N/A
4.11	Power input		P
	Steady-state measured input of ME EQUIPMENT or ME SYSTEM at RATED voltage or voltage range and at operating settings indicated in instructions for use didn't exceed marked rating by more than 10%.....:	See appended Table 4.11	P
5	GENERAL REQUIREMENTS FOR TESTING ME EQUIPMENT		--
5.1	Test not performed when analysis indicated condition being tested was adequately evaluated by other tests or methods	All applicable tests were conducted	P
	RISK MANAGEMENT FILE identifies combinations of simultaneous independent faults that could result in a HAZARDOUS SITUATION. (ISO 14971 Cl. 5.2-5.5)		N/A
5.3	Tests conducted within the environmental conditions specified in technical description		P
	Temperature (°C), Relative Humidity (%)	0-40 °C, 0-95% R.H.	—
	Atmospheric Pressure (kPa)	54-106 kPa	—

IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
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).....:	100-240 V	P
	b) ME EQUIPMENT marked with a RATED frequency range tested at the least favourable frequency within the range (Hz)	50-60 Hz	P
	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.....:	One voltage range	P
	d) ME EQUIPMENT intended for only d.c. supply connection tested with d.c. and influence of polarity considered		N/A
	e)ME EQUIPMENT tested with alternative ACCESSORIES and components specified in ACCOMPANYING DOCUMENTS to result in the least favourable conditions		N/A
	f) ME EQUIPMENT connected to a separate power supply as specified in instructions for use		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.....:	Considered	P
	ME EQUIPMENT heated to a temperature between T and T + 4°C for at least 4 h and placed in a humidity chamber and ambient within 2 °C of T in range of +20°C to +32°C for indicated time	T = 25°C; 95% R.H. Time 168h	—
5.9	Determination of APPLIED PARTS and ACCESSIBLE PARTS		P
5.9.1	APPLIED PARTS identified by inspection and reference to ACCOMPANYING DOCUMENTS.....:	No APPLIED PARTS	N/A
5.9.2	ACCESSIBLE PARTS		P
5.9.2.1	Accessibility determined using standard test finger of Fig. 6	See Appended Table 5.9.2	P
5.9.2.2	Test hook of Fig. 7 inserted in all openings of ME EQUIPMENT and pulled with a force of 20 N for 10 s	No openings	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 actuating mechanisms used	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Conductive parts of actuating mechanisms not considered ACCESSIBLE PARTS when removal of handles, knobs, required use of a TOOL.....:		N/A
6	CLASSIFICATION OF ME EQUIPMENT AND ME SYSTEMS		--
6.2	CLASS I ME EQUIPMENT, externally powered	GTM961005P-*PD*-T3* GTM961005P-*PD*-T3A*	P
	CLASS II ME EQUIPMENT, externally powered	GTM961005P-*PD*-T2* GTM961005P-*PD*-T2A*	P
	INTERNALLY POWERED ME EQUIPMENT		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 PARTS	N/A
	TYPE BF APPLIED PART		N/A
	TYPE CF APPLIED PART		N/A
	DEFIBRILLATION-PROOF APPLIED PARTS		N/A
6.3	ENCLOSURES classified according to degree of protection against ingress of water and particulate matter as per IEC 60529.....:	IP22	P
6.4	ME EQUIPMENT or its parts intended to be sterilized classified according to method(s) of sterilization in instructions for use.....:		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		N/A
6.6	CONTINUOUS or Non-CONTINUOUS OPERATION	CONTINUOUS OPERATION	P
7	ME EQUIPMENT IDENTIFICATION, MARKING, AND DOCUMENTS		--
7.1.2	Legibility of Markings Test for Markings specified in Clause 7.2-7.6.....:	See Appended Table 7.1.2	P
7.1.3	Required markings can be removed only with a TOOL or by appreciable force, are durable and remain CLEARLY LEGIBLE during EXPECTED SERVICE LIFE of ME EQUIPMENT in NORMAL USE	See appended Tables 7.1.3 and 8.10	P
7.2	Marking on the outside of ME EQUIPMENT or ME EQUIPMENT parts		P
7.2.1	At least markings in 7.2.2, 7.2.5, 7.2.6, 7.2.10, and 7.2.13 were applied when size of EQUIPMENT, its part, an ACCESSORY, or ENCLOSURE did not permit application of all required markings	See copy of Marking Plate	P
	Remaining markings fully recorded in ACCOMPANYING DOCUMENTS	Marked on markings	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Markings applied to individual packaging when impractical to apply to ME EQUIPMENT		N/A
	Single use item marked.....:		N/A
7.2.2	ME EQUIPMENT marked with:		P
	– the name or trademark and contact information of the MANUFACTURER		P
	– a MODEL OR TYPE REFERENCE	See copy of Marking Plate	P
	– a serial number or lot or batch identifier; and		P
	– the date of manufacture or use by date		P
	Detachable components of the ME EQUIPMENT not marked; misidentification does not present an unacceptable risk, or		N/A
	RISK MANAGEMENT FILE includes an assessment of the RISKS relating to misidentification of all detachable parts.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.3)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	Detachable components of the ME EQUIPMENT are marked with the name or trademark of the MANUFACTURER, and	No such components	N/A
	– a MODEL OR TYPE REFERENCE		N/A
	Software forming part of a PEMS identified with a unique identifier.....:		N/A
7.2.3	Symbol 11 on Table D.1 used, optionally, advice to OPERATOR to consult ACCOMPANYING DOCUMENTS	Component only, to be evaluated in the final installation	N/A
	SAFETY SIGN 10 on Table D.2) used, advising OPERATOR that ACCOMPANYING DOCUMENTS must be consulted		N/A
7.2.4	ACCESSORIES marked with name or trademark and contact information of their MANUFACTURER, and		N/A
	- with a MODEL OR TYPE REFERENCE		N/A
	– a serial number or lot or batch identifier		N/A
	– the date of manufacture or use by date		N/A
	Markings applied to individual packaging when not practical to apply to ACCESSORIES		N/A
7.2.5	ME EQUIPMENT and ME SYSTEM intended to receive power from other equipment, provided with one of the following	Component, to be evaluated in the final installation	N/A
	- the name or trademark of the manufacturer of the other electrical equipment and type reference marked adjacent to the relevant connection point; or		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– Table D.2, SAFETY SIGN No. 10 adjacent to the relevant connection point and listing of the required details in the instructions for use; or		N/A
	– Special connector style used that is not commonly available on the market and listing of the required details in the instructions for use.		N/A
7.2.6	Connection to the Supply Mains		P
	Marking appearing on the outside of part containing SUPPLY MAINS connection and, adjacent to connection point		P
	For PERMANENTLY INSTALLED ME EQUIPMENT, NOMINAL supply voltage or range marked inside or outside of ME EQUIPMENT		N/A
	– RATED supply voltage(s) or RATED voltage range(s) with a hyphen (-) between minimum and maximum voltages (V, V-V).....:	100-240V	P
	Multiple RATED supply voltages or multiple RATED supply voltage ranges are separated by (V/V).....:		N/A
	– Nature of supply and type of current.....:		N/A
	Symbols 1-5, Table D.1 (used for same parameters).....:		P
	– RATED supply frequency or RATED frequency range in hertz.....:	50-60 Hz	P
	– Symbol 9 of Table D.1 used for CLASS II ME EQUIPMENT.....:	 for GTM961005P-*PD*-T2* and GTM961005P-*PD*-T2A*	P
7.2.7	RATED input in amps or volt-amps, (A, VA).....:	1.5 A	P
	RATED input in amps or volt-amps, or in watts when power factor exceeds 0.9 (A, VA, W).....:	Rated input in amps	P
	RATED input for one or more RATED voltage ranges provided for upper and lower limits of the range or ranges when the range(s) is/are greater than $\pm 10\%$ of the mean value of specified range (A, VA, W).....:		N/A
	Input at mean value of range marked when range limits do not differ by more than 10 % from mean value (A, VA, W).....:		N/A
	Marking includes long-time and most relevant momentary volt-ampere ratings when provided, each plainly identified and indicated in ACCOMPANYING DOCUMENTS (VA).....:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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).....:		N/A
7.2.8	Output connectors		P
7.2.8.2	Output connectors are marked, except for MULTIPLE SOCKET-OUTLETS or connectors intended for specified ACCESSORIES or equipment	Marked	P
	Rated Voltage (V), Rated Current (A).....:	See copies of marking plate	—
	Rated Power (W), Output Frequency (Hz).....:	See copies of marking plate	—
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.....:	IP22	P
7.2.10	Degrees of protection against electric shock as classified in 6.2 for all APPLIED PARTS marked with relevant symbols	No APPLIED PARTS	N/A
	TYPE B APPLIED PARTS with symbol 19 of Table D.1.....:		N/A
	TYPE BF APPLIED PARTS with symbol 20 of Table D.1:		N/A
	TYPE CF APPLIED PARTS with symbol 21 of Table D.1.....:		N/A
	DEFIBRILLATION-PROOF APPLIED PARTS marked with symbols 25-27 of Table D.1.....:		N/A
	Proper symbol marked adjacent to or on connector for APPLIED PART.....:		N/A
	SAFETY SIGN 2 of Table D.2 placed near relevant outlet.....:		N/A
	An explanation indicating protection of ME EQUIPMENT against effects of discharge of a cardiac defibrillator depends on use of proper cables included in instructions for use.....:		N/A
7.2.11	ME EQUIPMENT suitable for CONTINUOUS OPERATION	CONTINUOUS OPERATION	P
	DUTY CYCLE for ME EQUIPMENT intended for non-CONTINUOUS OPERATION appropriately marked to provide maximum “on” and “off” time.....:		N/A
7.2.12	Type and full rating of a fuse marked adjacent to ACCESSIBLE fuse-holder	No accessible fuse-holder	N/A
	Fuse type.....:		—
	Voltage (V) and Current (A) rating.....:		—
	Operating speed (s) and Breaking capacity.....:		—

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Clause	Requirement + Test	Result - Remark	Verdict
7.2.13	Physiological effects – SAFETY SIGN and warning statements		N/A
	Nature of HAZARD and precautions for avoiding or minimizing the associated RISK described in instructions for use..... (ISO 14971 Cl. 5.2-5.5, 6, 7.2)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
7.2.14	HIGH VOLTAGE TERMINAL DEVICES on the outside of ME EQUIPMENT accessible without the use of a TOOL marked with symbol 24 of Table D.1	No HIGH VOLTAGE TERMINAL DEVICES	N/A
7.2.15	Requirements for cooling provisions marked.....	No cooling	N/A
7.2.17	Packaging marked with special handling instructions for transport and/or storage.....	Component, to be evaluated in the final installation	N/A
	Permissible environmental conditions marked on outside of packaging.....		N/A
	Packaging marked with a suitable SAFETY SIGN indicating premature unpacking of ME EQUIPMENT could result in an unacceptable RISK.....		N/A
	RISK MANAGEMENT FILE includes the assessment to determine premature unpacking of ME EQUIPMENT or its parts could result in an unacceptable RISK..... (ISO 14971 Cl. 5.2-5.5, 6, 7.2)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	Packaging of sterile ME EQUIPMENT or ACCESSORIES marked sterile and indicates the methods of sterilization		N/A
7.2.18	RATED maximum supply pressure from an external source marked on ME EQUIPMENT adjacent to each input connector, and		N/A
	- the RATED flow rate also marked		N/A
7.2.19	Symbol 7 of Table D.1 marked on FUNCTIONAL EARTH TERMINAL.....	No FUNCTIONAL EARTH TERMINAL	N/A
7.2.20	Removable protective means marked to indicate the necessity for replacement when the function is no longer needed.....	Component, to be evaluated in the final installation	N/A
7.2.21	MOBILE ME EQUIPMENT marked with its mass including its SAFE WORKING LOAD in kilograms		N/A
7.3	Marking on the inside of ME EQUIPMENT or ME EQUIPMENT 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 elements	N/A
	A marking referring to ACCOMPANYING DOCUMENTS provided for heating elements or lamp-holders designed for heating lamps that can be changed only by SERVICE PERSONNEL using a TOOL		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
7.3.2	Symbol 24 of Table D.1, or SAFETY SIGN No.3 of Table D.2 used to mark presence of HIGH VOLTAGE parts.....:	No HIGH VOLTAGE parts	N/A
7.3.3	Type of battery and mode of insertion 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.....:		N/A
	A warning provided indicating replacement of lithium batteries or fuel cells when incorrect replacement would result in an unacceptable RISK		N/A
	RISK MANAGEMENT FILE includes an assessment to determine the replacement of lithium batteries or fuel cells leads to an HAZARDOUS SITUATION if replaced incorrectly.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.2)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	ACCOMPANYING DOCUMENTS contain a warning indicating the replacement of lithium batteries or fuel cells by inadequately trained personnel could result in a HAZARDOUS SITUATION.....:		N/A
7.3.4	Fuses, replaceable THERMAL CUT-OUTS and OVER-CURRENT RELEASES, accessible by use of a TOOL Identified	Specification adjacent to component	P
	Voltage (V) and Current (A) rating.....	250 V, 3.15 A	—
	Operating speed(s), size & breaking capacity....:	T	—
7.3.5	PROTECTIVE EARTH TERMINAL marked with symbol 6 of Table D.1	Approved appliance inlet	N/A
	Markings on or adjacent to PROTECTIVE EARTH TERMINALS not applied to parts requiring removal to make the connection, and remained visible after connection made		N/A
7.3.6	Symbol 7 of Table D.1 marked on FUNCTIONAL EARTH TERMINALS	No FUNCTIONAL EARTH TERMINALS	N/A
7.3.7	Terminals for supply conductors marked adjacent to terminals.....:	Approved appliance inlet	P
	Terminal markings included in ACCOMPANYING DOCUMENTS when ME EQUIPMENT too small to accommodate markings		N/A
	Terminals exclusively for neutral supply conductor in PERMANENTLY INSTALLED ME EQUIPMENT marked with Code 1 of Table D.3		N/A
	Marking for connection to a 3-phase supply, complies with IEC 60445		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Markings on or adjacent to electrical connection points not applied to parts requiring removal to make connection, and remained visible after connection made		N/A
7.3.8	“For supply connections, use wiring materials suitable for at least X °C” or equivalent, marked at the point of supply connections		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		P
7.4.1	The “on” & “off” positions of switch to control power to ME EQUIPMENT, including mains switch, marked with symbols 12 and 13 of Table D.1 or		N/A
	– indicated by an adjacent indicator light, or		N/A
	– indicated by other unambiguous means		N/A
	The “on” & “off” positions of switch to control power to parts of ME EQUIPMENT, marked with symbols 12 and 13 of Table D.1 or		N/A
	- marked with symbols 16 and 17 of Table D.1 or		N/A
	– indicated by an adjacent indicator light, or		N/A
	– indicated by other unambiguous means		N/A
	Switches that brings ME EQUIPMENT into “stand-by” may be indicated by symbol 29 of Table D.1		N/A
	The “on/off” positions of push button switch with bi-stable positions marked with symbol 14 of Table D.1, and		N/A
	– status indicated by adjacent indicator light		N/A
	– status indicated by other unambiguous means		N/A
	The “on/off” positions of push button switch with momentary on position marked with symbol 15 of Table D.1 or		N/A
	– status indicated by adjacent indicator light		N/A
	– status indicated by other unambiguous means		N/A
7.4.2	Different positions of control devices/switches indicated by figures, letters, or other visual means	No control devices/switches	N/A
	RISK MANAGEMENT FILE identifies controls where a change in setting during NORMAL USE results in an unacceptable RISK.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1, 7.2)	RMF Reference to specific RISKS: List of controls: (ISO14971 Cl.____)	N/A

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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.....:		N/A
	– or an indication of direction in which magnitude of the function changes		N/A
7.4.3	Numeric indications of parameters on ME EQUIPMENT expressed in SI units according to ISO 80000-1 except the base quantities listed in Table 1 expressed in the indicated units		P
	ISO 80000-1 applied for application of SI units, their multiples, and certain other units		P
	All Markings in Sub-clause 7.4 complied with tests and criteria of 7.1.2 and 7.1.3.....:	See Appended Tables 7.1.2 and 7.1.3.	P
7.5	SAFETY SIGNS		N/A
	SAFETY SIGN with established meaning used	No SAFETY SIGN	N/A
	RISK MANAGEMENT PROCESS identifies markings used to convey a warning, prohibition or mandatory action that mitigate a RISK not obvious to the OPERATOR.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.2)	RMF Reference to specific RISK & Marking: SAFETY SIGN Used: (ISO 14971 Cl. __)	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
	Safety notices include appropriate precautions or instructions on how to reduce RISK(S)		N/A
	SAFETY SIGNS including any supplementary text or symbols described in instructions for use		N/A
	- and in a language acceptable to the intended OPERATOR		N/A
7.6	Symbols		P
7.6.1	Meanings of symbols used for marking described in instructions for use.....:	Refer to ACCOMPANY DOCUMENTS for detail	P
7.6.3	Symbols used for controls and performance conform to the IEC or ISO publication where symbols are defined, as applicable		P
7.7	Colours of the insulation of conductors		P
7.7.1	PROTECTIVE EARTH CONDUCTOR identified by green and yellow insulation	No supply cords provided	N/A
7.7.2	Insulation on conductors inside ME EQUIPMENT forming PROTECTIVE EARTH CONNECTIONS identified by green and yellow at least at terminations	For models GTM961005P- *PD*-T3* and GTM961005P- *PD*-T3A*	P

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Clause	Requirement + Test	Result - Remark	Verdict
7.7.3	Green and yellow insulation identify only following conductors:		P
	– PROTECTIVE EARTH CONDUCTORS		N/A
	– conductors specified in 7.7.2		P
	– POTENTIAL EQUALIZATION CONDUCTORS		N/A
	– FUNCTIONAL EARTH CONDUCTORS		N/A
7.7.4	Neutral conductors of POWER SUPPLY CORDS are “light blue”	No supply cords provided, to be evaluated in the final installation	N/A
7.7.5	Colours of conductors in POWER SUPPLY CORDS in accordance with IEC 60227-1 or IEC 60245-1		N/A
7.8	Indicator lights and controls		P
7.8.1	Red indicator lights, not flashing used only for Warning		N/A
	Yellow indicator lights, not flashing used only for Caution		N/A
	Green indicator lights used only for Ready for use		P
	Red flashing used only for HIGH PRIORITY ALARM CONDITION, interruption of current workflow needed		N/A
	Yellow flashing used only MEDIUM PRIORITY ALARM CONDITION, re-planning of workflow needed		N/A
	Yellow or Cyan, not flashing used for LOW PRIORITY ALARM CONDITION, planning of future workflow needed.		N/A
	Other colours: Meaning other than red, yellow, cyan or green (colour, meaning).....:		N/A
7.8.2	Red used only for emergency control		N/A
7.9	ACCOMPANYING DOCUMENTS		P
7.9.1	ME EQUIPMENT accompanied by documents containing instructions for use, and a technical description	Provided and checked. Component, also to be checked in the final installation	P
	ACCOMPANYING DOCUMENTS identify ME EQUIPMENT by the following, as applicable:		P
	– Name or trade-name of MANUFACTURER and contact information for the RESPONSIBLE ORGANIZATION can be referred to.....:	GlobTek, Inc.	P
	– MODEL or TYPE REFERENCE.....:	Included	P

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Clause	Requirement + Test	Result - Remark	Verdict
	When ACCOMPANYING DOCUMENTS provided electronically, USABILITY ENGINEERING PROCESS includes instructions as to what is required in hard copy or as markings on ME EQUIPMENT		N/A
	ACCOMPANYING DOCUMENTS specify special skills, training, and knowledge required of OPERATOR or RESPONSIBLE ORGANIZATION and environmental restrictions on locations of use		N/A
	ACCOMPANYING DOCUMENTS written at a level consistent with education, training, and other needs of individuals for whom they are intended		P
7.9.2	Instructions for use include the required information		P
7.9.2.1	– use of ME EQUIPMENT as intended by the MANUFACTURER:		P
	– frequently used functions,	Component only, to be evaluated in the final installation	N/A
	– known contraindication(s) to use of ME EQUIPMENT		N/A
	- parts of the ME EQUIPMENT that are not serviced or maintained while in use with the patient		N/A
	– name or trademark and address of the MANUFACTURER		P
	– MODEL OR TYPE REFERENCE		P
	Instruction for use included the following when the PATIENT is an intended OPERATOR:	Component only, to be evaluated in the final installation	N/A
	– the PATIENT is an intended OPERATOR		N/A
	– warning against servicing and maintenance while the ME EQUIPMENT is in use		N/A
	- functions the PATIENT can safely use and, where applicable, which functions the PATIENT cannot safely use; and		N/A
	–maintenance the PATIENT can perform		N/A
	Classifications as in Clause 6, all markings per Clause 7.2, and explanation of SAFETY SIGNS and symbols marked on ME EQUIPMENT	Component only, to be evaluated in the final installation	N/A
	Instructions for use are in a language acceptable to the intended operator		P
7.9.2.2	Instructions for use include all warning and safety notices	Component only, to be evaluated in the final installation	N/A
	Warning statement for CLASS I ME EQUIPMENT included		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Warnings regarding significant RISKS of reciprocal interference posed by ME EQUIPMENT during specific investigations or treatments		N/A
	Information on potential electromagnetic or other interference and advice on how to avoid or minimize such interference		N/A
	Warning statement for ME EQUIPMENT supplied with an integral MULTIPLE SOCKET-OUTLET provided		N/A
	The RESPONSIBLE ORGANIZATION is referred to this standard for the requirements applicable to ME SYSTEMS		N/A
7.9.2.3	Statement on ME EQUIPMENT for connection to a separate power supply provided in instructions		N/A
7.9.2.4	Warning statement for mains- operated ME EQUIPMENT with additional power source not automatically maintained in a fully usable condition indicating the necessity for periodic checking or replacement of power source		N/A
	RISK MANAGEMENT FILE assesses the RISK resulting from leakage of batteries.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.2)	Specific RISKS: (ISO 14971 Cl. __)	N/A
	Where the RISK is unacceptable, the IFU includes a warning to remove the battery if the ME EQUIPMENT is not likely to be used for some time		N/A
	Specifications of replaceable INTERNAL ELECTRICAL POWER SOURCE when provided.....:		N/A
	Warning indicating ME EQUIPMENT must be connected to an appropriate power source when loss of power source would result in an unacceptable RISK.....:		N/A
7.9.2.5	Instructions for use include a description of ME EQUIPMENT, its functions, significant physical and performance characteristics together with the expected positions of OPERATOR, PATIENT, or other persons near ME EQUIPMENT in NORMAL USE		N/A
	Information provided on materials and ingredients PATIENT or OPERATOR is exposed to		N/A
	Restrictions specified on other equipment or NETWORK/DATA COUPLINGS, other than those forming part of an ME SYSTEM, to which a SIGNAL INPUT/OUTPUT PART may be connected		N/A
	APPLIED PARTS specified		N/A
7.9.2.6	Information provided indicating where the installation instructions may be found or information on qualified personnel who can perform the installation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
7.9.2.7	Instructions provided indicating not to position ME EQUIPMENT to make it difficult to operate the disconnection device		N/A
7.9.2.8	Necessary information provided for OPERATOR to bring ME EQUIPMENT into operation		N/A
7.9.2.9	Information provided to operate ME EQUIPMENT		N/A
	Meanings of figures, symbols, warning statements, abbreviations and indicator lights described in instructions for use		N/A
7.9.2.10	A list of all system messages, error messages, and fault messages provided with an explanation of messages including important causes and possible action(s) to be taken to resolve the problem indicated by the message		N/A
7.9.2.11	Information provided for the OPERATOR to safely terminate operation of ME EQUIPMENT		N/A
7.9.2.12	Information provided on cleaning, disinfection, and sterilization methods, and applicable parameters that can be tolerated by ME EQUIPMENT parts or ACCESSORIES specified		N/A
	Components, ACCESSORIES or ME EQUIPMENT marked for single use, except when required by MANUFACTURER to be cleaned, disinfected, or sterilized prior to use		N/A
7.9.2.13	Instructions provided on preventive inspection, calibration, maintenance and its frequency		N/A
	Information provided for safe performance of routine maintenance necessary to ensure continued safe use of ME EQUIPMENT		N/A
	Parts requiring preventive inspection and maintenance to be performed by SERVICE PERSONNEL identified including periods of application		N/A
	Instructions provided to ensure adequate maintenance of ME EQUIPMENT containing rechargeable batteries to be maintained by anyone other than SERVICE PERSONNEL		N/A
7.9.2.14	A list of ACCESSORIES, detachable parts, and materials for use with ME EQUIPMENT provided		N/A
	Other equipment providing power to ME SYSTEM sufficiently described		N/A
7.9.2.15	Disposal of waste products, residues, etc., and of ME EQUIPMENT and ACCESSORIES at the end of their EXPECTED SERVICE LIFE are identified in the instruction for us.....:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
7.9.2.16	Instructions for use include information specified in 7.9.3 or identify where it can be found (e.g. in a service manual)		N/A
7.9.2.17	Instruction for use for ME EQUIPMENT emitting radiation for medical purposes, indicate the nature, type, intensity and distribution of this radiation		N/A
7.9.2.18	The instructions for use for ME EQUIPMENT or ACCESSORIES supplied sterile indicate that they have been sterilized and the method of sterilization		N/A
	The instructions for use indicate the necessary instructions in the event of damage to the sterile packaging, and where appropriate, details of the appropriate methods of re-sterilization		N/A
7.9.2.19	The instructions for use contain a unique version identifier.....:	Version A.5	P
7.9.3	Technical description		P
7.9.3.1	All essential data provided for safe operation, transport, storage, and measures or conditions necessary for installing ME EQUIPMENT, and preparing it for use including		P
	-information required in 7.2		P
	-permissible environmental conditions of use including conditions for transport and storage..... :	-40°C-80 °C, 0-90% R.H.	P
	-characteristics of the ME EQUIPMENT, including range(s), accuracy, and precision of the displayed values or an indication where they can be found		P
	-special installation requirements such as the maximum permissible apparent impedance of SUPPLY MAINS		N/A
	-permissible range of values of inlet pressure and flow, and the chemical composition of cooling liquid		N/A
	-description of the means for checking the oil level in partially sealed oil filled ME EQUIPMENT or its parts		N/A
	-warning statement that addresses the HAZARDS that can result from unauthorized modification of the ME EQUIPMENT		P
	-information pertaining to ESSENTIAL PERFORMANCE and any necessary recurrent ESSENTIAL PERFORMANCE and BASIC SAFETY testing including details of the means, methods and recommended frequency		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Technical description separable from instructions for use contains required information, as follows		N/A
	-information required by 7.2		N/A
	–applicable classifications in Clause 6, warning and safety notices, and explanation of SAFETY SIGNS marked on ME EQUIPMENT		N/A
	– brief description of the ME EQUIPMENT, how the ME EQUIPMENT functions and its significant physical and performance characteristics; and		N/A
	a unique version identifier.....:	Version __	N/A
	MANUFACTURER'S optional requirements for minimum qualifications of SERVICE PERSONNEL documented in technical description		N/A
7.9.3.2	The technical description contains the following required information		N/A
	–type and full rating of fuses used in SUPPLY MAINS external to PERMANENTLY INSTALLED ME EQUIPMENT.....:		N/A
	– a statement for ME EQUIPMENT with a non-DETACHABLE POWER SUPPLY CORD if POWER SUPPLY CORD is replaceable by SERVICE PERSONNEL, and		N/A
	– instructions for correct replacement of interchangeable or detachable parts specified by MANUFACTURER as replaceable by SERVICE PERSONNEL, and		N/A
	RISK MANAGEMENT FILE includes an assessment to determine if replacement of components results in any unacceptable RISKS.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.__)	N/A
	– warnings identifying nature of HAZARD when replacement of a component could result in an unacceptable RISK, and when replaceable by SERVICE PERSONNEL all information necessary to safely replace the component		N/A
7.9.3.3	Technical description indicates, MANUFACTURER will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to SERVICE PERSONNEL in parts repair		P
7.9.3.4	Means used to comply with requirements of 8.11.1 clearly identified in technical description		P

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Clause	Requirement + Test	Result - Remark	Verdict
8	PROTECTION AGAINST ELECTRICAL HAZARDS FROM ME EQUIPMENT		--
8.1	Limits specified in Clause 8.4 not exceeded for ACCESSIBLE PARTS and APPLIED PARTS in NORMAL or SINGLE FAULT CONDITIONS	The following needs to be evaluated in the final installation: -interruption of any one power-carrying conductor - unintended movement of a component -accidental detachment of conductors and connectors	P
	RISK MANAGEMENT FILE identifies conductors and connectors where breaking free results in a HAZARDOUS SITUATION.....: (ISO 14971 Cl. 5.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
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		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	Connection to an external d.c. power source		N/A
	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		N/A
	ME EQUIPMENT connected with correct polarity maintained BASIC SAFETY and ESSENTIAL PERFORMANCE		N/A
	Protective devices that can be reset by anyone without a TOOL returns to NORMAL CONDITION on reset		N/A
8.3	Classification of APPLIED PARTS		N/A
	a) APPLIED PART specified in ACCOMPANYING DOCUMENTS as suitable for DIRECT CARDIAC APPLICATION is TYPE CF	No APPLIED PART	N/A
	b) An APPLIED PART provided with a PATIENT CONNECTION intended to deliver electrical energy or an electrophysiological signal to or from PATIENT is TYPE BF or CF APPLIED PART		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	c) An APPLIED PART not covered by a) or b) is a TYPE B, BF, or CF		N/A
8.4	Limitation of voltage, current or energy		P
8.4.2	ACCESSIBLE PARTS and APPLIED PARTS		P
	a) Currents from, to, or between PATIENT CONNECTIONS did not exceed limits for PATIENT LEAKAGE CURRENT & PATIENT AUXILIARY CURRENT.....:	See appended Table 8.7	N/A
	b) LEAKAGE CURRENTS from, to, or between ACCESSIBLE PARTS did not exceed limits for TOUCH CURRENT.....:	See appended Table 8.7	P
	c) Limits specified in b) not applied to parts when probability of a connection to a PATIENT, directly or through body of OPERATOR, is negligible in NORMAL USE, and the OPERATOR is appropriately instructed		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	N/A
	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	N/A
	Limits in b) does not apply to SIP/SOP connectors and separate power supply connectors if the voltage measured is less than or equal to 60 V d.c. or 42,4 V peak a.c	See appended Table 8.4.2	N/A
	d) Voltage and energy limits specified in c) above also applied to the following:		N/A
	– internal parts touchable by test pin in Fig 8 inserted through an opening in an ENCLOSURE; and		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 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		N/A
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		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	P
	When voltage exceeded 60 V, calculated or measured stored charge didn't exceed 45 μ C.....:		N/A
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 45 μ C.....:	See appended Table 8.4.4	N/A
	A device manually discharging capacitors used when automatic discharging was not possible and ACCESS COVERS could be removed only with aid of a TOOL		N/A
	Capacitor(s) and connected circuitry marked with symbol 24 of Table D.1, and manual discharging device specified in technical description.....:		N/A
8.5	Separation of parts		P
8.5.1	MEANS OF PROTECTION (MOP)		P
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	Two MOP provided between MAINS PARTS and secondary output terminal /plastic enclosure	P
	A MEANS OF PROTECTION protecting APPLIED PARTS or parts identified by 4.6 as parts subject to the same requirements, considered as MEANS OF PATIENT PROTECTION.....:		N/A
	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		P
	Components and wiring forming a MEANS OF PROTECTION comply with 8.10		P
8.5.1.2	MEANS OF PATIENT PROTECTION (MOPP)		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Solid insulation forming a MEANS OF PATIENT PROTECTION complied with dielectric strength test.....:	See appended Table 8.8.3	P
	CREEPAGE and CLEARANCES forming a MEANS OF PATIENT PROTECTION complied with Table 12		P
	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF PATIENT PROTECTION complied with Cl. 8.6		P
	Y1 or Y2 capacitor complying with standard IEC 60384-14 considered one MEANS OF PATIENT PROTECTION	See appended Tables 8.8.3 and 8.10	P
	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.....:		N/A
	Two capacitors used in series, each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance		P
	Voltage _{Total Working} (V) and C _{Nominal} (μF).....:	Min. 250V, 2200pF	—
	Optocouplers complying with IEC 60747-5-5:2007, or a later edition. Considered equivalent to requirements in 8.8.2 and 8.9.3	See table 8.10	
	Measurement of Air Clearance and Creepage distance on the outside	See insulation table	
	Dielectric strength test across optocoupler	See table 8.8.3	
8.5.1.3	MEANS OF OPERATOR PROTECTION (MOOP)		P
	Solid insulation forming a MEANS OF OPERATOR PROTECTION complied with:		P
	– dielectric strength test	See appended Table 8.8.3	P
	– requirements of IEC 60950-1:2005, IEC 60950-1:2005/A1:2009 and IEC 60950:2005/A2:2013 or requirements of IEC 62368-1:2018 for INSULATION CO-ORDINATION		N/A
	CREEPAGE and CLEARANCES forming a MEANS OF OPERATOR PROTECTION complied with:		P
	– limits of Tables 13 to 16 (inclusive); or		P
	– requirements of IEC 60950-1:2005, IEC 60950-1:2005/A1:2009 and IEC 60950:2005/A2:2013 or requirements of IEC 62368-1:2018 for INSULATION CO-ORDINATION		N/A
	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF OPERATOR PROTECTION complied with Cl. 8.6		P

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Clause	Requirement + Test	Result - Remark	Verdict
	– or with requirements and tests of IEC 60950-1:2005, IEC 60950-1:2005/A1:2009 and IEC 60950:2005/A2:2013 or requirements of IEC 62368-1:2018 for protective earthing.....:	See Attachment No. ____	N/A
	A Y2 (IEC 60384-14) capacitor is considered one MEANS OF OPERATOR PROTECTION.....:	See appended Tables 8.8.3 and 8.10	N/A
	A Y1 (IEC 60384-14) capacitor is considered two MEANS OF OPERATOR PROTECTION.....:	See appended Tables 8.8.3 and 8.10	P
	Two capacitors used in series each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance		P
	Voltage Total Working (V) and C Nominal (µF).....:		—
	Optocouplers complying with IEC 60747-5-5:2007, or a later edition. Considered equivalent to requirements in 8.8.2 and 8.9.3	See table 8.10	
	Measurement of Air Clearance and Creepage distance on the outside	See insulation table	
	Dielectric strength test across optocoupler	See table 8.8.3	
	Points and applied parts at which impedances of components, CREEPAGE, CLEARANCES, PROTECTIVE EARTH CONNECTIONS or insulation, prevent ACCESSIBLE PARTS from exceeding limits in 8.4 were examined whether a failure at any of these points is to be regarded as a NORMAL or SINGLE FAULT CONDITION		P
8.5.2	Separation of PATIENT CONNECTIONS		N/A
8.5.2.1	PATIENT CONNECTIONS of F-TYPE APPLIED PART separated from all other parts by equivalent to one MEANS OF PATIENT PROTECTION for a WORKING VOLTAGE equal to the MAX. MAINS VOLTAGE.....:	No PATIENT CONNECTION	N/A
	Separation requirement not applied between multiple functions of a single F-TYPE APPLIED PART		N/A
	PATIENT CONNECTIONS treated as one APPLIED PART in the absence of electrical separation between PATIENT CONNECTIONS of same or another function		N/A
	MANUFACTURER has defined if multiple functions are to be considered as all within one APPLIED PART or as multiple APPLIED PARTS.....:		N/A
	Classification as TYPE BF, CF, or DEFIBRILLATION-PROOF applied to one entire APPLIED PART		N/A
	LEAKAGE CURRENT tests conducted per 8.7.4.....:	See appended Table 8.7	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Dielectric strength test conducted per 8.8.3.....:	See appended Table 8.8.3	N/A
	CREEPAGE and CLEARANCES measured	Refer to Insulation Diagram	N/A
	A protective device connected between PATIENT CONNECTIONS of an F-TYPE APPLIED PART and ENCLOSURE to protect against excessive voltages did not operate below 500 V r.m.s		N/A
8.5.2.2	PATIENT CONNECTIONS of a TYPE B APPLIED PART not PROTECTIVELY EARTHED are separated by one MEANS OF PATIENT PROTECTION from metal ACCESSIBLE PARTS not PROTECTIVELY EARTHED....:	No PATIENT CONNECTION	N/A
	– except when metal ACCESSIBLE PART is physically close to APPLIED PART and can be regarded as a part of APPLIED PART; and		N/A
	– RISK that metal ACCESSIBLE PART will make contact with a source of voltage or LEAKAGE CURRENT above permitted limits is acceptably low. In this case 8.7.4.7 d) does not apply		N/A
	LEAKAGE CURRENT tests conducted per 8.7.4....:	See appended Table 8.7	N/A
	Dielectric strength test conducted per 8.8.3	See appended Table 8.8.3	N/A
	Relevant CREEPAGE and CLEARANCES measured	Refer to Insulation Diagram	N/A
	RISK MANAGEMENT FILE includes an assessment of the RISK of metal ACCESSIBLE PARTS contacting a source of voltage or LEAKAGE CURRENT above the limits.....: (ISO 14971 Cl. 5.2-5.5, 6)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
8.5.2.3	A connector on a PATIENT lead or PATIENT cable located at the end of the lead or cable distal from PATIENT, with conductive part not separated from all PATIENT CONNECTIONS by one MEANS OF PATIENT PROTECTION for a WORKING VOLTAGE equal to MAXIMUM MAINS VOLTAGE		N/A
	- cannot be connected to earth or hazardous voltage while the PATIENT CONNECTIONS are in contact with PATIENT.....:		N/A
	– conductive part of connector not separated from all PATIENT CONNECTIONS did not come into contact with a flat conductive plate of not less than 100 mm diameter		N/A
	– CLEARANCE between connector pins and a flat surface is at least 0.5 mm		N/A
	– conductive part pluggable into a mains socket protected from contacting parts at MAINS VOLTAGE by insulation with a CREEPAGE DISTANCE of at least 1.0 mm, a 1500 V dielectric strength and complying with 8.8.4.1		N/A
	– required test finger did not make electrical contact with conductive part when applied against access openings with a force of 10 N,		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test finger test (10 N).....:	See appended Table 5.9.2	N/A
	Except when RISK MANAGEMENT PROCESS includes an assessment of RISKS resulting from contact with objects other than mains sockets or flat surfaces.....: (ISO 14971 Cl. 5.2-5.5, 6)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
8.5.4	WORKING VOLTAGE		P
	– Input supply voltage to ME EQUIPMENT was RATED voltage or voltage within RATED range resulting in highest measured value (V).....:	240 V	P
	– 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).....:		N/A
	– 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	P
	– Intentional or accidental earthing of PATIENT regarded as a NORMAL CONDITION for WORKING VOLTAGE involving a PATIENT CONNECTION not connected to earth		N/A
	– WORKING VOLTAGE between PATIENT CONNECTIONS of an F-TYPE APPLIED PART and ENCLOSURE was highest voltage appearing across insulation in NORMAL USE including earthing of any part of APPLIED PART (V).....:		N/A
	– WORKING VOLTAGE for DEFIBRILLATION-PROOF APPLIED PARTS determined disregarding possible presence of defibrillation voltages		N/A
	– WORKING VOLTAGE was equal to resonance voltage in case of motors provided with capacitors between the point where a winding and a capacitor are connected together and a terminal for external conductors (V).....:		N/A
8.5.5	DEFIBRILLATION-PROOF APPLIED PARTS	No DEFIBRILLATION-PROOF APPLIED PARTS	N/A
8.5.5.1	Classification “DEFIBRILLATION-PROOF APPLIED PART” applied to one APPLIED PART in its entirety		N/A
	Isolation of PATIENT CONNECTIONS of a DEFIBRILLATION-PROOF APPLIED PART from other parts of ME EQUIPMENT accomplished as follows:		N/A
	a) No hazardous electrical energies appear during a discharge of cardiac defibrillator	See appended Table 8.5.5.1a	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) ME EQUIPMENT complied with relevant requirements of this standard, providing BASIC SAFETY and ESSENTIAL PERFORMANCE following exposure to defibrillation voltage, and recovery time stated in ACCOMPANYING DOCUMENTS.....:	See appended Table 8.5.5.1b	N/A
8.5.5.2	Means provided to limit energy delivered to a 100 Ω load.....:	See appended Table 8.5.5.2	N/A
8.6	Protective and functional earthing and potential equalization of ME EQUIPMENT		P
8.6.1	Requirements of 8.6.2 to 8.6.8 applied		P
	Parts complying with IEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009 and IEC 60950-1:2005/AMD2:2013 or IEC 62368-1:2018 for protective earthing and serving as MEANS OF OPERATOR PROTECTION but not PATIENT PROTECTION exempted from requirements of 8.6.2 to 8.6.8		N/A
8.6.2	PROTECTIVE EARTH TERMINAL is suitable for connection to an external protective earthing system by a PROTECTIVE EARTH CONDUCTOR in a POWER SUPPLY CORD and a suitable plug or by a FIXED PROTECTIVE EARTH CONDUCTOR.....:	Approved appliance inlet	P
	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		P
	Screws for internal PROTECTIVE EARTH CONNECTIONS completely covered or protected against accidental loosening from outside.....:		N/A
	Earth pin of APPLIANCE INLET forming supply connection to ME EQUIPMENT regarded as PROTECTIVE EARTH TERMINAL		P
	PROTECTIVE EARTH TERMINAL not used for mechanical connection between different parts of ME EQUIPMENT or securing components not related to protective or functional earthing		P
8.6.3	PROTECTIVE EARTH CONNECTION not used for a moving part,	No moving parts	P
	except when MANUFACTURER demonstrated in RISK MANAGEMENT FILE connection will remain reliable during EXPECTED SERVICE LIFE: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to proof of reliability: (ISO 14971 Cl. __)	N/A
8.6.4	a) PROTECTIVE EARTH CONNECTIONS carried fault currents reliably and without excessive voltage drop.....:	See appended Table 8.6.4	P

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Clause	Requirement + Test	Result - Remark	Verdict
	b) Allowable TOUCH CURRENT and PATIENT LEAKAGE CURRENT in SINGLE FAULT CONDITION were not exceeded, when impedance of PROTECTIVE EARTH CONNECTIONS exceeded values in 8.6.4 a) and Table 8.6.4, due to limited current capability of relevant circuits.....:	See appended Table 8.6.4 & Clause 8.7	P
	DETACHABLE POWER SUPPLY CORD specified by manufacturer or delivered with product		N/A
8.6.5	Surface coatings		P
	Poorly conducting surface coatings on conductive elements removed at the point of contact		P
	Coating not removed when requirements for impedance and current-carrying capacity met		N/A
8.6.6	Plugs and sockets		P
	PROTECTIVE EARTH CONNECTION where connection between SUPPLY MAINS and ME EQUIPMENT or between separate parts of ME EQUIPMENT made via a plug and socket was made before and interrupted after supply connections		P
	- applied also where interchangeable parts are PROTECTIVELY EARTHED		N/A
8.6.7	Terminal for connection of a POTENTIAL EQUALIZATION CONDUCTOR		N/A
	– Terminal is accessible to OPERATOR with ME EQUIPMENT in any position of NORMAL USE		N/A
	–accidental disconnection avoided in NORMAL USE		N/A
	– Terminal allows conductor to be detached without a TOOL		N/A
	– Terminal not used for a PROTECTIVE EARTH CONNECTION		N/A
	– Terminal marked with symbol 8 of Table D.1		N/A
	– Instructions for use contain information on function and use of POTENTIAL EQUALIZATION CONDUCTOR together with a reference to requirements of this standard		N/A
	POWER SUPPLY CORD does not incorporate a POTENTIAL EQUALIZATION CONDUCTOR		N/A
8.6.8	FUNCTIONAL EARTH TERMINAL not used to provide a PROTECTIVE EARTH CONNECTION		N/A
8.6.9	Class II ME EQUIPMENT		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Third conductor of POWER SUPPLY CORD connected to protective earth contact of MAINS PLUG provided with CLASS II ME EQUIPMENT with isolated internal screens used as functional earth connection to the screen's FUNCTIONAL EARTH TERMINAL, coloured green and yellow		N/A
	ACCOMPANYING DOCUMENTS include a statement that the third conductor in the POWER SUPPLY CORD is only a functional earth.		N/A
	Two MEANS OF PROTECTION provided between insulation of internal screens and all internal wiring connected to them and ACCESSIBLE PARTS		P
8.7	LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENTS		P
8.7.1	a) Electrical isolation providing protection against electric shock limits currents to values in 8.7.3.....:	See appended Tables 8.7	P
	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	P
8.7.2	Allowable values specified in 8.7.3 applied under SINGLE FAULT CONDITIONS of 8.1 b), except		P
	– where insulation used in conjunction with a PROTECTIVE EARTH CONNECTION, insulation short circuited only under conditions in 8.6.4 b)		P
	– the only SINGLE FAULT CONDITION for EARTH LEAKAGE CURRENT was interruption of one supply conductor at a time		P
	– LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENT not measured in SINGLE FAULT CONDITION of short circuiting of one constituent part of DOUBLE INSULATION		N/A
	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		N/A
8.7.3	Allowable Values		P
	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	P
	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.....:	No applied part	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	c) TOUCH CURRENT did not exceed 100µA in NORMAL CONDITION and 500µA in SINGLE FAULT CONDITION (I _{TNC} , I _{TSFC}).....:	See appended Table 8.7	P
	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	P
	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.....:	See appended Table 8.7	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	P
	f) LEAKAGE CURRENTS flowing in a FUNCTIONAL EARTH CONDUCTOR in a non-PERMANENTLY INSTALLED ME EQUIPMENT are 5 mA in NORMAL CONDITION, 10 mA in SINGLE FAULT CONDITION.....:	See appended Table 8.7	N/A
8.7.4	LEAKAGE and PATIENT AUXILIARY CURRENTS measurements.....:	See appended Table 8.7	P
8.8	Insulation		P
8.8.1	Insulation relied on as MEANS OF PROTECTION, including REINFORCED INSULATION subjected to testing		P
	Insulation exempted from test (complies with clause 4.8)		P
	Insulation forming MEANS OF OPERATOR PROTECTION and complying with IEC 60950-1 for INSULATION CO-ORDINATION not tested as in 8.8		N/A
8.8.2	Distance through solid insulation or use of thin sheet material		P
	Solid insulation forming SUPPLEMENTARY or REINFORCED INSULATION for a PEAK WORKING VOLTAGE greater than 71 V provided with:		P
	a) 0.4 mm, min, distance through insulation, or		P
	b) does not form part of an ENCLOSURE and not subject to handling or abrasion during NORMAL USE, and comprised of:	Insulation tapes	P
	– at least two layers of material, each passed the appropriate dielectric strength test.....:	See appended Table 8.8.3	P
	– or three layers of material, for which all combinations of two layers together passed the appropriate dielectric strength test.....:	See appended Table 8.8.3	N/A
	Dielectric strength test for one or two layers was same as for one MEANS OF PROTECTION for SUPPLEMENTARY INSULATION		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Dielectric strength test for one or two layers was same as for two MEANS OF PROTECTION for REINFORCED INSULATION		P
	BASIC, SUPPLEMENTARY, and REINFORCED INSULATION required between windings of wound components separated by interleaved insulation complying with a) or b), or both, except when		N/A
	c) Wire with solid insulation, other than solvent based enamel, complying with a)		N/A
	d) Wire with multi-layer extruded or spirally wrapped insulation complying with b) and complying with Annex L		N/A
	e) Finished wire with spirally wrapped or multi-layer extruded insulation, complying with Annex L	Approved secondary insulated winding in transformer	P
	– BASIC INSULATION: minimum two wrapped layers or one extruded layer		N/A
	– SUPPLEMENTARY INSULATION: minimum two layers, wrapped or extruded		N/A
	– REINFORCED INSULATION: minimum three layers, wrapped or extruded		P
	In d) and e), for spirally wrapped insulation with CREEPAGE DISTANCES between layers less than in Table 12 or 16 (Pollution Degree 1) depending on type of insulation, path between layers sealed as a cemented joint in 8.9.3.3 and test voltages of TYPE TESTS in L.3 equal 1.6 times of normal values		N/A
	Protection against mechanical stress provided where two insulated wires or one bare and one insulated wire are in contact inside wound component, crossing at an angle between 45° and 90° and subject to winding tension.....:	Separated by Teflon tube and insulation tape	P
	Finished component complied with routine dielectric strength tests of 8.8.3.....:	Verified by manufacturer	P
	Tests of Annex L not repeated since material data sheets confirm compliance.....:	See Table 8.10 and Material Information Attachment	P
8.8.3	Dielectric Strength		P
	Solid insulating materials with a safety function withstood dielectric strength test voltages	See appended Table 8.8.3	P
8.8.4	Insulation other than wire insulation		P
8.8.4.1	Resistance to heat retained by all insulation and insulating partition walls during EXPECTED SERVICE LIFE of ME EQUIPMENT		P
	ME EQUIPMENT and design documentation examined.....:	Considered	P

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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.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	To be evaluated in the final installation	N/A
	Satisfactory evidence of compliance provided by manufacturer for resistance to heat.....:	See Attachment No.____	N/A
	Tests conducted in absence of satisfactory evidence for resistance to heat.....:		N/A
	a) ENCLOSURE and other external parts of insulating material, except insulation of flexible cords and parts of ceramic material, subjected to ball-pressure test using Fig 21 apparatus.....:	See appended Table 8.8.4.1	P
	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 appended Table 8.8.4.1	P
	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		P
8.8.4.2	Resistance to environmental stress		P
	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		P
	Ceramic and similar materials not tightly sintered, and beads alone not used as SUPPLEMENTARY OF REINFORCED INSULATION		N/A
	Insulating material with embedded heating conductors considered as one MEANS OF PROTECTION but not two MEANS OF PROTECTION		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		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		N/A
8.9	CREEPAGE DISTANCES and AIR CLEARANCES		P
8.9.1.1	CREEPAGE DISTANCES and AIR CLEARANCES are equal to or greater than values in Tables 12 to 16 (inclusive).....:	Refer to Insulation Diagram	P

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Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
8.9.1.16	Conductive coatings applied to non-metallic surfaces, do not result in flaking or peeling reducing any AIR CLEARANCE or CREEPAGE DISTANCE	See attached documentation	N/A
8.9.2	a) Short circuiting of each single one of CREEPAGE DISTANCES and CLEARANCES in turn did not result in a HAZARDOUS SITUATION, min CREEPAGE and CLEARANCES not applied.....:	See appended Table 8.9.2	P
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		N/A
	Thermal cycling, humidity preconditioning, and dielectric strength tests		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 (cl. 8.8.3 at 1,6 x test voltage).....:	See appended Table 8.9.3.2	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		N/A
	A winding of solvent-based enamelled wire replaced for the test by a metal foil or by a few turns of bare wire placed close to cemented joint, and three samples tested as follows:		N/A
	– One sample subjected to thermal cycling PROCEDURE of 8.9.3.4, and immediately after the last period at highest temperature during thermal cycling followed by dielectric strength test of cl. 8.8.3 at 1.6 x the test voltage	See appended Table 8.9.3.3	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 cl. 8.8.3 at 1.6 times the test voltage		N/A
8.9.4	Minimum spacing of grooves transvers to the CREEPAGE DISTANCES considered a MEANS OF OPERATOR PROTECTION adjusted based on pollution degree	Pollution degree: 2	P
	Force was applied between bare conductors and outside metal enclosure when measuring CREEPAGE DISTANCES and AIR CLEARANCES	Refer to Insulation Diagram supplemental information for location and force used	P

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Clause	Requirement + Test	Result - Remark	Verdict
8.10	Components and wiring		P
8.10.1	Components of ME EQUIPMENT likely to result in an unacceptable RISK by their movements mounted securely.....:	Considered	P
	RISK MANAGEMENT FILE includes an assessment of RISKS related to unwanted movement of components.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
8.10.2	Conductors and connectors of ME EQUIPMENT adequately secured or insulated to prevent accidental detachment.....:		P
	Stranded conductors are not solder-coated when secured by clamping means to prevent HAZARDOUS SITUATIONS		P
8.10.3	Interconnecting flexible cords detachable without a TOOL used provided with means for connection to comply with requirements for metal ACCESSIBLE PARTS when a connection is loosened or broken	See appended Table 5.9.2	N/A
8.10.4	Cord-connected HAND-HELD parts and cord-connected foot-operated control devices		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		N/A
8.10.4.2	Connection and anchorage of a flexible cord to a HAND-HELD or foot-operated control device of ME EQUIPMENT, at both ends of the cable to the control device, complies with the requirements for POWER SUPPLY CORDS in Cl. 8.11.3		N/A
	Other HAND-HELD parts, if disturbance or breaking of one or more of the connections could result in a HAZARDOUS SITUATION, also comply with tests of Cl. 8.11.3		N/A
8.10.5	Mechanical protection of wiring		P
	a) Internal cables and wiring adequately protected against contact with a moving part or from friction at sharp corners and edges.....:	No moving parts, no sharp corners or edges,	P
	b) Wiring, cord forms, or components are not likely to be damaged during assembly or during opening or closing of ACCESS COVERS		P
8.10.6	Guiding rollers prevent bending of movable insulated conductors around a radius of less than five times the outer diameter of the lead		N/A
8.10.7	a) Insulating sleeve adequately secured.....:	See appended Table 8.10	P

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	c) Insulated conductors of ME EQUIPMENT subject to temperatures exceeding 70 °C.....:	See appended Table 8.10	P
8.11	MAINS PARTS, components and layout		P
8.11.1	a) ME EQUIPMENT provided with means of electrically isolating its circuits from SUPPLY MAINS simultaneously on all poles.....:	Approved appliance inlet is provided, and no supply cords are provided.	P
	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)		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		N/A
	- the isolation device specified in the ACCOMPANYING DOCUMENTS		P
	b) Means of isolation incorporated in ME EQUIPMENT, or if external, described in technical description	See appended Table 8.10	N/A
	c) A SUPPLY MAINS switch used to comply with 8.11.1 a) complies with CREEPAGE / CLEARANCES for a MAINS TRANSIENT VOLTAGE of 4 kV.....:	See appended Table 8.10	N/A
	d) A SUPPLY MAINS switch not incorporated in a POWER SUPPLY CORD or external flexible lead		N/A
	e) Actuator of a SUPPLY MAINS switch used to comply with 8.11.1 a) complies with IEC 60447		N/A
	f) A suitable plug device used in non-PERMANENTLY INSTALLED ME EQUIPMENT with no SUPPLY MAINS SWITCH.....:	See appended Table 8.10	N/A
	g) A fuse or a semiconductor device not used as an isolating means		P
	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		P

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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		N/A
	A clear warning notice is marked on outside of ME EQUIPMENT to indicate it exceeds allowable touch voltage		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 applied		N/A
8.11.2	MULTIPLE SOCKET-OUTLETS integral with ME EQUIPMENT complied with 16.2 d), second dash; and 16.9.2		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 cords are provided, to be evaluated in the final installation	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):	See appended Table 8.10	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	See appended Table 8.10	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.....		N/A
	For ME EQUIPMENT utilizing POWER SUPPLY CORDS and operating at currents greater than 63 A, apply the electrical regulations appropriate for the jurisdiction in which the ME EQUIPMENT is to be used.		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	See appended Table 8.10	P
8.11.3.5	Cord anchorage		N/A
	a) Conductors of POWER SUPPLY CORD provided with strain relief and insulation protected from abrasion at point of entry to ME EQUIPMENT or a MAINS CONNECTOR by a cord anchorage	Appliance inlet provided	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) Cord anchorage of POWER SUPPLY CORD is an 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		N/A
	c) Cord anchorage prevents cord from being clamped by a screw bearing directly on cord insulation		N/A
	d) Screws to be operated when replacing POWER SUPPLY CORD do not serve to secure any components		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		N/A
	f) Cord anchorage prevents POWER SUPPLY CORD from being pushed into ME EQUIPMENT or MAINS CONNECTOR		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.....	See appended Table 8.11.3.5	N/A
	Cord subjected to a torque in Table 18 for one minute 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 protected against excessive bending at inlet opening of equipment		N/A
	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).....:	See appended Table 8.11.3.6	N/A
	Cord guard of temperature-sensitive material tested at 23 °C ± 2 °C, and flat cords bent in the plane of least resistance		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Curvature of the cord radius, immediately after mass attached, was not less than 1.5 x D	See appended Table 8.11.3.6	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 provided with MAINS TERMINAL DEVICES ensuring reliable connection	No mains terminal device	N/A
	Terminals alone are not used to keep conductors in position		N/A
	Terminals of components other than terminal blocks complying with requirements of this Clause and marked accordingly used as terminals intended for external conductors		N/A
	Screws and nuts clamping external conductors do not serve to secure any other component		N/A
8.11.4.2	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		N/A
	d) MAINS TERMINAL DEVICES not accessible without use of a TOOL		N/A
	e) MEANS OF PROTECTION are not short circuited when one end of a flexible conductor with NOMINAL cross-sectional area is stripped 8 mm and a single free wire is bent in each possible direction		N/A
8.11.4.3	Internal wiring not subjected to stress and CREEPAGE and CLEARANCES not reduced after fastening and loosening a conductor of largest cross-sectional area 10 times		N/A
8.11.4.4	Terminals with clamping means for a rewirable flexible cord did not require special preparation of conductors and conductors were not damaged and did not slip out when clamping means tightened		N/A
8.11.4.5	Adequate space provided inside ME EQUIPMENT designed for FIXED wiring or a rewirable POWER SUPPLY CORD to allow for connection of conductors		N/A
	Correct connection and positioning of conductors before ACCESS COVER verified by an installation test		N/A
8.11.5	Mains fuses and OVER-CURRENT RELEASES		P
	A fuse or OVER-CURRENT RELEASE provided in each supply lead for CLASS I and CLASS II ME EQUIPMENT with a functional earth connection.....	See appended Table 8.10	P

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Clause	Requirement + Test	Result - Remark	Verdict
	- in at least one supply lead for other single-phase CLASS II ME EQUIPMENT.....:	Provided	P
	– neutral conductor not fused for PERMANENTLY INSTALLED ME EQUIPMENT		N/A
	– fuses or OVER-CURRENT RELEASES omitted due to provision of two MEANS OF PROTECTION between all parts within MAINS PART		P
	Protective devices have adequate breaking capacity based on MANUFACTURER'S expectation of the highest branch circuit current and/or prospective short circuit current:	See appended Table 8.10	P
	A fuse or OVER-CURRENT RELEASE not provided in a PROTECTIVE EARTH CONDUCTOR		N/A
	Justification for omission of fuses or OVER-CURRENT RELEASES documented.....:	Only component, to be evaluated in the final installation	N/A
8.11.6	Internal wiring of the MAINS PART		P
	a) Cross-sectional area of internal wiring in a MAINS PART between MAINS TERMINAL DEVICE or APPLIANCE INLET and protective devices suitable..	No mains internal wiring	N/A
	b) Cross-sectional area of other wiring in MAINS PART and sizes of tracks on printed wiring circuits are sufficient.....:	See appended Table 8.10 for details	P
9	PROTECTION AGAINST MECHANICAL HAZARDS OF ME EQUIPMENT AND ME SYSTEMS		--
9.2	HAZARDS associated with moving parts		N/A
9.2.1	When ME EQUIPMENT with moving parts PROPERLY INSTALLED, used per ACCOMPANYING DOCUMENTS or under foreseeable misuse, RISKS associated with moving parts reduced to an acceptable level.....:	No moving parts	N/A
	RISK from contact with moving parts reduced to an acceptable level using protective measures, (access, function, shape of parts, energy, speed of motion, and benefits to PATIENT considered)		N/A
	RESIDUAL RISK associated with moving parts considered acceptable when exposure was needed for ME EQUIPMENT to perform its intended function, and		N/A
	RISK CONTROLS implemented.....:		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with moving parts.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	All RISKS associated with moving parts have been reduced to an acceptable level		N/A
9.2.2	TRAPPING ZONE		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
9.2.2.1	ME EQUIPMENT with a TRAPPING ZONE complied with one or more of the following as feasible:		N/A
	– Gaps in Clause 9.2.2.2, or		N/A
	– Safe distances in Clause 9.2.2.3, or		N/A
	– GUARDS and other RISK CONTROL measures in 9.2.2.4, or		N/A
	– Continuous activation in Clause 9.2.2.5		N/A
	Control of relevant motion complied with 9.2.2.6 when implementation of above protective measures were inconsistent with INTENDED USE of ME EQUIPMENT or ME SYSTEM		N/A
9.2.2.2	A TRAPPING ZONE considered not to present a MECHANICAL HAZARD when gaps of TRAPPING ZONE complied with dimensions per Table 20.....:	See appended Table 9.2.2.2	N/A
9.2.2.3	A TRAPPING ZONE considered not to present a MECHANICAL HAZARD when distances separating OPERATOR, PATIENT, and others from TRAPPING ZONES exceeded values in ISO 13857:2008 ...:	See appended Table 9.2.2.2	N/A
9.2.2.4	GUARDS and other RISK CONTROL measures		N/A
9.2.2.4.1	A TRAPPING ZONE do not to present a MECHANICAL HAZARD when GUARDS or other RISK CONTROL measures are of robust construction, not easy to bypass or render non-operational, and did not introduce additional unacceptable RISK.....:		N/A
9.2.2.4.2	FIXED GUARDS held in place by systems that can only be dismantled with a TOOL		N/A
9.2.2.4.3	Movable GUARDS that can be opened without a TOOL remained attached when GUARD was open		N/A
	– they are associated with an interlock preventing relevant moving parts from starting to move while TRAPPING ZONE is accessible, and stops movement when the GUARD is opened,		N/A
	– absence or failure of one of their components prevents starting, and stops moving parts		N/A
	Movable GUARDS complied with any applicable tests		N/A
9.2.2.4.4	Other RISK CONTROL designed and incorporated into to the control system stops movement and		N/A
	– SINGLE FAULT CONDITIONS have a second RISK CONTROL, or		N/A
	ME EQUIPMENT is SINGLE FAULT SAFE		N/A
9.2.2.5	Continuous activation		N/A
	Continuous activation used as a RISK CONTROL, complies with the following		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	a) movement was in OPERATOR'S field of view		N/A
	b) movement of ME EQUIPMENT or its parts was possible only by continuous activation of control by OPERATOR		N/A
	c) a second RISK CONTROL provided for SINGLE FAULT CONDITION of continuous activation system, or		N/A
	- the continuous activation system is SINGLE FAULT SAFE		N/A
9.2.2.6	Speed of movement(s) positioning parts of ME EQUIPMENT or PATIENT limited to allow OPERATOR control of the movement		N/A
	Over travel of such movement occurring after operation of a control to stop movement, did not result in an unacceptable RISK		N/A
9.2.3	Other MECHANICAL HAZARDS associated with moving parts		N/A
9.2.3.1	Controls positioned, recessed, or protected by other means so that they cannot be accidentally actuated		N/A
	- unless for the intended PATIENT, the USABILITY ENGINEERING PROCESS concludes otherwise (e.g. PATIENT with special needs), or		N/A
	- activation does not result in an unacceptable RISK		N/A
9.2.3.2	Over travel past range limits of the ME EQUIPMENT prevented.....:		N/A
	Over travel means provided with mechanical strength to withstand loading in NORMAL CONDITION & reasonably foreseeable misuse.....:	See appended Table 9.2.3.2	N/A
9.2.4	Emergency stopping devices		N/A
	Where necessary to have one or more emergency stopping device(s), emergency stopping device complied with all the following, except for actuating switch capable of interrupting all power.....:		N/A
	a) Emergency stopping device reduced RISK to an acceptable level		N/A
	RISK MANAGEMENT FILE indicates the use of an emergency stopping device reduces the RISK to an acceptable level.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.5)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	b) Proximity and response of OPERATOR to actuate emergency stopping device could be relied upon to prevent HARM		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	c) Emergency stopping device actuator was readily accessible to OPERATOR		N/A
	d) Emergency stopping device(s) are not part of normal operation of ME EQUIPMENT		N/A
	e) Emergency switching operation or stopping means neither introduced further HAZARD nor interfered with operation necessary to remove original MECHANICAL HAZARD		N/A
	f) Emergency stopping device was able to break full load of relevant circuit, including possible stalled motor currents and the like		N/A
	g) Means for stopping of movements operate as a result of one single action		N/A
	h) Emergency stopping device provided with an actuator in red and easily distinguishable and identifiable from other controls		N/A
	i) An actuator interrupting/opening mechanical movements marked on or immediately adjacent to face of actuator with symbol 18 of Table D.1 or "STOP"		N/A
	j) Emergency stopping device, once actuated, maintained ME EQUIPMENT in disabled condition until a deliberate action, different from that used to actuate it, was performed		N/A
	k) Emergency stopping device is suitable for its application		N/A
9.2.5	Means provided to permit quick and safe release of PATIENT in event of breakdown of ME EQUIPMENT or failure of power supply, activation of a RISK CONTROL measure, or emergency stopping		N/A
	– and uncontrolled or unintended movement of ME EQUIPMENT that could result in an unacceptable RISK prevented		N/A
	– Situations where PATIENT is subjected to unacceptable RISKS due to proximity of moving parts, removal of normal exit routes, or other HAZARDS prevented		N/A
	– Measures provided to reduce RISK to an acceptable level when after removal of counterbalanced parts, other parts of ME EQUIPMENT can move in a hazardous way		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS to the PATIENT related to breakdown of the ME EQUIPMENT: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
9.3	Rough surfaces, sharp corners and edges of ME EQUIPMENT that could result in injury or damage avoided or covered.....:	Smooth and rounded	P
9.4	Instability HAZARDS		P
9.4.1	ME EQUIPMENT and its parts, other than FIXED, for placement on a surface did not overbalance (tip over) or move unexpectedly in NORMAL USE		P
9.4.2	Instability – overbalance		P
9.4.2.1	ME EQUIPMENT or its parts did not overbalance when prepared per ACCOMPANYING DOCUMENTS, or when tested	See appended Table 9.4.2.1	P
9.4.2.2	Instability excluding transport		P
	ME EQUIPMENT or its did not overbalance when placed in different positions of NORMAL USE,	See appended Table 9.4.2.2	P
	A warning provided when overbalance occurred during 10° inclined plane test		N/A
9.4.2.3	Instability from horizontal and vertical forces		N/A
	a) ME EQUIPMENT or its parts with a mass of 25kg or more, intended to be used on the floor, didn't overbalance due to pushing, leaning against it	To be evaluated in the final installation	N/A
	Surfaces of ME EQUIPMENT or its parts where a RISK of overbalancing exists from pushing, etc., permanently marked with a warning of the RISK		N/A
	ME EQUIPMENT did not overbalance when tested according to Cl. 9.4.2.3 a)	See appended Table 9.4.2.3	N/A
	b) ME EQUIPMENT, for use on the floor or on a table, did not overbalance due to sitting or stepping		N/A
	ME EQUIPMENT or its parts, for use on the floor or on a table, where RISK of overbalancing exists, permanently marked with the RISK warning.....:		N/A
	ME EQUIPMENT did not overbalance when tested according to Cl. 9.4.2.3b).....:	See appended Table 9.4.2.3	N/A
9.4.2.4	Castors and wheels		N/A
9.4.2.4.1	Means used for transportation of MOBILE ME EQUIPMENT did not result in an unacceptable RISK when MOBILE ME EQUIPMENT moved or parked in NORMAL USE	To be evaluated in the final installation	N/A
9.4.2.4.2	Force required to move MOBILE ME EQUIPMENT did not exceed 200 N	See appended Table 9.4.2.4.2	N/A
9.4.2.4.3	MOBILE ME EQUIPMENT exceeding 45 kg able to pass over threshold	See appended Table 9.4.2.4.3	N/A
9.4.3	Instability from unwanted lateral movement (including sliding)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
9.4.3.1	a) Brakes of power-driven MOBILE ME EQUIPMENT normally activated and could only be released by continuous actuation of a control	To be evaluated in the final installation	N/A
	b) MOBILE ME EQUIPMENT provided with locking means to prevent unwanted movements		N/A
	c) No unwanted lateral movement resulted when MOBILE ME EQUIPMENT placed in its transport position when test per 9.4.3.1	See appended Table 9.4.3.1	N/A
9.4.3.2	Instability excluding transport		N/A
	a) MOBILE ME EQUIPMENT provided with wheel locks or braking system compliant with 5° tilt test	See appended Table 9.4.3.2	N/A
	b) MOBILE ME EQUIPMENT provided with wheel locks or braking system compliant with lateral stability test	See appended Table 9.4.3.2	N/A
9.4.4	Grips and other handling devices		N/A
	a) ME EQUIPMENT with a mass of over 20 kg requiring lifting in NORMAL USE or transport provided with suitable handling means, or ACCOMPANYING DOCUMENTS specify safe lifting method	<20kg	N/A
	Handles, suitably placed to enable ME EQUIPMENT or its part to be carried by two or more persons and by examination of EQUIPMENT, its part, or ACCOMPANYING DOCUMENTS		N/A
	b) PORTABLE ME EQUIPMENT with a mass > 20 kg provided with one or more carrying-handles suitably placed to enable carrying by two or more persons as confirmed by actual carrying		N/A
	c) Carrying handles and grips and their means of attachment withstood loading test.....	See appended Table 9.4.4	N/A
9.5	Expelled parts HAZARD		N/A
9.5.1	Suitability of means of protecting against expelled parts determined by assessment and examination of RISK MANAGEMENT FILE..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	All identified RISKS associated with expelled parts mitigated to an acceptable level	No such parts	N/A
9.5.2	Cathode Ray tube(s) complied with IEC 60065:2001, Clause 18, or IEC 61965.....	See appended Table 8.10	N/A
9.6	Acoustic energy (including infra- and ultrasound) and vibration		N/A
9.6.1	Human exposure to acoustic energy and vibration from ME EQUIPMENT doesn't result in unacceptable RISK and	Component, to be evaluated in the final installation	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	If necessary, confirmed in RISK MANAGEMENT FILE including audibility of auditory alarm signals, and PATIENT sensitivity.....		N/A
	If necessary, confirmed in RISK MANAGEMENT FILE including audibility of auditory alarm signals, PATIENT sensitivity, and (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	All identified RISKS mitigated to an acceptable level		N/A
9.6.2	Acoustic energy		N/A
9.6.2.1	PATIENT, OPERATOR, and other persons are not exposed to acoustic energy from ME EQUIPMENT in NORMAL USE		N/A
	– 80 dBA for a cumulative exposure of 24 h over a 24 h period (dBA)		—
	- 83 dBA (when halving the cumulative exposure time) (dBA)		—
	– 140 dBC (peak) sound pressure level for impulsive or impact acoustic energy (dB)		—
9.6.2.2	RISK MANAGEMENT FILE examined	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
9.6.3	Hand-transmitted vibration		N/A
	Means provided to protect PATIENT and OPERATOR when hand-transmitted frequency-weighted r.m.s. acceleration generated in NORMAL USE exceeds specified values		N/A
	– 2.5 m/s ² for a cumulative time of 8 h during a 24 h period (m/s ²).....		N/A
	– Accelerations for different times, inversely proportional to square root of time (m/s ²).....		N/A
9.7	Pressure vessels and parts subject to pneumatic and hydraulic pressure		N/A
9.7.2	Pneumatic and hydraulic parts of ME EQUIPMENT or ACCESSORIES met requirements based on examination of RISK MANAGEMENT FILE.....	No such parts	N/A
	(ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		
	– No unacceptable RISK resulted from loss of pressure or loss of vacuum		N/A
	– No unacceptable RISK resulted from a fluid jet caused by leakage or a component failure		N/A
	– Elements of ME EQUIPMENT or an ACCESSORY, especially pipes and hoses leading to an unacceptable RISK protected against harmful external effects		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– Reservoirs and similar vessels leading to an unacceptable RISK are automatically depressurized when ME EQUIPMENT is isolated from its power supply		N/A
	Means provided for isolation, or local depressurizing reservoirs and similar vessels, and pressure indication when above not possible		N/A
	– All elements remaining under pressure after isolation of ME EQUIPMENT or an ACCESSORY from its power supply resulting in an unacceptable RISK provided with clearly identified exhaust devices, and a warning to depressurize these elements before setting or maintenance activity		N/A
9.7.4	MAXIMUM EQUIPMENT PRESSURE did not exceed MAXIMUM PERMISSIBLE WORKING PRESSURE for the part, except allowed for pressure relief devices in 9.7.7 confirmed by inspection of THE MANUFACTURER'S data for the component, ME EQUIPMENT, and by functional tests		N/A
9.7.5	A pressure vessel withstood a HYDRAULIC TEST PRESSURE when MAXIMUM EQUIPMENT PRESSURE was more than 50 kPa, and product of MAXIMUM EQUIPMENT PRESSURE and volume was more than 200 kPa	See appended Table 9.7.5	N/A
9.7.6	Pressure-control device regulating pressure in ME EQUIPMENT with pressure-relief device completed 100,000 cycles of operation under RATED load and prevented pressure from exceeding 90 % of setting of pressure-relief device in different conditions of NORMAL USE		N/A
9.7.7	Pressure-relief device(s) used where MAXIMUM PERMISSIBLE WORKING PRESSURE could otherwise be exceeded met the following, as confirmed by MANUFACTURER'S data, ME EQUIPMENT, RISK MANAGEMENT FILE, and functional tests.....		N/A
	a) Connected as close as possible to pressure vessel or parts of system it is to protect		N/A
	b) Installed to be readily accessible for inspection, maintenance, and repair		N/A
	c) Could be adjusted or rendered inoperative without a TOOL		N/A
	d) With discharge opening located and directed as to not to release material towards any person		N/A
	e) With discharge opening located and directed as to not to deposit material on parts that could result in an unacceptable RISK		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	f) Adequate discharge capacity provided to ensure that pressure will not exceed MAXIMUM PERMISSIBLE EQUIPMENT PRESSURE of system it is connected to by more than 10 % when failure occurs in control of supply pressure		N/A
	g) No shut-off valve provided between a pressure-relief device and parts it is to protect		N/A
	h) Min number of cycles of operation 100 000, except for one-time use devices (bursting disks)		N/A
	RISK MANAGEMENT FILE includes an assessment of the risks associated with the discharge opening of the pressure relief device ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
9.8	HAZARDS associated with support systems		N/A
9.8.1	ME EQUIPMENT parts designed to support loads or provide actuating forces when a mechanical fault could constitute an unacceptable RISK	Component, to be evaluated in the final installation	N/A
	– Construction of support, suspension, or actuation system complied with Table 21 and TOTAL LOAD		N/A
	– Means of attachment of ACCESSORIES prevent possibility of incorrect attachment that could result in an unacceptable RISK		N/A
	– RISK ANALYSIS of support systems included MECHANICAL HAZARDS from static, dynamic, vibration, foundation and other movements, impact and pressure loading, temperature, environmental, manufacture and service conditions (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
	– RISK ANALYSIS included effects of failures such as excessive deflection, plastic deformation, ductile/brittle fracture, fatigue fracture, instability (buckling), stress-assisted corrosion cracking, wear, material creep and deterioration, and residual stresses from manufacturing PROCESSES		N/A
	– Instructions on attachment of structures to a floor, wall, ceiling, included in ACCOMPANYING DOCUMENTS making adequate allowances for quality of materials used to make the connection and list the required materials		N/A
	Additional instructions provided on checking adequacy of surface of structure parts will be attached to		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
9.8.2	Support systems maintain structural integrity during EXPECTED SERVICE LIFE, and TENSILE SAFETY FACTORS are not less than in Table 21, except when an alternative method used to demonstrate structural integrity throughout EXPECTED SERVICE LIFE, or for a foot rest		N/A
	Compliance with 9.8.1 and 9.8.2 confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications and material processing		N/A
	RISK MANAGEMENT FILE includes an assessment of the structural integrity of support system (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
	All identified RISKS are mitigated to an acceptable level		N/A
	When test was conducted, testing consisted of application of a test load to support assembly equal to TOTAL LOAD times required TENSILE SAFETY FACTOR while support assembly under test was in equilibrium after 1 min, or not resulted in an unacceptable RISK	See appended Table 8.10	N/A
	Where the equipment is not at equilibrium after 1 min, the RISK MANAGEMENT FILE includes an assessment of the test results..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISK: (ISO 14971 Cl.____)	N/A
9.8.3	Strength of PATIENT or OPERATOR support or suspension systems		N/A
9.8.3.1	ME EQUIPMENT parts supporting or immobilizing PATIENTS presents no unacceptable RISK of physical injuries and accidental loosening of secured joints		N/A
	RISK MANAGEMENT FILE includes assessment of the RISKS associated with physical injuries and accidental loosening of fixings (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
	SAFE WORKING LOAD of ME EQUIPMENT or its parts supporting or suspending PATIENTS or OPERATORS is sum of mass of PATIENTS or mass of OPERATORS plus mass of ACCESSORIES supported by ME EQUIPMENT or its parts		N/A
	Supporting and suspending parts for adult human PATIENTS or OPERATORS designed for a PATIENT or OPERATOR with a min mass of 135 kg and ACCESSORIES with a min mass of 15 kg, unless stated by MANUFACTURER		N/A
	Maximum mass of PATIENT included in SAFE WORKING LOAD of ME EQUIPMENT or its parts supporting or suspending PATIENTS adapted when MANUFACTURER specified applications		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Max allowable PATIENT mass < 135 kg marked on ME EQUIPMENT and stated in ACCOMPANYING DOCUMENTS		N/A
	Max allowable PATIENT mass over 135 kg stated in ACCOMPANYING DOCUMENTS		N/A
	Examination of markings, ACCOMPANYING DOCUMENTS, and RISK MANAGEMENT FILE confirmed compliance		N/A
9.8.3.2	a) Entire mass of PATIENT or OPERATOR distributed over an area of 0.1 m ² on a foot rest temporarily supporting a standing PATIENT or OPERATOR		N/A
	Compliance confirmed by examination of ME EQUIPMENT specifications of materials and their processing, and tests	See appended Tables 8.10 and 9.8.3.2	N/A
	b) Deflection of a support surface from PATIENT or OPERATOR loading on an area of support/ suspension where a PATIENT or OPERATOR can sit did not result in an unacceptable RISK		N/A
	Compliance confirmed by examination of ME EQUIPMENT, specifications of materials and their processing, and by a test	See appended Tables 8.10 and 9.8.3.2	N/A
9.8.3.3	Dynamic forces that can be exerted on equipment parts supporting or suspending a PATIENT or OPERATOR in NORMAL USE maintained BASIC SAFETY and ESSENTIAL PERFORMANCE confirmed test	See appended Table 9.8.3.3	N/A
9.8.4	Systems with MECHANICAL PROTECTIVE DEVICES		N/A
9.8.4.1	a) A MECHANICAL PROTECTIVE DEVICE provided for the support system		N/A
	b) MECHANICAL PROTECTIVE complies with the requirements as follows:		N/A
	– Designed based on TOTAL LOAD		N/A
	– Has TENSILE SAFETY FACTORS for all parts not less than Table 21, row 7		N/A
	– Activated before travel produced an unacceptable RISK		N/A
	– Considers Clauses 9.2.5 and 9.8.4.3		N/A
	Compliance confirmed by examination of ME EQUIPMENT over travel calculations and evaluation plus functional tests	See appended Table 8.10	N/A
9.8.4.2	Activation of MECHANICAL PROTECTIVE DEVICE is made obvious to OPERATOR when ME EQUIPMENT can still be used after failure of suspension or actuation means and activation of a MECHANICAL PROTECTIVE DEVICE		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	MECHANICAL PROTECTIVE DEVICE requires use of a TOOL to be reset or replaced		N/A
9.8.4.3	MECHANICAL PROTECTIVE DEVICE intended to function once		N/A
	–use of ME EQUIPMENT not possible until replacement of MECHANICAL PROTECTIVE DEVICE ...		N/A
	– ACCOMPANYING DOCUMENTS provided with required information on replacement by service personal		N/A
	– ME EQUIPMENT permanently marked with SAFETY SIGN 2 of Table D.		N/A
	– Marking is adjacent to MECHANICAL PROTECTIVE DEVICE		N/A
	– Compliance confirmed by examination and following test.....	See appended Table 8.10	N/A
	A chain, cable, band, spring, belt, jack screw nut, pneumatic or hydraulic hose, structural part or the like, employed to support a load, defeated by a convenient means causing maximum normal load to fall from most adverse position permitted by construction of ME EQUIPMENT		N/A
	Load included SAFE WORKING LOAD in 9.8.3.1 when system was capable of supporting a PATIENT or OPERATOR		N/A
	No evidence of damage to MECHANICAL PROTECTIVE DEVICE affecting its ability to perform its intended function		N/A
9.8.5	Systems without MECHANICAL PROTECTIVE DEVICES		N/A
	Support Systems does not require MECHANICAL PROTECTIVE DEVICES		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with wear on the support system	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
	(ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)		
10	PROTECTION AGAINST UNWANTED AND EXCESSIVE RADIATION HAZARDS		--
10.1	X-Radiation		N/A
10.1.1	The air kerma did not exceed 5 µGy/hat 5 cm from surface of ME EQUIPMENT	See Table 10.1.1	N/A
	Annual exposure reduced taking into account the irradiated body part, national regulations, and/or international recommendations for ME EQUIPMENT that has permanent proximity to a PATIENT as part of the INTENDED USE		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10.1.2	RISK from unintended X-radiation from ME EQUIPMENT producing X-radiation for diagnostic and therapeutic purposes addressed application of applicable particular and collateral standards, or		N/A
	RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
10.2	RISK associated with alpha, beta, gamma, neutron, and other particle radiation, addressed in RISK MANAGEMENT PROCESS as shown in RISK MANAGEMENT FILE..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
10.3	The power density of unintended microwave radiation at frequencies between 1 GHz and 100 GHz does not exceed 10 W/m ²		N/A
	Microwave radiation is propagated intentionally		N/A
10.4	Relevant requirements of IEC 60825-1:2014 applied to lasers including laser diodes, laser light barriers or similar with a wavelength range of 180nm to 1 mm.		N/A
10.5	RISK associated with visible electromagnetic radiation other than emitted by lasers when applicable, addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
10.6	RISK associated with infrared radiation other than emitted by lasers addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
10.7	RISK associated with ultraviolet radiation other than emitted by lasers and LEDs addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
11	PROTECTION AGAINST EXCESSIVE TEMPERATURES AND OTHER HAZARDS		--
11.1	Excessive temperatures in ME EQUIPMENT		P
11.1.1	Temperatures on ACCESSIBLE PARTS did not exceed values in Tables 22 and	See appended Table 11.1.1	P
	Surfaces of test corner did not exceed 90 °C		P
	THERMAL CUT-OUTS did not operate in NORMAL CONDITION		N/A
	RISK MANAGEMENT FILE includes an assessment of the duration of contact for all APPLIED PARTS and ACCESSIBLE PARTS..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISK: (ISO 14971 Cl.____)	N/A

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

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Clause	Requirement + Test	Result - Remark	Verdict
	Probability of occurrence and duration of contact for parts likely to be touched and for APPLIED PARTS documented in RISK MANAGEMENT FILE (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	N/A
	e) Where thermal regulatory devices make this method inappropriate, alternative methods for measurement are justified in the RISK MANAGEMENT FILE.....	RMF Reference to specific RISKS:	N/A
11.1.4	GUARDS preventing contact with hot or cold accessible surfaces removable only with a TOOL		N/A
11.2	Fire prevention		P
11.2.1	ENCLOSURE has strength and rigidity necessary to prevent a fire and met mechanical strength tests for ENCLOSURES in 15.3		P
11.2.2	Me equipment and me systems used in conjunction with OXYGEN RICH ENVIRONMENTS		N/A
11.2.2.1	RISK of fire in an OXYGEN RICH ENVIRONMENT reduced by means limiting spread of	Component, not evaluated for use with Oxygen Rich Environment	N/A
	a) No sources of ignition discovered in an OXYGEN RICH ENVIRONMENT under any of the following conditions		N/A
	1) when temperature of material raised to its ignition temperature		N/A
	2) when temperatures affected solder or solder joints causing loosening, short circuiting, or other failures causing sparking or increasing material temperature to its ignition temperature		N/A
	3) when parts affecting safety cracked or changed outer shape exposing temperatures higher than 300°C or sparks due to overheating		N/A
	4) when temperatures of parts or components exceeded 300°C, atmosphere was 100 % oxygen, contact material solder, and fuel cotton		N/A
	5) when sparks provided adequate energy for ignition by exceeding limits of Figs 35 to 37 (inclusive), atmosphere was 100 % oxygen, contact material solder, and fuel cotton		N/A
	Deviations from worst case limits in 4) and 5) above based on lower oxygen concentrations or less flammable fuels justified and documented in RISK MANAGEMENT FILE..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
	Alternative test in this clause did not identify existence of ignition sources at highest voltage or current, respectively.....	See appended Table 11.2.2.1	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	A safe upper limit determined by dividing upper limit of voltage or current, respectively, with safety margin factor of three		N/A
	b) RESIDUAL RISK of fire in an OXYGEN RICH ENVIRONMENT as determined by application of RISK MANAGEMENT PROCESS is based on following configurations, or in combination: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	1) Electrical components in an OXYGEN RICH ENVIRONMENT provided with power supplies having limited energy levels lower than those considered sufficient for ignition in 11.2.2.1 a) as determined by examination, measurement or calculation of power, energy, and temperatures in NORMAL and SINGLE FAULT CONDITIONS identified in 11.2.3.....:	See appended Tables 4.11, 11.1.1, 11.2.2.1 and 13.2	N/A
	2) Max oxygen concentration measured until it did not exceed 25 % in ventilated compartments with parts that can be a source of ignition only in SINGLE FAULT CONDITION and can be penetrated by oxygen due to an undetected leak (%)......:		N/A
	3) A compartment with parts or components that can be a source of ignition only under SINGLE FAULT CONDITION separated from another compartment containing an OXYGEN RICH ENVIRONMENT by sealing all joints and holes for cables, shafts, or other purposes		N/A
	Effect of possible leaks and failures under SINGLE FAULT CONDITION that could cause ignition evaluated using a RISK ASSESSMENT to determine maintenance intervals by examination of documentation and RISK MANAGEMENT FILE.....:	See Attachment No. __	N/A
	4) Fire initiated in ENCLOSURE of electrical components in a compartment with OXYGEN RICH ENVIRONMENT that can become a source of ignition only under SINGLE FAULT CONDITIONS self-extinguished rapidly and no hazardous amount of toxic gases reached PATIENT as determined by analysis of gases	See Attachment No. __	N/A
11.2.2.2	RISK of ignition did not occur, and oxygen concentration did not exceed 25% in immediate surroundings due to location of external exhaust outlets of an OXYGEN RICH ENVIRONMENT		N/A
11.2.2.3	Electrical connections within a compartment containing an OXYGEN RICH ENVIRONMENT under NORMAL USE did not produce sparks		N/A
	– Screw-attachments protected against loosening during use by varnishing, use of spring washers, or adequate torques		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– Soldered, crimped, and pin-and-socket connections of cables exiting ENCLOSURE include additional mechanical securing means		N/A
11.2.3	SINGLE FAULT CONDITIONS related to OXYGEN RICH ENVIRONMENTS ME EQUIPMENT and ME SYSTEMS considered		N/A
	– Failure of a ventilation system constructed in accordance with 11.2.2.1 b) 2).....:	Component, not evaluated for use with Oxygen Rich Environment	N/A
	– Failure of a barrier constructed in accordance with 11.2.2.1 b) 3).....:		N/A
	– Failure of a component creating a source of ignition (as defined in 11.2.2.1 a).....:		N/A
	– Failure of solid insulation or creepage and clearances providing equivalent of at least one MEANS OF PATIENT PROTECTION but less than two MEANS OF PATIENT PROTECTION that could create a source of ignition defined in 11.2.2.1 a).....:		N/A
	– Failure of a pneumatic component resulting in leakage of oxygen-enriched gas.....:		N/A
11.3	Constructional requirements for fire ENCLOSURES of ME EQUIPMENT		P
	ME EQUIPMENT met this clause for alternate means of compliance with selected HAZARDOUS SITUATIONS and fault conditions in 13.1.2.....:	Compliance with selected HAZARDOUS SITUATIONS and fault conditions in 13.1.2	P
	Constructional requirements were met, or		P
	- constructional requirements specifically analysed in RISK MANAGEMENT FILE: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	Justification, when requirement not met.....:	Specific requirement that is not met: __ Justification: __	N/A
	a) Flammability classification of insulated wire and connectors within fire ENCLOSURE is minimum V-2, , when test in accordance with IEC 60695-11-10 or :	See appended Table 8.10	P
	insulated with PVC, TFE, PTFE, FEP, polychloroprene or polyimide as determined by examination of data on materials.....:		N/A
	Flammability classification of printed circuit boards, and insulating material on which components are mounted is V-2, or better, based on IEC 60695-11-10 as decided by examination of materials data.....:	See appended Table 8.10	P
	If no Certification, V tests based on IEC 60695-11-10 conducted on 3 samples of complete parts (or sections of it), including area with min. thickness, ventilation openings		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) Fire ENCLOSURE met following:		P
	1) No openings at bottom or, as specified in Fig 39, constructed with baffles as in Fig 38, or made of perforated metal as in Table 25, or a metal screen with a mesh $\leq 2 \times 2$ mm centre to centre and wire diameter of at least 0.45 mm	No openings	P
	2) No openings on the sides within the area included within the inclined line C in Fig 39 or made of perforated metal as in Table 25, or a metal screen with a mesh $\leq 2 \times 2$ mm centre to centre and wire diameter of at least 0.45 mm		P
	3) ENCLOSURE, baffles, and flame barriers have adequate rigidity and are made of appropriate metal or of non-metallic materials.....:	See appended Table 8.10	P
11.4	ME EQUIPMENT and ME SYSTEMS intended for use with flammable anaesthetics		N/A
	ME EQUIPMENT, ME SYSTEMS and parts described in ACCOMPANYING DOCUMENTS for use with flammable with Annex G	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		N/A
	MANUFACTURER'S RISK MANAGEMENT PROCESS addresses possibility of fire and associated mitigations as confirmed by examination of RISK MANAGEMENT FILE: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	Not evaluated for use in the presence of flammable agents	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		P
11.6.1	Sufficient degree of protection provided against overflow, spillage, leakage, ingress of water or particulate matter, cleaning, disinfection and sterilization, and compatibility with substances used with ME EQUIPMENT.....:	IP22	P
11.6.2	Overflow in ME EQUIPMENT		N/A
	ME EQUIPMENT incorporates a reservoir or liquid storage that did not wet any MEANS OF PROTECTION, nor result in the loss of BASIC SAFETY or ESSENTIAL PERFORMANCE.....:	See Appended Table 11.6.1	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Maximum fill level is indicated by marking on the ME EQUIPMENT and a warning or safety notice is given, no HAZARDOUS SITUATION (as specified in 13.1) or unacceptable RISK due to overflow developed when the reservoir or liquid storage chamber is filled to its maximum capacity and the TRANSPORTABLE ME EQUIPMENT is tilted through an angle of 10°, or for MOBILE ME EQUIPMENT exceeding 45 kg, is moved over a threshold as described in 9.4.2.4.3.		N/A
	No warning or safety notice provided regarding the maximum fill level, no HAZARDOUS SITUATION (as specified in 13.1) or unacceptable RISK due to overflow developed when the reservoir or liquid storage chamber was filled to 15 % above the maximum capacity and the TRANSPORTABLE ME EQUIPMENT was tilted through an angle of 10°, or in MOBILE ME EQUIPMENT exceeding 45 kg, was moved over a threshold as described in 9.4.2.4.3.		N/A
11.6.3	Spillage on ME EQUIPMENT and ME SYSTEM		N/A
	ME EQUIPMENT and ME SYSTEMS handling liquids constructed that spillage does not wet parts as determined by review of the RISK MANAGEMENT FILE and test.....: (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	See appended Tables 11.6.1; 8.7, 8.8.3 and RMF Reference to specific RISK: (ISO 14971 Cl. ___)	N/A
	RISK ANALYSIS identifies the type of liquid, volume, duration and location of the spill.....:		N/A
11.6.5	Ingress of water or particulate matter into ME EQUIPMENT and ME SYSTEMS		P
	ME EQUIPMENT with IP Code placed in least favourable position of NORMAL USE and subjected to tests of IEC 60529 (IP Code).....:	See Appended Table 11.6.1	P
	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	P
11.6.6	Cleaning and disinfection of ME EQUIPMENT and ME SYSTEMS		N/A
	ME EQUIPMENT/ME SYSTEM and their parts and ACCESSORIES cleaned or disinfected using methods specified in instructions for use.....:	See Appended Tables 11.6.1, 8.7, and 8.8.3	N/A
	Effects of multiple cleanings/disinfections during EXPECTED SERVICE LIFE of EQUIPMENT evaluated by MANUFACTURER.....:		N/A
11.6.7	Sterilization of ME EQUIPMENT and ME SYSTEMS		N/A
	ME EQUIPMENT, ME SYSTEMS and their parts or ACCESSORIES intended to be sterilized assessed and documented and compliant with tests.....:	See appended Tables 8.7 8.8.3, and 11.6.1	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	RISK MANAGEMENT FILE includes an assessment of the RISKS associated with any deterioration following sterilization..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
11.6.8	RISKS associated with compatibility of substances used with ME EQUIPMENT addressed in RISK MANAGEMENT PROCESS..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
11.7	ME EQUIPMENT, ME SYSTEM, and ACCESSORIES coming into direct or indirect contact with biological tissues, cells, or body fluids assessed and documented		N/E
11.8	Interruption and restoration of power supply did not result in a loss of BASIC SAFETY or ESSENTIAL PERFORMANCE	Component, to be evaluated in the final installation	N/A
12	ACCURACY OF CONTROLS AND INSTRUMENTS AND PROTECTION AGAINST HAZARDOUS OUTPUTS		--
12.1	RISKS associated with accuracy of controls and instruments stated..... (ISO 14971 Cl. 5.3-5.5, 6, 7.1-7.4)	Not applicable to component power supply	N/A
12.2	RISK of poor USABILITY, including identification, marking, and documents addressed in a USABILITY ENGINEERING.....	Refer to IEC 60601-1-6 report	P
12.3	MANUFACTURER implemented an ALARM SYSTEM compliant with IEC 60601-1-8:2006, IEC 60601-1-8:2006/AMD1:2012 and IEC 60601-1-8:2006/AMD2:2020.....	No ALARM SYSTEM	N/A
12.4	Protection against hazardous output		N/A
12.4.1	RISKS associated with hazardous output arising from intentional exceeding of safety limits addressed in RISK MANAGEMENT PROCESS..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	Not applicable to component power supply	N/A
12.4.2	- need for indication associated with hazardous output addressed in RISK MANAGEMENT PROCESS .. (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4))	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
12.4.3	RISKS associated with accidental selection of excessive output values for ME EQUIPMENT with a multi-purpose unit addressed in RISK MANAGEMENT PROCESS..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
12.4.4	RISKS associated with incorrect output addressed in RISK MANAGEMENT PROCESS .. (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
12.4.5	Diagnostic or therapeutic radiation		N/A
12.4.5.1	Adequate provisions to protect OPERATORS, PATIENTS, other persons and sensitive devices in vicinity of unwanted or excessive radiation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Radiation safety ensured by compliance with requirements of appropriate standards		N/A
12.4.5.2	ME EQUIPMENT and ME SYSTEMS designed to produce X-radiation for diagnostic imaging purposes complied with IEC 60601-1-3.....	See IEC 60601-1-3 Report	N/A
12.4.5.3	RISKS associated with radiotherapy addressed in RISK MANAGEMENT PROCESS as (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
12.4.5.4	RISKS associated with ME EQUIPMENT producing diagnostic or therapeutic radiation other than diagnostic X-rays and radiotherapy addressed in RISK MANAGEMENT PROCESS as..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
12.4.6	RISKS associated with diagnostic or therapeutic acoustic pressure addressed in RISK MANAGEMENT..... (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
13	HAZARDOUS SITUATIONS AND FAULT CONDITIONS		--
13.1	Specific HAZARDOUS SITUATIONS		P
13.1.2	Emissions, deformation of ENCLOSURE or exceeding maximum temperature		P
	– Emission of flames, molten metal, poisonous or ignitable substance in hazardous quantities did not occur		P
	– Deformation of ENCLOSURE impairing compliance with 15.3.1 did not occur		P
	– Temperatures of APPLIED PARTS did not exceed allowable values in Table 24.....	See appended Table 11.1.1	N/A
	– Temperatures of Accessible PARTS THAT ARE LIKELY TO BE TOUCHED, but not intended to be touched did not exceed limits in Table 34.....	See appended Table 11.1.1	P
	- Temperatures of ACCESSIBLE PARTS intended to be touched did not exceed limits in Table 23		P
	–Allowable values for “other components and materials” in Table 22 times 1.5 minus 12.5 °C were not exceeded		P
	Limits for windings in Tables 26, 27, and 31 not exceeded		P
	Table 22 not exceeded in all other cases		P
	Temperatures measured according to 11.1.3		P
	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:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– Supply circuit was unable to supply 15 W one minute after 15 W drawn from supply circuit in SINGLE FAULT CONDITION	See appended Table 13.1.2	N/A
	- or secondary circuits mounted on materials with a minimum flame rating of -V1, 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
	- 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..... :	See appended Table 4.9	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	See appended Table 13.1.2	P
13.1.3	– limits for LEAKAGE CURRENT in SINGLE FAULT CONDITION did not exceed.....:	See appended Table 8.7	P
	– voltage limits for ACCESSIBLE PARTS and APPLIED PARTS did not exceed.....:	See appended Table 8.7	P
13. 2	SINGLE FAULT CONDITIONS		P
13.2.1	During the application of the SINGLE FAULT CONDITIONS listed in 13.2.2 to 13.2.13 (inclusive), the NORMAL CONDITIONS identified in 8.1 a) also applied in the least favourable combination		P
	ME EQUIPMENT complied with 13.2.2 -13.2.12.....:	See appended Table 13.2	P
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with leakage of liquid in a SINGLE FAULT CONDITION.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	RISK MANAGEMENT FILE defines the appropriate test conditions.....:		N/A
13.2.13	ME EQUIPMENT remained safe after tests of 13.2.13.2 to 13.2.13.4, and cooling down to within 3 °C of test environment temperature		P
	ME EQUIPMENT examined for compliance or appropriate tests such as dielectric strength of motor insulation according to 8.8.3 conducted		P

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Clause	Requirement + Test	Result - Remark	Verdict
13.2.13.2	ME EQUIPMENT with heating elements		N/A
	a 1) thermostatically controlled ME EQUIPMENT with heating elements for building-in, r for unattended operation, or with a capacitor not protected by a fuse connected in parallel with THERMOSTAT contacts met tests	No heating elements	N/A
	a 2) ME EQUIPMENT with heating elements RATED for non-CONTINUOUS OPERATION met tests		N/A
	a 3) other ME EQUIPMENT with heating elements met test		N/A
	When more than one test was applicable to same ME EQUIPMENT, tests performed consecutively		N/A
	Heating period stopped when a heating element or an intentionally weak part of a non-SELF-RESETTING THERMAL CUT-OUT ruptured, or current interrupted before THERMAL STABILITY without possibility of automatic restoration		N/A
	Test repeated on a second sample when interruption was due to rupture of a heating element or an intentionally weak part		N/A
	Both samples met 13.1.2, and open circuiting of a heating element or an intentionally weak part in second sample not considered a failure by itself		N/A
	b) ME EQUIPMENT with heating elements without adequate heat discharge, and supply voltage set at 90 or 110 % of RATED supply voltage, least favourable of the two (V)		N/A
	Operating period stopped when a non-SELF-RESETTING THERMAL CUT-OUT operated, or current interrupted without possibility of automatic restoration before THERMAL STABILITY		N/A
	ME EQUIPMENT switched off as soon as THERMAL STABILITY established and allowed to cool to room temperature when current not interrupted		N/A
	Test duration was equal to RATED operating time for non-CONTINUOUS OPERATION		N/A
	c) Heating parts of ME EQUIPMENT tested with ME EQUIPMENT operated in NORMAL CONDITION at 110 % of RATED supply voltage and as in 11.1, and		N/A
	1) Controls limiting temperature in NORMAL CONDITION disabled, except THERMAL CUT-OUTS		N/A
	2) When more than one control provided, they were disabled in turn		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	3) ME EQUIPMENT operated at RATED DUTY CYCLE until THERMAL STABILITY achieved, regardless of RATED operating time		N/A
13.2.13.3	ME EQUIPMENT with motors		N/A
	a 1) For the motor part of the ME EQUIPMENT, compliance checked by tests of 13.2.8- 13.2.10, 13.2.13.3 b), 13.2.13.3 c), and 13.2.13.4, as applicable	No motor	N/A
	To determine compliance with 13.2.9 and 13.2.10 motors in circuits running at 42.4 V peak a.c./ 60 V d.c. or less are covered with a single layer of cheesecloth which did not ignite during the test		N/A
	a 2) Tests on ME EQUIPMENT containing heating parts conducted at prescribed voltage with motor & heating parts operated simultaneously to produce the least favourable condition		N/A
	a 3) Tests performed consecutively when more tests were applicable to the same ME EQUIPMENT		N/A
	b) Motor met running overload protection test of this clause when:		N/A
	1) it is intended to be remotely or automatically controlled by a single control device with no redundant protection, or		N/A
	2) it is likely to be subjected to CONTINUOUS OPERATION while unattended		N/A
	Motor winding temperature determined during each steady period and maximum value did not exceed Table 27 (Insulation Class, Maximum temperature measured °C)		N/A
	Motor removed from ME EQUIPMENT and tested separately when load could not be changed in appropriate steps		N/A
	Running overload test for motors operating at 42.4 V peak a.c./60 V d.c. or less performed only when examination and review of design indicated possibility of an overload		N/A
	Test not conducted where electronic drive circuits maintained a substantially constant drive current		N/A
	Test not conducted based on other justifications (justification)		N/A
	c) ME EQUIPMENT with 3-phase motors operated with normal load, connected to a 3-phase SUPPLY MAINS with one phase disconnected, and periods of operation per 13.2.10		N/A
13.2.13.4	ME EQUIPMENT RATED for NON-CONTINUOUS OPERATION		N/A

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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 SYSTEMS (PEMS)		--
14.1	Requirements in 14.2 to 14.12 not applied to PEMS when it provides no functionality necessary for BASIC SAFETY or ESSENTIAL PERFORMANCE, or	No PEMS	N/A
	- when application of RISK MANAGEMENT showed that failure of PESS does not lead to unacceptable RISK.....:		N/A
	RISK MANAGEMENT FILE contains an assessment of RISKS associated with the failure of the PESS: (ISO 14971 Cl. 5.2-5.5, 6)	RMF Reference to specific RISKS: ISO 14971 Cl. __)	N/A
	Requirements of 14.13 not applied to PEMS intended to be incorporated into an IT NETWORK		N/A
	When the requirements of 14.2 to 14.13 apply, the requirements of IEC 62304:2006 and IEC 62304:2006/AMD1:2015 clause 4.3, 5, 7, 8 and 9 apply for the development or modification of software of each PESS		N/A
	Software development process for Software Classification applied in accordance with Clause 4.3 and 4.4 of IEC 62304:2006 and IEC 62304:2006/AMD1:2015.....:	Software Class: __	N/A
	Software development process applied according to Clause 5 of IEC 62304:2006 and IEC 62304:2006/AMD1:2015.....:	Refer to Attachment-Software	N/A
	Software development process for Software risk management applied according to Clause 7 of IEC 62304:2006 and IEC 62304:2006/AMD1:2015.....:	Refer to Attachment-Software	N/A
	Software development process Configuration Management applied according to Clause 8 of IEC 62304:2006 and IEC 62304:2006/AMD1:2015.....:	Refer to Attachment-Software	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Software development process for Software Problem Resolution applied according to Clause 9 of IEC 62304:2006 and IEC 62304:2006/AMD1:2015.....:	Refer to Attachment-Software	N/A
14.2	Documents required by Clause 14 reviewed, approved, issued and revised according to a formal document control process.....:		N/A
14.3	RISK MANAGEMENT plan required by 4.2.2 includes reference to PEMS VALIDATION plan		N/A
14.4	A PEMS DEVELOPMENT LIFE-CYCLE including a set of defined milestones has been documented		N/A
	At each milestone, activities to be completed, and VERIFICATION methods to be applied to activities have been defined		N/A
	Each activity including its inputs and outputs defined, and each milestone identifies RISK MANAGEMENT activities that must be completed before that milestone		N/A
	PEMS DEVELOPMENT LIFE-CYCLE tailored for a specific development by making plans detailing activities, milestones		N/A
	PEMS DEVELOPMENT LIFE-CYCLE includes documentation requirements		N/A
14.5	A documented system for problem resolution within and between all phases and activities of PEMS DEVELOPMENT LIFE-CYCLE has been developed and maintained		N/A
14.6	RISK MANAGEMENT PROCESS		N/A
14.6.1	MANUFACTURER considered HAZARDS associated with software and hardware aspects of PEMS including those associated with the incorporating PEMS into an IT-NETWORK, components of third-party origin, legacy subsystems when compiling list of known or foreseeable HAZARDS.....:		N/A
	RISK MANAGEMENT FILE includes known or foreseeable HAZARDS associated with software, hardware, incorporation of the PEMS into an IT-NETWORK, components of 3rd party origin and legacy subsystems.....: (ISO 14971 Cl. 5.3)	RMF Reference to specific HAZARDS: (ISO 14971 Cl. __)	N/A
14.6.2	Suitably validated tools and PROCEDURES assuring each RISK CONTROL measure reduces identified RISK(S) satisfactorily provided in addition to PEMS requirements in Clause 4.2.2....:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	RISK MANAGEMENT FILE documents the suitability of tools and procedures to validate each RISK CONTROL measure.....: (ISO 14971 Cl. 7.1)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
14.7	A documented requirement specification for PEMS and each of its subsystems (e.g. for a PESS) which includes ESSENTIAL PERFORMANCE and RISK CONTROL measures implemented by that system or subsystem.....: (ISO 14971 Cl. 7.2)	RMF Reference to specific RISK CONTROLS: (ISO 14971 Cl. __)	N/A
14.8	An architecture satisfying the requirement is specified for PEMS and each of subsystems: (ISO 14971 Cl. 7.2)	RMF Reference to specific RISK CONTROLS: (ISO 14971 Cl. __)	N/A
14.9	Design is broken up into sub systems and descriptive data on design environment documented.....:		N/A
14.10	A VERIFICATION plan containing the specified information used to verify and document functions implementing BASIC SAFETY, ESSENTIAL PERFORMANCE, or RISK CONTROL measures.....: (ISO 14971 Cl. 7.2)	RMF Reference to specific RISK CONTROLS: (ISO 14971 Cl. __)	N/A
	– milestone(s) when VERIFICATION is to be performed for each function		N/A
	– selection and documentation of VERIFICATION strategies, activities, techniques, and appropriate level of independence of the personnel performing the VERIFICATION		N/A
	– selection and utilization of VERIFICATION tools		N/A
	– coverage criteria for VERIFICATION		N/A
	The VERIFICATION performed according to the VERIFICATION plan and results of the VERIFICATION activities documented		N/A
14.11	A PEMS VALIDATION plan containing validation of BASIC SAFETY & ESSENTIAL PERFORMANCE		N/A
	The PEMS VALIDATION performed according to the PEMS VALIDATION plan with results of PEMS VALIDATION activities and methods used for PEMS VALIDATION documented		N/A
	The person with overall responsibility for PEMS VALIDATION is independent		N/A
	All professional relationships of members of PEMS VALIDATION team with members of design team documented in RISK MANAGEMENT FILE (ISO 14971 Cl. 7.2)	RMF Reference to specific RISK CONTROLS: (ISO 14971 Cl. __)	N/A
14.12	Continued validity of previous design documentation assessed under a documented modification/change PROCEDURE		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Software Classification for Software changes applied in accordance with Clause 4.3 and 4.4 of IEC 62304:2006 and IEC 62304:2006/AMD1:2015.....:	Software Class: __	N/A
	Software Process for Software changes applied according to Clause 5 of IEC 62304:2006 and IEC 62304:2006/ AMD1:2015.....:		N/A
	RISK MANAGEMENT for Software changes applied according to Clause 7 of IEC 62304:2006 and IEC 62304:2006/ AMD1:2015.....:		N/A
	Configuration management of software changes applied per Clause 8 of IEC 62304:2006 and IEC 62304:2006/ AMD1:2015.....:		N/A
	Problem resolution for Software changes applied according to Clause 9 of IEC 62304:2006 and IEC 62304:2006/ AMD1:2015.....:		N/A
14.13	For PEMS incorporated into an IT-NETWORK not VALIDATED by the PEMS MANUFACTURER, instructions made available for implementing the connection include the following.....:		N/A
	a) Purpose of the PEMS connection to an IT-NETWORK		N/A
	b) required characteristics of the IT-NETWORK		N/A
	c) required configuration of the IT-NETWORK		N/A
	d) technical specifications of the network connection, including security specifications		N/A
	e) intended information flow between the PEMS, the IT-NETWORK and other devices on the IT-NETWORK, and the intended routing through the IT-NETWORK		N/A
	f) a list of HAZARDOUS SITUATIONS resulting from failure of the IT-NETWORK to provide the required characteristics (ISO 14971 Cl. 5.2-5.5, 6, 7.1, 7.2)	RMF Reference to specific hazardous situations: (ISO 14971 Cl. __)	N/A
	ACCOMPANYING DOCUMENTS for the RESPONSIBLE ORGANIZATION include the following:		N/A
	– statement that connection to IT-NETWORKS including other equipment could result in previously unidentified RISKS TO PATIENTS, OPERATORS or third parties		N/A
	– Notification that the RESPONSIBLE ORGANIZATION identify, analyse, evaluate and control these RISKS		N/A
	– Notification that changes to the IT-NETWORK could introduce new RISKS that require additional analysis		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- Changes to the IT-NETWORK include: - changes in network configuration - connection of additional items - disconnection of items - update of equipment - upgrade of equipment		N/A
15	CONSTRUCTION OF ME EQUIPMENT		--
15.1	RISKS associated with arrangement of controls and indicators of ME EQUIPMENT addressed through the application of a USABILITY ENGINEERING PROCESS.....:	Refer to IEC 60601-1-6 report	P
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		P
	Inspection, servicing, replacement, and adjustment of parts of ME EQUIPMENT can easily be done without damage to or interference with adjacent parts or wiring		P
15.3	Mechanical strength		P
15.3.1	Mould stress relief, push, impact, drop, and rough handling tests did not result in loss of BASIC SAFETY or ESSENTIAL PERFORMANCE		P
15.3.2	Push test conducted	See Appended Table 15.3	P
	No damage resulting in an unacceptable RISK sustained		P
15.3.3	Impact test conducted.....:	See Appended Table 15.3	P
	No damage resulting in an unacceptable RISK sustained		P
15.3.4	Drop test		P
15.3.4.1	Sample of HAND-HELD ME EQUIPMENT, ACCESSORIES and HAND-HELD part with SAFE WORKING LOAD tested	See Appended Table 15.3	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 withstood stress as demonstrated by test.....:	See Appended Table 15.3	P
	No damage resulting in an unacceptable RISK sustained		P
15.3.5	MOBILE ME EQUIPMENT and MOBILE part with SAFE WORKING LOAD and in most adverse condition in NORMAL USE passed Rough Handling tests.....:	See Appended Table 15.3	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	No damage resulting in an unacceptable RISK sustained		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		P
	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.....:	97.9 °C	P
	No damage resulting in an unacceptable RISK		P
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		P
	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		P
15.4	ME EQUIPMENT components and general assembly		P
15.4.1	Incorrect connection of accessible connectors, removable without a TOOL, prevented where an unacceptable RISK exists,.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	Considered	P
	a) Plugs for connection of PATIENT leads or PATIENT cables cannot be connected to outlets on same ME EQUIPMENT intended for other functions,.....:	See attachment No. __	N/A
	b) Medical gas connections on ME EQUIPMENT for different gases to be operated in NORMAL USE are not interchangeable inspection.....:	See attachment No. __	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.....: (ISO 14971 Cl. 5.2-5.5, 6)	Component, to be evaluated in the final installation	N/A
	b) THERMAL CUT-OUTS with a safety function with reset by a soldering not fitted in ME EQUIPMENT		N/A
	c) An additional independent non-SELF-RESETTING THERMAL CUT-OUT is provided.....: (ISO 14971 Cl. 5.2-5.5)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	d) Operation of THERMAL CUT-OUT or OVER CURRENT RELEASE doesn't result in a HAZARDOUS SITUATION or loss of ESSENTIAL PERFORMANCE: (ISO 14971 Cl. 5.2-5.5)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	e) Capacitors or other spark-suppression devices not connected between contacts of THERMAL CUT-OUTS		N/A
	f) Use of THERMAL CUT-OUTS or OVER-CURRENT RELEASES do not affect safety as verified by following tests		N/A
	- Positive temperature coefficient devices) complied with IEC 60730-1: 2010, Clauses 15, 17, J.15, and J.17		N/A
	- ME EQUIPMENT containing THERMAL CUT-OUTS and OVER-CURRENT RELEASES operated under the conditions of Clause 13.....:	See appended Table 13.2	N/A
	- SELF-RESETTING THERMAL CUT-OUTS and OVER-CURRENT RELEASES including circuits performing equivalent functions Certified according to appropriate standards.....:		N/A
	- In the absence of Certification in accordance with IEC standards, SELF-RESETTING THERMAL CUT-OUTS and OVER-CURRENT RELEASES including circuits performing equivalent functions operated 200 times		N/A
	Manual reset THERMAL CUT-OUTS and OVER-CURRENT RELEASES Certified in accordance with appropriate IEC standards		N/A
	manual reset THERMAL CUT-OUTS and OVER-CURRENT RELEASES operated 10 times		N/A
	Thermal protective devices tested separately from ME EQUIPMENT when engineering judgment indicated test results would not be impacted		N/A
	g) Protective device incorporating a fluid filled container with heating means, operated when heater switched on with container empty and prevented an unacceptable RISK due to overheating		N/A
	h) ME EQUIPMENT with tubular heating elements provided with protection against overheating.....: (ISO 14971 Cl. 5.2-5.5)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	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 provided with ventilation.....: (ISO 14971 Cl. 5.2-5.5)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Battery compartments designed to prevent accidental short circuiting		N/A
15.4.3.2	Means provided to prevent incorrect connection of polarity		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with incorrect connection or replacement of batteries.....: (ISO 14971 Cl. 5.2-5.5)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
15.4.3.3	Overcharging of battery prevented by virtue of design.....:		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with overcharging of batteries.....: (ISO 14971 Cl. 5.2-5.5)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
15.4.3.4	Primary lithium batteries comply with IEC 60086-4		N/A
	Secondary lithium batteries comply with IEC 62133 or IEC 62133-2		N/A
15.4.3.5	A properly RATED protective device provided within INTERNAL ELECTRICAL POWER SOURCE to protect against fire.....:		N/A
	Protective device has adequate breaking capacity		N/A
	Justification for OVER-CURRENT RELEASES or FUSE exclusion is documented		N/A
	Short circuit test between the positive and negative poles of an INTERNAL ELECTRICAL POWER SOURCE between the output and protective device(s) omitted where 2 MOOPs provided, or		N/A
	Short circuit between the positive and negative poles of an INTERNAL ELECTRICAL POWER SOURCE between the output and protective device(s) does not result in any HAZARDOUS SITUATION		N/A
15.4.4	Indicator lights provided to indicate ME EQUIPMENT is ready for.....:	Green indicator	P
	An additional indicator light provided on ME EQUIPMENT with a stand-by state or a warm-up state exceeding 15 s,		N/A
	Indicator lights provided on ME EQUIPMENT incorporating non-luminous heaters to indicate heaters are operational		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with the use of indicator lights for EQUIPMENT incorporating non-luminous heaters.....: (ISO 14971 Cl. 5.2-5.5)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Requirement not applied to heated stylus-pens for recording purposes		N/A
	Indicator lights provided on ME EQUIPMENT to indicate an output exists		N/A
	Colours of indicator lights complied with 7.8.1		P
	Charging mode visibly indicated		P
15.4.5	RISKS associated with pre-set controls addressed in RISK MANAGEMENT PROCESS.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
15.4.6	Actuating parts of controls of ME EQUIPMENT		N/A
15.4.6.1	a) Actuating parts cannot be pulled off or loosened during NORMAL USE	No such parts	N/A
	b) Controls secured so that the indication of any scale always corresponds to the position of the control		N/A
	c) Incorrect connection prevented by adequate construction when it could be separated without use of a TOOL		N/A
	When torque values per Table 30 applied knobs did not rotate	See appended Table 15.4.6	N/A
	Tests conducted with no unacceptable RISK	See appended Table 15.4.6	N/A
15.4.6.2	Stops on rotating/ movable parts of controls are of adequate mechanical strength	See appended Table 15.4.6	N/A
	Torque values in Table 30 applied.....	See appended Table 15.4.6	N/A
	No unexpected change of the controlled parameter when tested.....	See appended Table 15.4.6	N/A
15.4.7	Cord-connected HAND-HELD and foot-operated control devices		N/A
15.4.7.1	a) HAND-HELD control devices of ME EQUIPMENT complied with 15.3.4.1		N/A
	b) Foot-operated control device supported an actuating force of 1350 N in its position of NORMAL USE with no damage.....		N/A
15.4.7.2	Control device of HAND-HELD and foot-operated control devices turned in all possible abnormal positions and placed on a flat surface.....		N/A
	No unacceptable RISK caused by changing control setting when accidentally placed in an abnormal position		N/A
15.4.7.3	a) Foot-operated control device is at least rated IPX1.....	See appended Table 11.6.1 IP Code = __	N/A
	b) ENCLOSURE of foot operated control devices containing electrical circuits is at least IPX6.....	See appended Table 11.6.1 IP Code = __	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
15.4.8	Aluminium wires less than 16 mm ² in cross-sectional area are not used		N/A
15.4.9	a) Oil container in PORTABLE ME EQUIPMENT allows for expansion of oil and is adequately sealed		N/A
	b) Oil containers in MOBILE ME EQUIPMENT sealed to prevent loss of oil during transport		N/A
	A pressure-release device operating during NORMAL USE is provided		N/A
	c) Partially sealed oil-filled ME EQUIPMENT and its parts provided with means for checking the oil level to detect leakage		N/A
	ME EQUIPMENT and technical description examined, and manual tests conducted to confirm compliance with above requirements		N/A
15.5	MAINS SUPPLY TRANSFORMERS OF ME EQUIPMENT and transformers providing separation in accordance with 8.5		P
15.5.1	Overheating		P
15.5.1.1	Transformers of ME EQUIPMENT are protected against overheating.....:	See appended Tables 15.5.1.2 and 15.5.1.3	P
	During tests, windings did not open, no HAZARDOUS SITUATION occurred, and maximum temperatures of windings did not exceed values in Table 31		P
	Dielectric strength test conducted after short circuit and overload tests	See appended Table 15.5.2	P
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	P
	Short circuit applied directly across output windings		P
15.5.1.3	Multiple overload tests conducted on windings:	See appended Table 15.5.1.3	N/A
15.5.2	Transformers operating at a frequency above 1kHz tested according to clause 8.8.3.....:	Above 1 kHz	P
	Transformer windings provided with adequate insulation		N/A
	Dielectric strength tests were conducted	See appended Table 15.5.2	N/A
15.5.3	Transformers forming MEANS OF PROTECTION as required by 8.5 comply with.....:	See appended Table 8.10	P
	- Means provided to prevent displacement of end turns		P
	- protective earth screens with a single turn have insulated overlap		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- Exit of wires form internal windings of toroid transformers protected with double sleeving		N/A
	- insulation between primary and secondary windings complies with 8.8.2		P
	- CREEPAGE DISTANCES and AIR CLEARANCE comply with 8.9.4		P
16	ME SYSTEMS		--
16.1	After installation or subsequent modification, ME SYSTEM didn't result in an unacceptable RISK	Not ME SYSTEM	N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with installation and modification of an ME SYSTEM.....: (ISO 14971 Cl. 5.2-5.5, 6)	RMF Reference to specific RISKS: (ISO 14971 Cl. __)	N/A
	Only HAZARDS arising from combining various equipment to form a ME SYSTEM considered		N/A
	– ME SYSTEM provides the level of safety within the PATIENT ENVIRONMENT equivalent to ME EQUIPMENT complying with this standard		N/A
	– ME SYSTEM provides the level of safety outside PATIENT ENVIRONMENT equivalent to equipment complying with their respective IEC or ISO safety standards		N/A
	– tests performed in NORMAL CONDITION, except as specified		N/A
	– tests performed under operating conditions specified by MANUFACTURER of ME SYSTEM		N/A
	Safety tests previously conducted on individual equipment of ME SYSTEM according to relevant standards not repeated		N/A
	RISK MANAGEMENT methods used by MANUFACTURER of an ME SYSTEM reconfigurable by RESPONSIBLE ORGANIZATION or OPERATOR		N/A
	Non-ME EQUIPMENT used in ME SYSTEM complied with applicable IEC or ISO safety standards		N/A
	Equipment relying only on BASIC INSULATION for protection against electric shock not used in ME SYSTEM		N/A
16.2	ACCOMPANYING DOCUMENTS of an ME SYSTEM		N/A
	Documents containing all data necessary for ME SYSTEM to be used as intended by MANUFACTURER including a contact address accompany ME SYSTEM or modified ME SYSTEM		N/A
	ACCOMPANYING DOCUMENTS regarded as a part of ME SYSTEM		N/A

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

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Clause	Requirement + Test	Result - Remark	Verdict
	– permissible environmental conditions of use for ME SYSTEM including conditions for transport and storage		N/A
	– instructions to OPERATOR not to, simultaneously, touch parts referred to in 16.4 and PATIENT		N/A
	d) the following instructions provided for use by RESPONSIBLE ORGANIZATION:		N/A
	– adjustment, cleaning, sterilization, and disinfection PROCEDURES		N/A
	– assembly of ME SYSTEMS and modifications during actual service life evaluated based on the requirements of this standard		N/A
16.3	Instructions for use of ME EQUIPMENT intended to receive its power from other equipment in an ME SYSTEM, describe the other equipment to ensure compliance with these requirements		N/A
	Transient currents restricted to allowable levels for the specified IPS or UPS		N/A
	Technical description and installation instructions specify the actual transient currents where an IPS or UPS is not specified		N/A
16.4	Parts of non-ME EQUIPMENT in PATIENT ENVIRONMENT subject to contact by OPERATOR during maintenance, calibration, after removal of covers, connectors operated at a voltage \leq voltage in 8.4.2 c)		N/A
16.5	Safety measures incorporating a SEPARATION DEVICE applied when FUNCTIONAL CONNECTION between ME EQUIPMENT and other items of an ME SYSTEM or other systems can cause allowable values of LEAKAGE CURRENT to exceed		N/A
	SEPARATION DEVICE has dielectric strength, CREEPAGE and CLEARANCES required for one MEANS OF OPERATOR PROTECTION		N/A
	WORKING VOLTAGE was highest voltage across SEPARATION DEVICE during a fault condition, but not less than MAXIMUM MAINS VOLTAGE (V).....		N/A
16.6	LEAKAGE CURRENTS		N/A
16.6.1	TOUCH CURRENT in NORMAL CONDITION did not exceed 100 μ A	See appended Table 16.6.1	N/A
	TOUCH CURRENT did not exceed 500 μ A in event of interruption of any non-PERMANENTLY INSTALLED PROTECTIVE EARTH CONDUCTOR	See appended Table 16.6.1	N/A
16.6.2	Current in PROTECTIVE EARTH CONDUCTOR of MULTIPLE SOCKET-OUTLET didn't exceed 5 mA		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
16.6.3	PATIENT LEAKAGE CURRENT and total PATIENT LEAKAGE CURRENT of ME SYSTEM in NORMAL CONDITION did not exceed values	See appended Tables 8.7 8.7.4.7 and 16.6.1	N/A
16.7	ME SYSTEM complied with applicable requirements of Clause 9	See applicable appended Tables in section 9	N/A
16.8	Interruption and restoration power to the ME SYSTEM or any part of the ME SYSTEM did not result in a loss of BASIC SAFETY or ESSENTIAL PERFORMANCE		N/A
16.9	ME SYSTEM connections and wiring		N/A
16.9.1	Incorrect connection of accessible connectors, removable without a TOOL, prevented where unacceptable RISK can result.....:		N/A
	RISK MANAGEMENT FILE includes an assessment of RISKS associated with plugs for connection of PATIENT leads or cables likely to be located in the PATIENT ENVIRONMENT.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	RMF Reference to specific RISKS: (ISO 14971 Cl.____)	N/A
	– Plugs for connection of PATIENT leads or PATIENT cables could not be connected to other outlets of the same ME SYSTEM likely to be located in PATIENT ENVIRONMENT, except when examination of connectors and interchanging them proved no unacceptable RISK results		N/A
	Medical gas connections on the ME SYSTEM for different gasses operated in NORMAL USE are not interchangeable		N/A
16.9.2	MAINS PARTS, components and layout		N/A
16.9.2.1	a) – MULTIPLE SOCKET-OUTLET only allows connection using a TOOL, or		N/A
	– MULTIPLE SOCKET-OUTLET is of a type that cannot accept MAINS PLUGS of any of the kinds specified in IEC/TR 60083, or		N/A
	– MULTIPLE SOCKET-OUTLET is supplied via a separating transformer		N/A
	b) – MULTIPLE SOCKET-OUTLET marked with SAFETY SIGN 2 of Table D.2 visible in NORMAL USE, and		N/A
	– marked either individually or in combinations, with the maximum allowed continuous output in amperes or volt-amperes, or		N/A
	– marked to indicate the equipment or equipment parts it may safely be attached to		N/A
	– MULTIPLE SOCKET-OUTLET is a separate item or an integral part of ME EQUIPMENT or non-ME EQUIPMENT		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	c) MULTIPLE SOCKET-OUTLET complied with IEC 60884-1 and the following requirements:		N/A
	– CREEPAGE and CLEARANCES complied with 8.9		N/A
	– It is CLASS I, and PROTECTIVE EARTH CONDUCTOR is connected to earthing contacts in socket-outlets		N/A
	– PROTECTIVE EARTH TERMINALS and PROTECTIVE EARTH CONNECTIONS comply with 8.6:		N/A
	– ENCLOSURE complied with 8.4.2 d)		N/A
	– MAINS TERMINAL DEVICES and wiring complied with 8.11.4, when applicable		N/A
	– RATINGS of components are not in conflict with conditions of use	See appended Table 8.10	N/A
	– Electrical terminals and connectors of MULTIPLE SOCKET-OUTLETS prevent incorrect connection of accessible connectors removable without a TOOL		N/A
	– POWER SUPPLY CORD complied with 8.11.3		N/A
	d) Additional requirements applied when MULTIPLE SOCKET-OUTLET combined with a separating transformer:		N/A
	– Separating transformer complied with this standard or IEC 61558-2-1,.....:	See appended Table 8.10	N/A
	– Separating transformer is CLASS I		N/A
	– Degree of protection against ingress of water specified as in IEC 60529		N/A
	– Separating transformer assembly marked according to 7.2 and 7.3		N/A
	– MULTIPLE SOCKET-OUTLET permanently connected to separating transformer, or socket-outlet of separating transformer assembly cannot accept MAINS PLUGS as identified in IEC/TR 60083		N/A
16.9.2.2	The impedance between the protective earth pin in the MAINS PLUG and any part that is PROTECTIVELY EARTHED and protected by only the SUPPLY MAINS circuit over-current release, did not exceed 200 mΩ		N/A
	The impedance of an earth pathway protected by an additional intermediate circuit breaker or fuse rated 13A or lower, did not exceed 400 mΩ		N/A
	Removal of any single item of equipment in ME SYSTEM will not interrupt the protective earthing of any other part without simultaneous disconnection of electrical supply to that part		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Additional PROTECTIVE EARTH CONDUCTORS can be detachable only by use of a TOOL		N/A
16.9.2.3	Conductors connecting different items within an ME SYSTEM protected against mechanical damage		N/A
17	ELECTROMAGNETIC COMPATIBILITY OF ME EQUIPMENT AND ME SYSTEMS		--
	RISKS associated confirmed by review.....:		N/E
	RISK MANAGEMENT FILE includes an assessment of risks associated with the introduction of electromagnetic phenomena into the environment by the EQUIPMENT or SYSTEM.....: (ISO 14971 Cl. 5.2-5.5, 6, 7.1-7.4)	Component, to be evaluated in the end-product	N/E

ANNEX G	PROTECTION AGAINST HAZARDS OF IGNITION OF FLAMMABLE ANESTHETIC MIXTURES		--
G.2	Locations and basic requirements		N/A
G.2.1	Parts of CATEGORY APG ME EQUIPMENT in which a FLAMMABLE ANAESTHETIC MIXTURE WITH AIR occurs are CATEGORY AP or APG ME EQUIPMENT and complied with G.3, G.4, and G.5		N/A
G.2.2	FLAMMABLE AESTHETIC MIXTURE WITH		N/A
G.2.3	A FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN or NITROUS OXIDE		N/A
G.2.4	ME EQUIPMENT specified for use with FLAMMABLE AESTHETIC MIXTURE WITH AIR complied with G.4 and G.5		N/A
G.2.5	ME EQUIPMENT or parts thereof for use with FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE comply with G.4 and G.6		N/A
	ME EQUIPMENT in G.2.4 to G.2.5 met appropriate tests of G.3-G.6 conducted after tests of 11.6.6 and 11.6.7		N/A
G.3	Marking, ACCOMPANYING DOCUMENTS		N/A
G.3.1	CATEGORY APG ME EQUIPMENT prominently marked "APG" (symbol 23 in Table D.1)..... :	See copies of Marking Labels	N/A
	Length of green-coloured band is ≥ 4 cm, and size of marking is as large as possible for particular case		N/A
	When above marking not possible, relevant information included in instructions for use		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Marking complied with tests and criteria of 7.1.2 and 7.1.3		N/A
G.3.2	CATEGORY AP ME EQUIPMENT prominently marked, with a green-coloured circle "AP" (symbol 22 in Table D.1)	See copies of Marking Labels	N/A
	Marking is as large as possible for the particular case		N/A
	When above marking not possible, the relevant information included in instructions for use		N/A
	Marking complied with tests and criteria of 7.1.2 and 7.1.3		N/A
G.3.3	The marking placed on major part of ME EQUIPMENT for CATEGORY AP or APG parts		N/A
G.3.4	ACCOMPANYING DOCUMENTS contain an indication enabling the RESPONSIBLE ORGANIZATION to distinguish between CATEGORY AP and APG parts		N/A
G.3.5	Marking clearly indicates which parts are CATEGORY AP or APG when only certain ME EQUIPMENT parts are CATEGORY AP or APG		N/A
G.4	Common requirements for CATEGORY AP and CATEGORY APG ME EQUIPMENT		N/A
G.4.1	a) CREEPAGE and CLEARANCES are according to Table 12 for one MEANS OF PATIENT PROTECTION		N/A
	b) Connections protected against accidental disconnection		N/A
	c) CATEGORY AP and APG not provided with a DETACHABLE POWER SUPPLY CORD,		N/A
G.4.2	Construction details		N/A
	a) Opening of an ENCLOSURE protecting against penetration of gases or vapours into ME EQUIPMENT or its parts possible only with a TOOL		N/A
	b) ENCLOSURE complies with	See appended Table 8.10	N/A
	– no openings on top covers of ENCLOSURE,		N/A
	– openings in side-covers prevented penetration of a solid cylindrical test rod		N/A
	– openings in base plates prevented penetration of a solid cylindrical test		N/A
	c) Short circuiting conductor(s) to a conductive part (when no explosive gasses) did not result in loss of integrity of the part, an unacceptable temperature, or any HAZARDOUS SITUATION		N/A
G.4.3	a) Electrostatic charges prevented on CATEGORY AP and APG ME EQUIPMENT by a combination of appropriate measures		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– Use of antistatic materials with a limited electrical resistance..... :	See appended Table 8.10	N/A
	– Provision of electrically conductive paths from ME EQUIPMENT or its parts to a conductive floor, protective earth or potential equalization system, or via wheels to an antistatic floor		N/A
	b) Electrical resistance limits of aesthetic tubing, mattresses/ pads, castor tires & other antistatic material comply with ISO 2882..... :		N/A
G.4.4	Corona cannot be produced by components or parts of ME EQUIPMENT operating at more than 2000 V a.c. or 2400 V d.c. and not included in ENCLOSURES complying with G.5.4 or G.5.5		N/A
G.5	Requirements and tests for CATEGORY AP ME EQUIPMENT, parts and components		N/A
G.5.1	ME EQUIPMENT, its parts or components do not ignite FLAMMABLE AESTHETIC MIXTURES WITH AIR under NORMAL USE and CONDITIONS based on compliance with G.5.2 to G.5.5		N/A
	Alternatively, ME EQUIPMENT, its parts, and components complied with requirements of IEC 60079-0 for pressurized ENCLOSURES (IEC 60079-2); for sand-filled ENCLOSURES, IEC 60079-5; or for oil immersed equipment, IEC 60079-6; and with this standard excluding G.5.2 to G.5.5..... :		N/A
G.5.2	Temperature limits..... :	See appended Tables 11.1.1 and 11.2.2.1	N/A
G.5.3	ME EQUIPMENT, its parts, and components producing sparks in NORMAL USE and CONDITION complied with temperature requirements of G.5.2, and U_{max} and I_{max} occurring in their circuits, and complied as follows:		N/A
	Measured $U_{max} \leq U_{zR}$ with I_{zR} as in Fig. G.1..... :	$U_{max} = __V$ $U_{zR} = __V$ $I_{zR} = __A$	N/A
	Measured $U_{max} \leq U_c$ with C_{max} as in Fig. G.2..... :	$U_{max} = __V$ $U_c = __V$ $C_{max} = __\mu F$	N/A
	Measured $I_{max} \leq I_{zR}$ with U_{zR} as in Fig G.1..... :	$I_{max} = __A$ $I_{zR} = __A$ $U_{zR} = __V$	N/A
	Measured $I_{max} \leq I_{zL}$ with L_{max} and a $U_{max} \leq 24 V$ as in Fig G.3..... :	$I_{max} = __A$ $I_{zL} = __A$ $L_{max} = __mH$	N/A
	– Combinations of currents and corresponding voltages within the limitations $I_{zR}.U_{zR} \leq 50 W$ extrapolated from Fig G.1		N/A
	No extrapolation made for voltages above 42 V		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– Combinations of capacitances and corresponding voltages within limitations of $C/2U^2 \leq 1.2$ mJ extrapolated from Fig G.2		N/A
	No extrapolation made for voltages above 242V		N/A
	U_{max} determined using actual resistance R		N/A
	– Combinations of currents and corresponding inductances within limitations $L/2I^2 \leq 0.3$ mJ extrapolated from Fig G.3		N/A
	No extrapolation made for inductances larger than 900 mH		N/A
	– U_{max} was the highest supply voltage occurring in circuit under investigation with sparking contact open		N/A
	– I_{max} was the highest current flowing in circuit under investigation with sparking contact closed		N/A
	– C_{max} and L_{max} taken as values occurring at the component under investigation producing sparks		N/A
	– Peak value considered when a.c. supplied		N/A
	– An equivalent circuit calculated to determine equivalent max capacitance, inductance, and equivalent U_{max} and I_{max} , either as d.c. or a.c. peak values in case of a complicated circuit..... :		N/A
	Temperature measurements made according to 11.1, and U_{max} , I_{max} , R, L_{max} , and C_{max} determined with application of Figs G.1-G.3..... :	See appended Table 11.1.1	N/A
	Alternatively, compliance was verified by examination of design data..... :		N/A
G.5.4	External ventilation with internal overpressure		N/A
	ME EQUIPMENT, its parts, and components enclosed in an ENCLOSURE with external ventilation by means of internal overpressure complied with the following requirements:		N/A
	a) FLAMMABLE AESTHETIC MIXTURES WITH AIR t removed by ventilation before EQUIPMENT energized,		N/A
	b) Overpressure inside ENCLOSURE was 75 Pa, min., in NORMAL CONDITION (Pa)..... :		N/A
	Overpressure maintained at the site of potential ignition		N/A
	ME EQUIPMENT could be energized only after the required minimum overpressure was present long enough to ventilate the ENCLOSURE		N/A
	ME EQUIPMENT energized at will or repeatedly when overpressure was continuously present		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	c) Ignition sources de-energized automatically when during operation overpressure dropped below 50 Pa (Pa).....:		N/A
	d) External surface of ENCLOSURE did not exceed 150 °C in 25 °C.....:		N/A
G.5.5	ENCLOSURES with restricted breathing		N/A
	ME EQUIPMENT, its parts, and components enclosed in an ENCLOSURE with restricted breathing complied with the following:		N/A
	a) A FLAMMABLE AESTHETIC MIXTURE WITH AIR did not form inside ENCLOSURE with restricted breathing		N/A
	b) Gasket or sealing material used to maintain tightness complied with aging test B-b of IEC 60068-2-2, Clause 15, at 70 °C ± 2 °C and 96 h.. :	See appended Table 8.10	N/A
	c) Gas-tightness of ENCLOSURE containing inlets for flexible cords maintained		N/A
	Cords are fitted with adequate anchorages to limit stresses as determined by test		N/A
	Overpressure not reduced below 200 Pa		N/A
	Tests waived when examination of ENCLOSURE indicated it is completely sealed or gas-tight without a doubt (100 % degree of certainty)		N/A
	Operating temperature of external surface of ENCLOSURE was ≤ 150 °C in 25 °C (°C).....:		N/A
	Steady state operating temperature of ENCLOSURE also measured (°C)		N/A
G.6	CATEGORY APG ME EQUIPMENT, parts and components thereof		N/A
G.6.1	ME EQUIPMENT, its parts, and components did not ignite FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE under NORMAL USE and SINGLE FAULT CONDITION		N/A
	ME EQUIPMENT, its parts, and components not complying with G.6.3 subjected to a CONTINUOUS OPERATION test		N/A
G.6.2	Parts and components of CATEGORY APG ME EQUIPMENT operating in a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE supplied from a source isolated from earth by insulation equal to one MEANS OF PATIENT PROTECTION and from electrical parts by insulation twice the MEANS OF PATIENT PROTECTION..... :		N/A
G.6.3	Test of G.6.1 waived when the following requirements were met in NORMAL USE and under NORMAL and SINGLE FAULT CONDITIONS..... :		N/A
	a) no sparks produced and temperatures did not exceed 90 °C, or	See Tables 11.1.1, 11.2.2.1 and 13.2	N/A

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	b) a temperature limit of 90 °C not exceeded, sparks produced in NORMAL USE, and SINGLE FAULT CONDITIONS, except U_{max} and I_{max} occurring in their circuits complied with requirements, taking C_{max} and L_{max} into consideration:	See Tables 11.1.1 and 13.2	N/A
	Measured $U_{max} \leq U_{zR}$ with I_{zR} as in Fig. G.4	$U_{max} = _ _ V$ $U_{zR} = _ _ V$ $I_{zR} = _ _ A$	N/A
	Measured $U_{max} \leq U_{zC}$ with C_{max} as in Fig. G.5.....	$U_{max} = _ _ V$ $U_c = _ _ V$ $C_{max} = _ _ \mu F$	N/A
	Measured $I_{max} \leq I_{zR}$ with U_{zR} as in Fig G.4	$I_{max} = _ _ A$ $I_{zR} = _ _ A$ $U_{zR} = _ _ V$	N/A
	Measured $I_{max} \leq I_{zL}$ with L_{max} and a $U_{max} \leq 24 V$ as in Fig G.6	$I_{max} = _ _ A$ $I_{zL} = _ _ A$ $L_{max} = _ _ mH$	N/A
	– Extrapolation from Figs G.4, G.5, and G.6 was limited to areas indicated		N/A
	– U_{max} was the highest no-load voltage occurring in the circuit under investigation, taking into consideration mains voltage variations as in Cl. 4.10		N/A
	– I_{max} was the highest current flowing in the circuit under investigation, considering MAINS VOLTAGE variations as in Cl. 4.10		N/A
	– C_{max} and L_{max} are values occurring in relevant circuit		N/A
	– U_{max} additionally determined with actual resistance R when equivalent resistance R in Fig G.5 was less than 8000 Ω		N/A
	– Peak value considered when a.c. supplied		N/A
	– An equivalent circuit calculated to determine max capacitance, inductance, and U_{max} and I_{max} , either as d.c. or a.c. peak values in case of a complicated circuit		N/A
	– When energy produced in an inductance or capacitance in a circuit is limited by voltage or current-limiting devices, two independent components applied, to obtain the required limitation even when a first fault (short or open circuit) in one of these components		N/A
	- requirement not applied to transformers complying with this standard		N/A
	- requirement not applied to wire-wound current-limiting resistors provided with a protection against unwinding of the wire in case of rupture		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Compliance verified by examination of CATEGORY APG ME EQUIPMENT, parts, and components , or		N/A
	Temperature measurements made in accordance with 11.1	See Table 11.1.1	N/A
	- or U_{max} , I_{max} , R , L_{max} and C_{max} determined together with application of Figs G.4-G.6.....	$U_{max} = _ \text{V}$ $I_{max} = _ \text{A}$ $R = _ \Omega$ $L_{max} = _ \text{mH}$ $C_{max} = _ \mu\text{F}$	N/A
	Alternatively, compliance verified by comparison with design data.....		N/A
G.6.4	ME EQUIPMENT, its parts, and components heating a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE provided with a non-SELF-RESETTING THERMAL CUT-OUT and complied with 15.4.2.1	See appended Table 8.10	N/A
	Current-carrying part of heating element is not in direct contact with FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE		N/A
G.7	Test apparatus for flammable mixtures according to this Clause and Fig G.7		N/A

ANNEX L	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		--
L.1	BASIC, SUPPLEMENTARY, DOUBLE, and REINFORCED INSULATION in wound components without interleaved insulation complied with this Annex		P
L.2	Wire construction		N/A
	Overlap of layers when wire is insulated with two or more spirally wrapped layers of tape is adequate to ensure continued overlap during manufacture of wound component		N/A
	Layers of spirally wrapped wire insulation are sufficiently secured to maintain the overlap		N/A
L.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		N/A
	Temperature (°C).....		—
	Humidity (%)		—
L.3.1	Dielectric strength		N/A
	Dielectric strength test of Clause 8.8.3 for the appropriate type and number of MOP(s) conducted with no breakdown:		N/A
	– 3000 V for BASIC and SUPPLEMENTARY INSULATION (V)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	– 6000 V for REINFORCED INSULATION (V)		N/A
L.3.2	Flexibility and adherence		N/A
	Sample subjected to flexibility and adherence		N/A
	Sample examined per IEC 60851-3: 1997, cl. 5.1.1.4, followed by dielectric test of cl. 8.8.3, with no breakdown		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
	Tension applied to wire during winding on mandrel calculated from the wire diameter equivalent to 118 MPa ± 11.8 MPa		N/A
L.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		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
	Oven temperature based on Table L.2 (°C)		—
	Mandrel diameter and tension applied as in clause L.3.2, (MPa; N/mm ²)		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		N/A
	Five samples prepared as in L.3.2 subjected to dielectric strength and bending tests		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/mm ²)		N/A
L.4	Tests during manufacture		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
L.4.1	Production line dielectric strength tests done by the manufacture per L.4.2 and L.4.3	See attached manufacturer's routine testing verification	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:		N/A
	– 1500 V r.m.s. or 2100 V peak for BASIC and SUPPLEMENTARY INSULATION (V)	See manufacturer's routine testing verification	N/A
	– 3000 V r.m.s. or 4200 V peak for REINFORCED INSULATION (V).....	See manufacturer's routine testing verification	N/A
L.4.3	Sampling tests conducted using twisted pair samples (IEC 60851-5:1996, clause 4.4.1)	See manufacturer's routine testing verification	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	See manufacturer's routine testing verification	N/A
	– 6000 V r.m.s. or 8400 V peak for REINFORCED INSULATION	See manufacturer's routine testing verification	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

4.2.2	RM RESULTS TABLE: General requirements for RISK MANAGEMENT		P	
Clause of ISO 14971	Document Ref. in RMF (Document No. paragraph/clause, version)		Result - Remarks	Verdict
	General process	Particular Medical Device		
4.1	Risk management procedure GTQPR05000, A2	—	Risk Management Process (excluding production and post-production)	P
4.2	Risk management procedure GTQPR05000, 4, A2	—	Adequate Resources	P
4.2	Risk management procedure GTQPR05000, 4, A2	—	Assignment of qualified personnel	P
4.2	Risk management procedure GTQPR05000, 5, A2	—	Policy for determining criteria for risk acceptability	P
4.3	—	GT-RMPLAN2023-001, 1.2, A.0	Competence of personnel	P
4.4a	—	GT-RMPLAN2023-001, 1.1, A.0	Risk Management Plan - the scope of the planned risk management activities	P
4.4b	—	GT-RMPLAN2023-001, 1.2, A.0	Risk Management Plan - assignment of responsibilities and authorities	P
4.4c	—	GT-RMPLAN2023-001, 1.5, A.0	Risk Management Plan - requirements for review of risk management activities	P
4.4d	—	GT-RMPLAN2023-001, 1.3, A.0	Risk Management Plan - criteria for risk acceptability	P
4.4e	—	GT-RMPLAN2023-001, 1.4, A.0	Risk Management Plan - a method to evaluate the overall residual risk, and criteria for acceptability of the overall residual risk	P
4.4f	—	GT-RMPLAN2023-001, 1.5, A.0	Risk Management Plan - activities for verification of the implementation and effectiveness of risk control measures	P
4.5	—	GT-RMPLAN2023-001, 1.4, A.0	Risk Management File	P
5.1	—	GT-RM2023-001, 3, A.0	Risk Analysis - Process	P
5.2	—	GT-RM2023-001, 5, A.0	Risk Analysis - Intended use and reasonably foreseeable misuse	P
5.3	—	GT-RM2023-001, 6.1, A.0	Risk Analysis - Identification of characteristics related to safety	P

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Clause	Requirement + Test		Result - Remark	Verdict
4.2.2	RM RESULTS TABLE: General requirements for RISK MANAGEMENT			P
Clause of ISO 14971	Document Ref. in RMF (Document No. paragraph/clause, version)		Result - Remarks	Verdict
	General process	Particular Medical Device		
5.4	—	GT-RM2023-001, 6.2 & 6.3, A.0	Risk Analysis - Identification of hazards and hazardous situations	P
5.5	—	GT-RM2023-001, 6.4, A.0	Risk Analysis - Risk estimation	P
6	—	GT-RM2023-001, 7, A.0	Risk Evaluation	P
7.1	—	GT-RM2023-001, 8, A.0	Risk Control - Risk control option analysis	P
7.2	—	GT-RM2023-001, 8.1, A.0	Risk Control - Implementation of risk control measures	P
7.3	—	GT-RM2023-001, 8.2, A.0	Risk Control - Residual risk evaluation	P
7.4	—	GT-RM2023-001, 8.3, A.0	Risk Control - Benefit-risk analysis	P
7.5a	—	GT-RM2023-001, 8.1, A.0	Risk Control - Risks arising from risk control measures (new hazards or hazardous situations introduced)	P
7.5b	—	GT-RM2023-001, 8.1, A.0	Risk Control - Risks arising from risk control measures (estimated risks for previously identified hazardous situations affected)	P
7.6	—	GT-RM2023-001, 10.1, A.0	Risk Control - Completeness of risk control	P
8	—	GT-RM2023-001, 10.2, A.0	Evaluation of overall residual risk	P
9	—	GT-RM2023-001, 10, A.0	Risk management review	P
Supplementary Information: Document Ref should be with regards to the policy/procedure documents and documents containing Risk Management Process -specific output.				

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Clause	Requirement + Test	Result - Remark	Verdict

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

4.11	TABLE: Power Input					P
Operating Conditions / Ratings	Voltage (V)	Frequency (Hz)	Current (A)	Power (W or VA)	Power factor (cos φ)	
Max load 20V, 5A, 100W	90	50	1.291	115.4	0.990	
	100	50	1.156	114.9	0.991	
	240	50	0.499	113.6	0.945	
	264	50	0.463	113.6	0.929	
	90	60	1.289	115.3	0.992	
	100	60	1.156	114.7	0.992	
	240	60	0.507	113.7	0.933	
	264	60	0.470	113.6	0.915	
Max load 21V, 100W	90	50	1.286	114.9	0.992	
	100	50	1.150	114.2	0.992	
	240	50	0.499	113.1	0.946	
	264	50	0.461	113.1	0.928	
	90	60	1.283	114.8	0.992	
	100	60	1.151	114.3	0.992	
	240	60	0.506	113.1	0.932	
	264	60	0.468	113.4	0.912	
Load: 3.3 V, 5 A	90	50	0.240	20.5	0.943	
	100	50	0.219	20.5	0.928	
	240	50	0.133	21.4	0.676	
	264	50	0.127	21.4	0.634	
	90	60	0.241	20.7	0.953	
	100	60	0.220	20.9	0.934	

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Clause	Requirement + Test	Result - Remark			Verdict	
4.11	TABLE: Power Input				P	
Operating Conditions / Ratings		Voltage (V)	Frequency (Hz)	Current (A)	Power (W or VA)	Power factor (cos φ)
		240	60	0.143	22.0	0.640
		264	60	0.149	21.5	0.552
Supplementary Information: Input: 100-240V~, 50-60Hz, 1.5A						

5.9.2	TABLE: Determination of ACCESSIBLE parts		P
Location	Determination method (NOTE1)	Comments	
Enclosure surface	visual	accessible	
Output port	Jointed test finger	accessible	
Supplementary information: 1) NOTE: The determination methods are: visual; rigid test finger; jointed test finger; test hook.			

7.1.2	TABLE: Legibility of Marking		P
Markings tested	Ambient Illuminance (lx)	Remarks	
Outside Markings (Clause 7.2)	100-1500	Legible	
Inside Markings (Clause 7.3)	100-1500	Legible	
Controls & Instruments (Clause 7.4)	--	N/A	
SAFETY SIGNS (Clause 7.5)	--	N/A	
Symbols (Clause 7.6).....	100-1500	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.			

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7.1.3	TABLE: Durability of marking test		P
Characteristics of the Marking Label tested:			Remarks
Material of Marking Label	Plastic	After the rub tests, rating label still legible and durable	
Ink/other printing material or process	Ink		
Material (composition) of Warning Label	--	--	
Ink/other printing material or process	--	--	
Other	--	--	
Marking Label Tested:			Remarks
--			--
Supplementary information:			
Marking rubbed by hand, first for 15 s with a cloth rag soaked with distilled water, then for 15 s with a cloth rag soaked with ethanol 96%, and then for 15 s with a cloth rag soaked with isopropyl alcohol.			

8.4.2	TABLE: TABLE: Working Voltage / Power Measurement					N/A
Test supply voltage/frequency (V/Hz) ¹⁾						
Location From/To	Measured values					Remarks
	Vrms	Vpk or Vdc	Peak-to-peak ripple ²⁾	Power W/VA	Energy (J)	
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 ³⁾ Voltage measurement of all conductive ACCESSIBLE PARTS of the SIP/SOP connection or separate power supply output connections to earth used a resistor of 10 k Ω + 500 Ω . See clause 8.4.2						

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Clause	Requirement + Test	Result - Remark	Verdict

8.4.3	TABLE: ME EQUIPMENT for connection to a power source by a plug - measurement of voltage or calculation of stored charge 1 s after disconnection of plug from mains supply									P
Maximum allowable voltage (V).....:									60	
Voltage measured (V)										
Voltage Measured Between:	1	2	3	4	5	6	7	8	9	10
Plug pins 1 and 2	4	3	4	3	4	4	3	5	4	2
Plug pin 1 and plug earth pin	4	0	2	0	4	0	3	0	4	3
Plug pin 2 and plug earth pin	0	0	4	2	2	3	0	2	0	4
Plug pin 1 and enclosure	--	--	--	--	--	--	--	--	--	--
Plug pin 2 and enclosure	--	--	--	--	--	--	--	--	--	--
Maximum allowable stored charge when measured voltage exceeded 60 v (μC)									45	
Calculated stored charge (μC)										
Voltage Measured Between:	1	2	3	4	5	6	7	8	9	10
Plug pins 1 and 2	--	--	--	--	--	--	--	--	--	--
Plug pin 1 and plug earth pin	--	--	--	--	--	--	--	--	--	--
Plug pin 2 and plug earth pin	--	--	--	--	--	--	--	--	--	--
Plug pin 1 and enclosure	--	--	--	--	--	--	--	--	--	--
Plug pin 2 and enclosure	--	--	--	--	--	--	--	--	--	--
Supplementary information:										

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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			N/A
Maximum allowable residual voltage (V)..... :				60 V
Maximum allowable stored charge when residual voltage exceeded 60 V :				45 μC
Description of the capacitive circuit (i.e., accessible capacitor or circuit parts)	Measured residual voltage (V)	Calculated stored charge (μ C)	Remarks	
Supplementary information:				

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

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

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Clause	Requirement + Test	Result - Remark	Verdict

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

8.6.4	TABLE: Impedance and current-carrying capability of PROTECTIVE EARTH CONNECTIONS				P
Type of ME EQUIPMENT & impedance measured between parts	Test current (A) /Duration (s)	Voltage drop measured between parts (V)	Maximum calculated impedance (mΩ)	Maximum allowable impedance (mΩ)	
GTM961005P-100PD-USBCP-T3A & Earthing pin of appliance inlet to USB output negative	25 / 10	0.998	43	100	
GTM961005P-100PD-USBCP-T3 & Earthing pin of appliance inlet to Earthing connection on PCB	25 / 10	0.209	8	100	
Supplementary information: PERMANENTLY INSTALLED ME EQUIPMENT, impedance between PROTECTIVE EARTH TERMINAL and a PROTECTIVELY EARTHED part - Limit 100 mΩ ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part - Limit 100 mΩ ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the protective earth pin on the DETACHABLE POWER SUPPLY CORD and a PROTECTIVELY EARTHED part - Limit 200 mΩ ME EQUIPMENT with a non-DETACHABLE POWER SUPPLY CORD, impedance between the protective earth pin in the MAINS PLUG and a PROTECTIVELY EARTHED part - Limit 200 mΩ Under load: 21 V _~ , 100 W					

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Clause	Requirement + Test	Result - Remark	Verdict

8.7	TABLE: leakage current			P
Type of leakage current and test condition (including single faults)	Supply voltage (V)	Supply frequency (Hz)	Measured max. value (µA)	Remarks
Fig. 13 - Earth Leakage (ER)	—	—	—	Maximum allowed values: 5 mA NC; 10 mA SFC
For GTM961005P-100PD-USBCP-T3A:				
NC, S1=1, S5=1	264	60	64.6 / 67.2	B / A, frequency-weighted
NC, S1=1, S5=0	264	60	62.8 / 65.2	B / A, frequency-weighted
SFC, S1=0, S5=1	264	60	114.2 / 117.1	B / A, frequency-weighted
SFC, S1=0, S5=0	264	60	114.9 / 117.6	B / A, frequency-weighted
NC, S1=1, S5=1	264	60	132.5 / 135.2	B / A, non-frequency-weighted
NC, S1=1, S5=0	264	60	90.8 / 93.4	B / A, non-frequency-weighted
SFC, S1=0, S5=1	264	60	218.3 / 221.1	B / A, non-frequency-weighted
SFC, S1=0, S5=0	264	60	214.8 / 217.2	B / A, non-frequency-weighted
For GTM961005P-100PD-USBCP-T3:				
NC, S1=1, S5=1	264	60	86.4 / 89.4	B / A, frequency-weighted
NC, S1=1, S5=0	264	60	83.6 / 87.6	B / A, frequency-weighted
SFC, S1=0, S5=1	264	60	147.2 / 152.4	B / A, frequency-weighted
SFC, S1=0, S5=0	264	60	147.3 / 151.3	B / A, frequency-weighted
NC, S1=1, S5=1	264	60	144.2 / 147.2	B / A, non-frequency-weighted
NC, S1=1, S5=0	264	60	129.0 / 133.0	B / A, non-frequency-weighted
SFC, S1=0, S5=1	264	60	248.7 / 249.2	B / A, non-frequency-weighted
SFC, S1=0, S5=0	264	60	247.2 / 250.3	B / A, non-frequency-weighted
Fig. 14 - Touch Current (TC)	—	—	—	Maximum allowed values: 100 µA NC; 500 µA SFC
GTM961005P-100PD-USBCP-T3A, Enclosure to earth:				
NC, S1=1, S5=1, S7=1	264	60	<1 / <1	B / A, frequency-weighted
NC, S1=1, S5=0, S7=1	264	60	<1 / <1	B / A, frequency-weighted
SFC, S1=1, S5=1, S7=0	264	60	64.6 / 67.2	B / A, frequency-weighted
SFC, S1=1, S5=0, S7=0	264	60	62.8 / 65.2	B / A, frequency-weighted
SFC, S1=0, S5=1, S7=1	264	60	<1 / <1	B / A, frequency-weighted
SFC, S1=0, S5=0, S7=1	264	60	<1 / <1	B / A, frequency-weighted
NC, S1=1, S5=1, S7=1	264	60	30.37 / 33.29	B / A, non-frequency-weighted
NC, S1=1, S5=0, S7=1	264	60	17.11 / 20.07	B / A, non-frequency-weighted
SFC, S1=1, S5=1, S7=0	264	60	30.14 / 30.11	B / A, non-frequency-weighted
SFC, S1=1, S5=0, S7=0	264	60	17.07 / 20.01	B / A, non-frequency-weighted
SFC, S1=0, S5=1, S7=1	264	60	8.99 / 11.87	B / A, non-frequency-weighted

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Clause	Requirement + Test		Result - Remark	Verdict
Type of leakage current and test condition (including single faults)	Supply voltage (V)	Supply frequency (Hz)	Measured max. value (µA)	Remarks
SFC, S1=0, S5=0, S7=1	264	60	8.97 / 12.92	B / A, non-frequency-weighted
GTM961005P-100PD-USBCP-T3A, Enclosure to enclosure:				
NC, S1=1, S5=1, S7=1	264	60	<1 / <1	B / A, frequency-weighted
NC, S1=1, S5=0, S7=1	264	60	<1 / <1	B / A, frequency-weighted
SFC, S1=1, S5=1, S7=0	264	60	<1 / <1	B / A, frequency-weighted
SFC, S1=1, S5=0, S7=0	264	60	<1 / <1	B / A, frequency-weighted
SFC, S1=0, S5=1, S7=1	264	60	<1 / <1	B / A, frequency-weighted
SFC, S1=0, S5=0, S7=1	264	60	<1 / <1	B / A, frequency-weighted
NC, S1=1, S5=1, S7=1	264	60	20.96 / 23.91	B / A, non-frequency-weighted
NC, S1=1, S5=0, S7=1	264	60	10.73 / 13.70	B / A, non-frequency-weighted
SFC, S1=1, S5=1, S7=0	264	60	24.84 / 27.72	B / A, non-frequency-weighted
SFC, S1=1, S5=0, S7=0	264	60	2.68 / 5.62	B / A, non-frequency-weighted
SFC, S1=0, S5=1, S7=1	264	60	2.53 / 5.46	B / A, non-frequency-weighted
SFC, S1=0, S5=0, S7=1	264	60	2.54 / 5.45	B / A, non-frequency-weighted
GTM961005P-100PD-USBCP-T3A, Output to enclosure:				
NC, S1=1, S5=1, S7=1	264	60	3.52 / 5.32	B / A, frequency-weighted
NC, S1=1, S5=0, S7=1	264	60	3.64 / 5.44	B / A, frequency-weighted
SFC, S1=1, S5=1, S7=0	264	60	4.31 / 5.86	B / A, frequency-weighted
SFC, S1=1, S5=0, S7=0	264	60	4.25 / 5.82	B / A, frequency-weighted
SFC, S1=0, S5=1, S7=1	264	60	5.41 / 6.33	B / A, frequency-weighted
SFC, S1=0, S5=0, S7=1	264	60	5.45 / 6.35	B / A, frequency-weighted
NC, S1=1, S5=1, S7=1	264	60	9.98 / 12.84	B / A, non-frequency-weighted
NC, S1=1, S5=0, S7=1	264	60	9.86 / 12.96	B / A, non-frequency-weighted
SFC, S1=1, S5=1, S7=0	264	60	8.46 / 11.63	B / A, non-frequency-weighted
SFC, S1=1, S5=0, S7=0	264	60	8.66 / 11.75	B / A, non-frequency-weighted
SFC, S1=0, S5=1, S7=1	264	60	11.93 / 14.64	B / A, non-frequency-weighted
SFC, S1=0, S5=0, S7=1	264	60	11.78 / 14.55	B / A, non-frequency-weighted
GTM961005P-100PD-USBCP-T3, Output to earth:				
NC, S1=1, S5=1, S7=1	264	60	1.06 / 3.21	B / A, frequency-weighted
NC, S1=1, S5=0, S7=1	264	60	1.12 / 3.34	B / A, frequency-weighted
SFC, S1=1, S5=1, S7=0	264	60	90.4 / 94.7	B / A, frequency-weighted
SFC, S1=1, S5=0, S7=0	264	60	90.8 / 93.8	B / A, frequency-weighted
SFC, S1=0, S5=1, S7=1	264	60	5.77 / 8.03	B / A, frequency-weighted

IEC 60601-1				
Clause	Requirement + Test	Result - Remark		Verdict
Type of leakage current and test condition (including single faults)	Supply voltage (V)	Supply frequency (Hz)	Measured max. value (µA)	Remarks
SFC, S1=0, S5=0, S7=1	264	60	5.80 / 8.14	B / A, frequency-weighted
NC, S1=1, S5=1, S7=1	264	60	6.13 / 8.94	B / A, non-frequency-weighted
NC, S1=1, S5=0, S7=1	264	60	6.13 / 8.97	B / A, non-frequency-weighted
SFC, S1=1, S5=1, S7=0	264	60	94.8 / 97.84	B / A, non-frequency-weighted
SFC, S1=1, S5=0, S7=0	264	60	95.2 / 98.07	B / A, non-frequency-weighted
SFC, S1=0, S5=1, S7=1	264	60	5.77 / 8.05	B / A, non-frequency-weighted
SFC, S1=0, S5=0, S7=1	264	60	5.80 / 8.17	B / A, non-frequency-weighted
Fig. 15 - Patient Leakage Current (P)	—	—	—	Maximum allowed values: Type B or BF AP: 10 µA NC; 50 µA SFC (d.c. current); 100 µA NC; 500 µA SFC (a.c.) Type CF AP: 10 µA NC; 50 µA SFC (d.c. or a.c. current)
To be evaluated in end-product				
Fig. 16 - Patient leakage current with mains on the F-type applied parts (PM)	—	—	—	Maximum allowed values: Type B: N/A Type BF AP: 5000 µA Type CF AP: 50 µA
To be evaluated in end-product				
Fig. 17 - Patient leakage current with external voltage on Signal Input/Output part (SIP/SOP)	—	—	—	Maximum allowed values: Type B or BF AP: 10 µA NC; 50 µA SFC(d.c. current); 100 µA NC; 500 µA SFC (a.c.) ; Type CF AP: 10 µA NC; 50 µA SFC (d.c. or a.c. current)
To be evaluated in end-product				
Fig. 18 - Patient leakage current with external voltage on metal Accessible Part that is not Protectively Earthed	—	—	—	Maximum allowed values: Type B or BF AP: 500 µA Type CF: N/A
To be evaluated in end-product				
Fig. 19 – Patient Auxiliary Current	—	—	—	Maximum allowed values: Type B or BF AP: 10 µA NC; 50 µA SFC (d.c. current); 100 µA NC; 500 µA SFC (a.c.) ; Type CF AP: 10 µA NC; 50 µA SFC (d.c. or a.c. current)
To be evaluated in end-product				
Fig. 15 and 20 – Total Patient Leakage Current with all AP of same type connected together	—	—	—	Maximum allowed values: Type B or BF AP: 50 µA NC; 100µA SFC (d.c. current);

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Clause	Requirement + Test	Result - Remark	Verdict

Type of leakage current and test condition (including single faults)	Supply voltage (V)	Supply frequency (Hz)	Measured max. value (µA)	Remarks
				500 µA NC; 1000 µA SFC (a.c.); Type CF AP: 50 µA NC; 100 µA SFC (d.c. or a.c. current)
To be evaluated in end-product				
Fig. 17 and 20 – Total Patient Leakage Current with all AP of same type connected together with external voltage on SIP/SOP	—	—	—	Maximum allowed values: Type B or BF AP: 50 µA NC; 100µA SFC (d.c. current); 500 µA NC;1000 µA SFC (a.c.); Type CF AP: 50 µA NC; 100 µA SFC (d.c. or a.c. current)
To be evaluated in end-product				
Fig. 16 and 20 – Total Patient Leakage Current with all AP of same type connected together with external voltage on F-type AP	—	—	—	Maximum allowed values: Type B: NA Type BF: 5000 µA Type CF: 100 µA
To be evaluated in end-product				
Fig. 18 and 20 – Total Patient Leakage Current with all AP of same type connected together with external voltage on metal Accessible Part not Protectively Earthed	—	—	—	Maximum allowed values: Type B & BF: 1000 µA Type CF: N/A
To be evaluated in end-product				
Function Earth Conductor Leakage Current (FECLC)	—	—	—	Maximum allowed values: 5 mA NC; 10 mA SFC
To be evaluated in end-product				

Supplementary information:

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).

GTM961005P-100PD-USBCP-T3 with Earthing type F2; GTM961005P-100PD-USBCP-T3A with Earthing type E1 were tested, under load: 21 V_~, 100 W.

Fig. 14 - Touch Current (TC): For CLASS II ME equipment, the PROTECTIVE EARTH CONNECTION and S7 are not used.

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Clause	Requirement + Test	Result - Remark		Verdict
Type of leakage current and test condition (including single faults)	Supply voltage (V)	Supply frequency (Hz)	Measured max. value (µA)	Remarks
ER - Earth leakage current TC – Touch current P - Patient leakage current PA – Patient auxiliary current TP – Total Patient current PM - Patient leakage current with mains on the applied parts MD - Measuring device				A - After humidity conditioning, immediately IPX2 testing 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

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

8.8.3	TABLE: Dielectric strength test of solid insulating materials with safety function – MEANS OF OPERATOR PROTECTION (MOOP) / MEANS OF PATIENT PROTECTION (MOPP)				P
Insulation under test (area from insulation diagram)	Insulation Type (1 or 2 MOOP/MOPP)	Reference Voltage		A.C. test voltages in V r.m.s ¹⁾	Dielectric breakdown after 1 minute Yes/No ²⁾
		PEAK WORKING VOLTAGE (U) V _{peak}	PEAK WORKING VOLTAGE (U) V d.c.		
B (Secondary circuit to core of transformer)	2 MOPP	679.5	-	4950	A), C), D) No
C (Primary circuit to secondary circuit)	2 MOPP	679.5	-	4950	A), C), D) No
D (Primary circuit to enclosure surface)	2 MOPP	339	-	4000	A), C), D) No
E (CY1)	1 MOPP	339	-	1500	A), C), D) No
F (CY2)	1 MOPP	339	-	1500	A), C), D) No
G (Primary circuit to earth)	1 MOPP	339	-	1500	A), C), D) No
1 layer of insulation tape	2 MOPP	679.5	-	4950	A), C), D) No
Supplementary information:					
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).					

8.8.4.1	TABLE: Resistance to heat - Ball pressure test of thermoplastic parts		P
	Allowed impression diameter (mm)	≤ 2 mm	—
	Force (N).....	20	—
Part/material	Test temperature (°C)	Impression diameter (mm)	
Enclosure	87.9	1.0	
PCB	125	0.4	
Bobbin of transformer	125	0.5	

Supplementary information:
 resistance to heat for insulation of thermoplastic materials that used as SUPPLEMENTARY INSULATION or REINFORCED INSULATION established by performing the ball-pressure test in at a temperature 25 °C higher than the temperature of the insulation measured during the tests of 13.2.2 to 13.2.13 (inclusive).

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

8.9.2	TABLE: Short circuiting of each single one of the CREEPAGE DISTANCES and AIR CLEARANCES for insulation in the MAINS PART between parts of opposite polarity in lieu of complying with the required measurements in 8.9.4			N/A
Specific areas of circuits short-circuited and test conditions	Test in lieu of CREEPAGE DISTANCE or AIR CLEARANCE ¹⁾	HAZARDOUS SITUATION observed (i.e., fire hazard, shock hazard, explosion, discharge of parts, etc.)? Yes/No	Remarks	

Supplementary information:
¹⁾Note: AC - AIR CLEARANCE CD - CREEPAGE DISTANCE

8.9.3.2	Table: Thermal cycling tests on one sample of insulating compound forming solid insulation between conductive parts			N/A
Part Test	8.9.3.4 - Test duration and temperature for 10 cycles after which the sample was subjected to Humidity Preconditioning per Cl. 5.7	Dielectric test voltage	Dielectric strength test after humidity preconditioning per cl. 5.7 except for 48 h only, Breakdown: Yes/No	Crack or voids in the insulating compound: Yes/No
	68 h at $T1 \pm 2 \text{ }^\circ\text{C} = \text{___ }^\circ\text{C}$ ¹⁾			
	1 h at $25 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$			
	2 h at $0 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$			
	1 or more h at $25 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$			

Supplementary information:
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

8.9.3.3	Table: Thermal cycling tests on one sample of cemented joint with other insulating parts (see 8.9.3.3)			N/A
Part tested	Sample	Each test duration and temperature	Dielectric test voltage	Dielectric strength test Breakdown: Yes/No
	1	10 Cycles conducted of the following:		
		1 - 68 h at $T1 \pm 2 \text{ }^\circ\text{C} = \text{___ }^\circ\text{C}^1$		
		2 - 1 h at $25 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$		
		3 - 2 h at $0 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$		
		4 - 1 or more h at $25 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$		
	2	Humidity Conditioning per 5.7		
	3	Humidity Conditioning per 5.7		

Supplementary information:

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.

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

8.10	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
AC inlet for Class I model (C6 type)	LECI Electronics Co., Ltd.	DB-6	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 60320-1	VDE 40032465 UL E302229	
Alt.	Rich Bay Co., Ltd.	R-30790	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 60320-1	VDE 40030381 UL E184638	
Alt.	Sun Fair Electric Wire & Cable (HK)Co. Ltd	S-02	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 498	VDE 40034448 UL E226643	
Alt.	TECX-UNIONS Technology Corporation	TU-333 series	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 60320-1	ENEC-01933 UL E220004	
Alt.	Rong Feng Industrial Co., Ltd.	RF-190	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 60320-1	VDE 40030379 UL E102641	
Alt.	ZHE JIANG BEI ER JIA ELECTRONIC CO LTD	ST-A04-001, ST-A04-002	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 60320-1	VDE 40016045 UL E225980	
AC inlet for Class I model (C14 type)	LECI Electronics Co., Ltd.	DB-14	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 60320-1	VDE 40032137 UL E302229	
Alt.	Rich Bay Co., Ltd.	R-301SN	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 60320-1	VDE 40030228 UL E184638	
Alt.	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-03	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 498	VDE 40034447 UL E226643	
Alt.	TECX-UNIONS Technology Corporation	TU-301-S, TU-301-SP	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 60320-1	ENEC-01898- M1 UL E220004	
Alt.	Rong Feng Industrial Co., Ltd.	SS-120	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 60320-1	VDE 40028101 UL E102641	
Alt.	ZHE JIANG BEI ER JIA ELECTRONIC CO LTD	ST-A01-001L ST-A01-002L ST-A01-003J ST-A01-003K	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 60320-1	VDE40013388 UL E225980	

IEC 60601-1					
Clause	Requirement + Test			Result - Remark	Verdict
Appliance inlet for Class II model (C8 type)	LECI Electronics Co., Ltd.	DB-8	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 60320-1	VDE 40032028 UL E302229
Alt.	Rich Bay Co., Ltd.	R-201SN90	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 60320-1	VDE 40030384 UL E184638
Alt.	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-01	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 498	VDE 40034449 UL E226643
Alt.	TECX-UNIONS Technology Corporation	SO-222 series	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 60320-1	ENEC-02099 UL E220004
Alt.	Rong Feng Industrial Co., Ltd.	RF-180	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 60320-1	VDE 40030168 UL E102641
Alt	ZHE JIANG BEI ER JIA ELECTRONIC CO LTD	ST-A03-008B, ST-A03-005	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 60320-1	ENEC-01508-M1 UL E225980
Appliance inlet for Class II model (C18 type)	Rong Feng Industrial Co., Ltd	SS-120	10A, 250V	IEC/EN 60320-1	VDE40028101
Alt.	HCR ELECTRONICS CO., LTD	SK05	10A, 250V	IEC/EN 60320-1	CB:NO69247
PCB	GUANGDE BOYA XINXIANG ELECTRONIC TECHNOLOGY CO LTD	BY-1	Min. V-0, min 1.6 mm thickness , 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E475783
Alt.	SHUANG MING INDUSTRY CO LTD	T005V0, T015V0	Min. V-0, min 1.6 mm thickness, 130°C	UL 796	UL E78017
Alt.	JIANGXI ZHONG XIN HUA ELECTRONICS INDUSTRY CO LTD	ZXH-1, ZXH-2	Min. V-0, min 1.6 mm thickness, 130°C	UL 796	UL E331298

IEC 60601-1					
Clause	Requirement + Test			Result - Remark	Verdict
Alt.	SHENZHEN JIA LI CHUANG TECHNOLOGY DEVELOPMENT CO LTD	JLC-1, JLC-2	Min. V-0, min 1.6 mm thickness, 130°C	UL 796	UL E479892
Alt.	Interchangeable	Interchangeable	Min. V-0, min 1.6 mm thickness, 130°C	UL 796	UL Approved.
Fuse (F1, F2) (F2 is optional for Class II models)	Conquer Electronics Co., Ltd.	MST	T3.15A, 250V	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40017118 UL E82636
Alt.	Suzhou Walter Electronic Co., Ltd.	2010	T3.15A, 250V	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40018781 UL E56092
Alt.	Bel Fuse Ltd.	RST	T3.15A, 250V	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40011144 UL E20624
Alt.	Conquer Electronics Co., Ltd.	MET	T3.15A, 250V	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40017157 UL E82636
X capacitor (CX1) (optional)	Cheng Tung Industrial Co., Ltd.	CTX	X1 or X2, AC310V, 110 °C Max. 0.47µF,	IEC/EN 60384-14 UL 60384-14	ENEC-02671 UL E193049
Alt.	Tenta Electric Industrial Co. Ltd.	MEX	X1 or X2, AC275V, 100 °C Max. 0.47µF,	IEC/EN 60384-14 UL 60384-14	VDE 119119 UL E222911
Alt.	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	X1 or X2, AC275V, 110 °C Max. 0.47µF,	IEC/EN 60384-14 UL 60384-14	VDE40024534 UL E183780
Alt.	Dain Electronics Co., Ltd.	MPX, MEX, NPX	X1 or X2, AC275V, 110 °C Max. 0.47µF,	IEC/EN 60384-14 UL 60384-14	VDE 40018798 UL E147776
Alt.	Shantou High-New Technology Dev.Zone Songtian Enterprise Co., Ltd.	MPX	X1 or X2, AC275V, 110 °C Max. 0.47µF	IEC/EN 60384-14 UL 60384-14	VDE 40034679 UL E208107

IEC 60601-1					
Clause	Requirement + Test			Result - Remark	Verdict
Varistor (MOV1) (optional)	Xiamen Set Electronics Co.,Ltd	TFV8S471K	Max. Continuous voltage: 300Vac(rms), Min. 105°C, The coating is Min. V-0	IEC 61051-1, IEC 61051-2, IEC 61051-2-2, IEC 62368-1:2018 Annex G.8.1 and G.8.2	TUV-RH (J 50554061)
Alt.	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	10D621K	Max. Continuous voltage: 385Vac(rms), Min. 125°C, The coating is Min. V-0	IEC/EN 61051-1 IEC/EN 61051-2 UL1449	VDE 40023049 UL E330837
Alt.	Guangdong Huiwan Electronics Technology Co.Ltd.	V-621K-10 DEH	Max. Continuous voltage: 385Vac(rms), Min. 125°C, The coating is Min. V-0	IEC/EN 61051-1 IEC/EN 61051-2 UL1449	VDE 40043880 UL E480104
Optocoupler (U3)	LITE-ON Technology Corporation	LTV-10xx	Ext. Cr: min. 8.0 mm; Ext. Cl: min. 8.0mm; Max. operating temp.: 115°C	IEC/EN 60747-5-5 UL 1577	VDE 138213 UL E113898
Alt.	Everlight Electronics Co., Ltd.	EL1019	Ext. Cr: min. 8.1 mm; Ext. Cl: min. 8.1mm; Max. operating temp.: 110°C	IEC/EN 60747-5-5 UL 1577	VDE 40028391 UL E214129
Alt.	VISHAY Semiconductor GmbH	TCLT1019	Ext. Cr: min. 8.0 mm; Ext. Cl: min. 8.0mm; Max. operating temp.: 110°C	IEC/EN 60747-5-5 UL 1577	VDE 132473 UL E76222

IEC 60601-1					
Clause	Requirement + Test			Result - Remark	Verdict
Bleeder Resistor (R3, R3A, R4, R4A)	Interchangeable	Interchangeable	Max. 12KΩ, Min. 1/4W	IEC/EN 60601-1	Tested with appliance
PFC Choke (L2)	GlobTek/HAOP UWEI/HEJIA/B OAM	LF060	Min.130°C	IEC/EN 60601-1	Tested with appliance
Transformer (T1)	GlobTek/ HAOPUWEI/ BOAM	TF131	Class B, with insulation system and critical component listed below	IEC/EN 60601-1	Tested with appliance
-Insulation system	GLOBTEK INC	GTX-130-TM	Class 130(B)	IEC/EN 60601-1 UL 1446	Tested with appliance UL E243347
-Alt.	WUXI HAOPUWEI ELECTRONICS CO LTD	ZT-130	Class 130(B)	UL 1446	UL E315275
-Alt.	SHAN DONG BOAM ELECTRIC CO LTD	BOAM-01, B1	Class 130(B)	UL 1446	UL E252329
Primary winding	NINGBO JINTIAN NEW MATERIAL CO LTD	2UEW	MW 75C, min.130°C	IEC/EN 60601- 1 UL 1446	Tested with appliance UL E227047
-Alt.	SHENZHEN DAYANG INDUSTRY CO LTD	2UEW	MW75-C, Min.130°C	UL 1446	UL E176101
-Alt.	WUXI JUFENG COMPOUND LINE CO LTD	2UEW, 2UEWB	MW75#, min.130°C	UL 1446	UL E206882
-Alt.	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79-C, min.130°C	UL 1446	UL E222214
Alt.	JIANGSU DARTONG M&E CO.,LTD	2UEW	MW 75-C, min.130°C	UL 1446	UL E237377

IEC 60601-1					
Clause	Requirement + Test			Result - Remark	Verdict
Alt.	SHANDONG SAINT ELECTRIC CO LTD	2UEW	MW75#, min.130°C	UL 1446	UL E194410
-Alt.	Interchangeable	Interchangeable	Min.130 °C	UL 1446	UL
-Triple-insulated wire (Secondary)	GREAT LEOFLON INDUSTRIAL CO LTD	TRW(B)	Min.130°C	IEC/EN 60601-1 UL 2353	Tested with appliance UL E211989
-Alt.	KBI COSMOLINK CO LTD	TIW-M	Min.130°C	UL 2353	UL E213764
-Alt.	FURUKAWA ELECTRIC CO LTD	TEX-E	Min.130°C	UL 2353	UL E206440
-Alt.	TOTOKU INC.	TIW-2	Min.130°C	UL 2353	UL E166483
-Alt.	HOI LUEN ELETRICAL MFR CO LTD	THL-F-xx, THL-F-SB-xx	Min.130°C	UL 2353	UL E257525
-Bobbin	CHANG CHUN PLASTICS CO LTD	T375J, T375HF	V-0, 150°C,	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E59481
-Alt.	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C,	UL 94 UL 746 A/B/C/D	UL E41429
-Alt.	Resonac Corporation	CP-J-8800	V-0, 150°C,	UL 94 UL 746 A/B/C/D	UL E42956
-Alt.	CHUANG CHUN PLASTICS CO LTD	4130	V-0, 150°C,	UL 94 UL 746 A/B/C/D	UL E59481
-Insulating tape	3M COMPANY	1350F-1, 1350T-1, 44	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E17385
-Alt.	BONDTEC PACIFIC CO LTD	370S	Min.130°C	UL 510	UL E175868

IEC 60601-1					
Clause	Requirement + Test			Result - Remark	Verdict
-Alt.	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ, CT, WF	Min.130°C	UL 510	UL E165111
-Alt.	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Min.130°C	UL 510	UL E246950
-Alt.	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	Min.130°C	UL 510	UL E246820
Insulating tube for earthing wire	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	RSFR, RSFR-H, RSFR-HPF, WF	600V, 125°C	IEC/EN 60601-1 UL 224	Tested with appliance UL E203950
Alt.	QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C	UL 224	UL E225897
Alt.	DONGGUAN SALIPT CO LTD	SALIPT S-901- 300, SALIPT S-901- 600	Min. 300V, 125°C	UL 224	UL E209436
Alt.	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (+), K-2 (CB)	Min. 300V, 125°C	UL 224	UL E214175
Alt.	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT CB-TT-T, CB-TT-S	Min. 300V, 125°C	UL 224	UL E180908
Enclosure	SABIC JAPAN L L C	945(GG)	Min.V-0, 120°C, Min. 2.0 mm	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E207780
Alt.	SABIC INNOVATIVE PLASTICS B V	945(GG)	Min.V-0, 120°C, Min. 2.0 mm	UL 94 UL 746 A/B/C/D	UL E45329

IEC 60601-1					
Clause	Requirement + Test			Result - Remark	Verdict
Earthing wire for Class I model	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1815, 1015, 1007	Min. 20 AWG, Min.300V, Min. 80°C Min. VW-1	IEC/EN 60601-1 UL 758	Tested with appliance UL E237831
Alt.	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1815, 1015, 1007	Min. 20 AWG, Min.300V, Min. 80°C Min. VW-1	UL 758	UL E333601
Alt.	Suzhou Jiahuishu Electronic Co Ltd	1815, 1015, 1007	Min. 20 AWG, Min.300V, Min. 80°C Min. VW-1	UL 758	UL E353532
Alt.	GlobTek, Inc.	1815, 1015, 1007	Min. 20 AWG, Min.300V, Min. 80°C Min. VW-1	UL 758	UL E464257
Alt.	Interchangeable	1815, 1015, 1007	Min. 20 AWG, Min.300V, Min. 80°C Min. VW-1	UL 758	UL
Y-Capacitor (CY1, CY2) (optional)	SUCCESS ELECTRONICS CO LTD	SE,	max. 2200pF min.250ac min.125°C type Y1	IEC/EN 60384-14 UL 60384-14	VDE40037211 VDE40020002 UL E114280
Alt.	SUCCESS ELECTRONICS CO LTD	SB	max. 2200pF min.250ac min.125°C type Y1	IEC/EN 60384-14 UL 60384-14	VDE40037221 VDE40020001 UL E114280
Alt.	Shantou High-New Technology Dev.Zone Songtian Enterprise Co., Ltd.	CD	max. 2200pF min.250ac min.125°C type Y1	IEC/EN 60384-14 UL 60384-14	VDE 40025754 UL E208107
Alt.	MURATA MFG CO LTD	KX	max. 2200pF min.250ac min.125°C type Y1	IEC/EN 60384-14 UL 60384-14	VDE 40002831 UL E37921

IEC 60601-1					
Clause	Requirement + Test		Result - Remark		Verdict
Alt.	TDK CORP	CD	max. 2200pF min.250ac min.125°C type Y1	IEC/EN 60384-14 UL 60384-14	VDE 40029780 UL E37861
Output cord	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIE S CO LTD	2725	Min. 28AWG, Min.30V, Min. 60°C Min. VW-1	IEC/EN 60601-1 UL 758	Tested with appliance UL E237831
Alt.	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	2725	Min. 28AWG, Min.30V, Min. 60°C Min. VW-1	UL 758	UL E333601
Alt.	Suzhou Jiahuishu Electronic Co Ltd	2725	Min. 28AWG, Min.30V, Min. 60°C Min. VW-1	UL 758	UL E353532
Alt.	GlobTek, Inc.	2725	Min. 28AWG, Min.30V, Min. 60°C Min. VW-1	UL 758	UL E464257
Alt.	Interchangeable	Interchangeable	Min. 28AWG, Min.30V, Min. 60°C Min. VW-1	UL 758	UL
Inductor L1 (Optional)	Interchangeable	Interchangeable	Min. 130°C, 464 μH	--	--
Inductor L2 (Optional)	Interchangeable	Interchangeable	Min. 130°C, 420 μH±10%	--	--
Rectifier BD1	Interchangeable	Interchangeable	Min. 600 V, 8 A	--	--
E-cap C4	Interchangeable	Interchangeable	Min. 450 V, 100 μF	--	--
Supplementary information:					
1) Provided evidence ensures the agreed level of compliance. See OD-2039.					
2) License available upon request.					

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

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

8.11.3.5	TABLE: CORD ANCHORAGES				N/A
Cord under test	Mass of equipment (kg)	Pull (N)	Torque Nm)	Remarks	
Supplementary information:					

8.11.3.6	TABLE: Cord guard			N/A
Cord under test	Test mass	Measured curvature	Remarks	
Supplementary information:				

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

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

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

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

9.4.2.1	TABLE: Instability—overbalance in transport position		P
ME EQUIPMENT preparation	Test Condition (transport position)	Remarks	
As in 9.4.2.2	Test 10 ° incline	Not overturned	
Supplementary information:			

9.4.2.2	TABLE: Instability—overbalance excluding transport position		P
ME EQUIPMENT preparation	Test Condition (excluding transport position) Test either 5 ° incline and verify Warning marking or 10 ° incline)	Remarks	
As in 9.4.2.2	Test 10 ° incline	Not overturned	
Supplementary information:			

9.4.2.3	TABLE: Instability—overbalance from horizontal and vertical forces		N/A
ME EQUIPMENT preparation	Test Condition (force used, direction of force, weight of equipment, location of force)	Remarks	
Supplementary information:			

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

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Clause	Requirement + Test	Result - Remark	Verdict

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

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

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

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

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Clause	Requirement + Test	Result - Remark	Verdict

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

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

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

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Clause	Requirement + Test	Result - Remark	Verdict
10.1.1	TABLE: Measurement of X - radiation		N/A
Maximum allowable radiation pA/kg (μSv/h) (mR/h)		36 (5 μSv/h) (0.5 mR/h)	
Surface area under test Surface no./ Description¹⁾		Measured Radiation, pA/kg (μSv/h) (mR/h)	Remarks
1/ /			
2/ /			
3/ /			
4/ /			
5/ /			
6/ /			
7/ /			
8/ /			
9/ /			
10/ /			
Supplementary information: ¹⁾ Measurements made at 5 cm from any surface to which OPERATOR (other than SERVICE PERSONNEL) can gain access without a TOOL, is deliberately provided with means of access, or is instructed to enter regardless of whether or not a TOOL is needed to gain access			

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Clause	Requirement + Test	Result - Remark	Verdict

11.1.1	TABLE: Excessive temperatures in ME EQUIPMENT							P
Model No.:	GTM961005P-100PD-USBCP-T3A						-	P
Test ambient (°C)	25.0		24.0				-	P
Test supply voltage/frequency (V/Hz) ⁴⁾ ..:	85/60		264/50				-	P
Model No.	Thermo-couple No.	Thermocouple location ³⁾	Max measured temperature ²⁾ , (°C)				Max allowable temperature ^{e1)} from Table 22, 23 or 24 or RM file for AP ⁵⁾ (°C)	Remarks
GTM961005P-100PD-USBCP-T3A	-	Appliance inlet	57.2	72.2	48.6	64.4	75	-
	-	MOV	68.3	83.3	52.7	68.7	105	-
	-	X capacitor	81.1	96.1	62.3	78.3	100	-
	-	Inductor LF2	82.6	97.6	66.8	82.8	120	-
	-	Inductor L1	92.2	107.2	72.2	88.2	120	-
	-	Insulation tube	79.0	94.0	71.4	87.4	125	-
	-	E-cap C4	88.3	103.3	77.0	93.0	105	-
	-	Inductor L2	87.6	102.6	72.2	88.2	120	-
	-	Winding of transformer	98.9	113.9	92.7	108.7	120	-
	-	Bobbin of transformer	93.9	108.9	87.9	103.9	120	-
	-	Y1 capacitor	75.0	90.0	74.7	90.7	125	-
	-	Optocoupler	80.3	95.3	73.5	89.5	110	-
	-	PCB material	84.1	99.1	76.7	92.7	130	-
	-	E-cap C27	74.5	89.5	82.1	98.1	105	-
	-	Rectifier bridge	88.2	103.2	66.8	82.8	105	-
	-	Internal enclosure	67.5	82.5	71.9	87.9	120	-
	-	Output wire	41.8	57.8	41.1	57.1	75	-
	-	Surface of plastic enclosure	68.6	83.6	56.4	72.4	86*	-
	-	Wooden support	67.3	82.3	55.1	71.1	90	-
	-	Ambient	25.0	Shift to 40	24.0	Shift to 40	--	-

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

Supplementary information:

- 1) Maximum allowable temperature on surfaces of test corner is 90 °C
- 2) Max temperature determined in accordance with 11.1.3e)
- 3) When 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** - See RISK MANAGEMENT FILE containing temperatures and clinical effects. Also, see instructions for use.

Under load: 21 V $\overline{=}$, 100 W

Information from Risk Management, as applicable:

*: external surface of accessible parts that are likely to be touched for $t < 1$ s

11.1.3d	TABLE: Temperature of windings by change-of-resistance method						N/A	
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class	

Supplementary information:

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

11.2.2.1	TABLE: Alternative method to 11.2.2.1 a) 5) to determine existence of an ignition source		N/A
Areas where sparking might cause ignition:		Remarks	
1.			
2.			
3.			
4.			
5.			
6.			
Materials of the parts between which sparks could occur (Composition, Grade Designation, Manufacturer):		Remarks	
1.			
2.			
3.			
4.			
5.			
6.			
Test parameters selected representing worst case conditions for ME EQUIPMENT:		Remarks	
Oxygen concentration (%)..... :			
Fuel			
Current (A)			
Voltage (V)..... :			
Capacitance (μF)			
Inductance or resistance (h or Ω).... :			
No. of trials (300 Min)..... :			
Sparks resulted in ignition (Yes/No) :			
<p>Supplementary information: Test procedure of 11.2.2.1 a) 5) & Figs 35-37 used for tests. For circuits not in Figs 35-37, test voltage or current set at 3 times the worst-case values with other parameters set at worst case values to determine if ignition can occur.</p> <p>Information from Risk Management, as applicable:</p>			

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

11.6.1	TABLE: overflow, spillage, leakage, ingress of water, cleaning, disinfection, sterilization, compatibility with substances			P
Clause / Test Name	Test Condition	Part under test	Remarks	
11.6.5 /IP22	With cords connected	Whole unit	Pass	
Supplementary information:				
Information from Risk Management, as applicable:				

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

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		P
Clause No.	Description of SINGLE FAULT CONDITION	Results observed	HAZARDOUS SITUATION (Yes/No)
13.2.2	Electrical SINGLE FAULT CONDITIONS per Cl. 8.1:	—	—
	Output, OL	USB output: max. 5.27A LF2: 101.2 °C; L1: 107.1 °C; Winding of T1: 117.8 °C, Surface of enclosure: 74.1 °C; Ambient: 24°C No hazard	No
	Output, SC	No work, no hazard	No
	Output of transformer, OL	LF2: 94.6 °C; L1: 100.9 °C; Winding of T1: 109.9 °C, Surface of enclosure: 72.3 °C; Ambient: 24°C No hazard	No
	Output of transformer, SC	Winding of T1: 95.7 °C, Surface of enclosure: 63.0 °C; Ambient: 24°C No hazard	No
	C4, SC	F1, F2 opened, no hazard	No
	D1, SC	F1, F2, C3A opened immediately, no hazard	No
	D7, SC	No work, no hazard	No
	C12, SC	No work, no hazard	No
	C17, SC	No work, no hazard	No
	Q1, SC	F1, F2, R10 opened immediately, no hazard	No
	Q2, SC	F1, F2, opened immediately, no hazard	No
	BD1, SC	F1, F2, opened immediately, no hazard	No
13.2.3	Overheating of transformers per Clause 15.5:	—	—
	Refer to the above 13.2.2 for details	--	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:	—	—
	--	--	N/A

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

Clause No.	Description of SINGLE FAULT CONDITION	Results observed	HAZARDOUS SITUATION (Yes/No)
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:	—	—
	--	--	N/A
13.2.6	Leakage of liquid - RISK MANAGEMENT FILE examined to determine the appropriate test conditions (sealed rechargeable batteries exempted)	—	—
	--	--	N/A
13.2.7	Impairment of cooling that could result in a HAZARD using test method of 11.1:	—	—
	Single ventilation fans locked consecutively		N/A
	Ventilation openings on top and sides impaired by covering openings on top of ENCLOSURE or positioning of ME EQUIPMENT against walls		N/A
	Simulated blocking of filters		N/A
	Flow of a cooling agent interrupted		N/A
13.2.8	Locking of moving parts – Only one part locked at a time – Also see 13.2.10 below:	—	—
	--	--	N/A
13.2.9	Interruption and short circuiting of motor capacitors – Motor capacitors short & open circuited ¹⁾ – Also see 13.10	—	—
		V measured =	N/A
		V measured =	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 started from COLD CONDITION at RATED voltage or upper limit of RATED voltage range for specified time:		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)
	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		N/A
	Temperatures measured as specified in 11.1.3 d)		N/A
	Temperatures did not exceed limits of Table 26		N/A
13.2.11	Failures of components in ME EQUIPMENT used in conjunction with OXYGEN RICH ENVIRONMENTS:	—	—
	--	--	N/A
13.2.12	Failure of parts that might result in a MECHANICAL HAZARD (See 9 & 15.3):	—	—
	--	--	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.

Information from Risk Management, as applicable:

15.3	TABLE: Mechanical Strength tests ¹⁾			P
Clause	Name of Test	Test conditions	Observed results/Remarks	
15.3.2	Push Test	Force = 250 N ± 10 N for 5 s	After test, no damage	
15.3.3	Impact Test	Steel ball (50 mm in dia., 500 g ± 25 g) falling from a 1.3 m	After test, no damage	
15.3.4.1	Drop Test (hand-held)	Free fall height (m) =	N/A	
15.3.4.2	Drop Test (portable)	Drop height (cm) = 5	After test, no 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) = 97.9	After test, no damage	

Supplementary information: ¹⁾ As applicable, Push, Impact, Drop, Mould Stress Relief and Rough Handling Tests (delete not applicable rows or state N/A in Remarks field).

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Clause	Requirement + Test	Result - Remark	Verdict

15.4.6	TABLE: actuating parts of controls of ME EQUIPMENT – torque & axial pull tests					N/A
Rotating control under test	Gripping diameter “d” of control knob (mm) ¹⁾	Torque from Table 30 (Nm)	Axial force applied (N)	Unacceptable RISK occurred Yes/No	Remarks	

Supplementary information: ¹⁾ Gripping diameter (d) is the maximum width of a control knob regardless of its shape (e.g. control knob with pointer)

15.5.1.2	TABLE: transformer short circuit test short-circuit applied at end of windings or at the first point that could be short circuited under SINGLE FAULT CONDITION						P
Primary voltage (most adverse value from 90 % to 110 % of RATED voltage)(V)¹⁾.....:				264	—		
RATED input frequency (Hz)				50	—		
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)	Ambient (°C)
T1	B	fuse	No	2h	175	95.7	24

Supplementary information:
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.

15.5.1.3	TABLE: transformer overload test – conducted only when protective device under short-circuit test operated					N/A
Primary voltage, most adverse value between 90 % to 110 % of RATED voltage (V)¹⁾..... :					N/A	
RATED input frequency (Hz)					N/A	
Test current just below minimum current that would activate protective device and achieve THERMAL STABILITY under method a) (A)					N/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 tested	Class of insulation (A, B, E, F, H)	Type of protective device used (fuse, circuit breaker)/Ratings	Maximum allowed temp from Table 31 (°C)	Maximum winding temp measured (°C)	Ambient (°C)	

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Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

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.

15.5.2	TABLE: Transformer dielectric strength after humidity preconditioning of 5.7					N/A
Transformer Model/Type/ Part No	Test voltage applied between	Test voltage, (V)	Test frequency (Hz)	Breakdown Yes/No	Deterioration Yes/No	
	<i>Primary & secondary windings</i>					
	Primary winding & frame					
	Secondary winding & frame					

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

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

Supplementary information:

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Clause	Requirement + Test	Result - Remark	Verdict

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

	Attachment - Software – IEC 62304:2006+AMD1:2015	—
4.3	[A, B, C] Software safety classification	—
	a) The MANUFACTURER assigns to each SOFTWARE SYSTEM a software safety class according to the RISK of HARM to the patient, operator, or other people resulting from a HAZARDOUS SITUATION to which the SOFTWARE SYSTEM can contribute in a worst-case-scenario	N/A
	The SOFTWARE SYSTEM is software safety class A if:	—
	– the SOFTWARE SYSTEM not contribute to a HAZARDOUS SITUATION; or	N/A
	– the SOFTWARE SYSTEM contribute to a HAZARDOUS SITUATION which does not result in unacceptable RISK after consideration of RISK CONTROL measures external to the SOFTWARE SYSTEM	N/A
	The SOFTWARE SYSTEM is software safety class B if:	—
	– the SOFTWARE SYSTEM contribute to a HAZARDOUS SITUATION which results in unacceptable RISK after consideration of RISK CONTROL measures external to the SOFTWARE SYSTEM and the resulting possible HARM is non-SERIOUS INJURY	N/A
	The SOFTWARE SYSTEM is software safety class C if:	—
	– the SOFTWARE SYSTEM contribute to a HAZARDOUS SITUATION which results in unacceptable RISK after consideration of RISK CONTROL measures external to the SOFTWARE SYSTEM and the resulting possible HARM is death or SERIOUS INJURY	N/A
	For a SOFTWARE SYSTEM initially classified as software safety class B or C, the MANUFACTURER has implemented additional RISK CONTROL measures external to the SOFTWARE SYSTEM and subsequently has assigned a new software safety classification to the SOFTWARE SYSTEM	N/A

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

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

5	SOFTWARE DEVELOPMENT PROCESS	—
5.1	Software development planning	—

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

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

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Clause	Requirement + Test	Result - Remark	Verdict
5.1.11	[B, C] The MANUFACTURER plans to place CONFIGURATION ITEMS under documented configuration management control before they are VERIFIED		N/A
5.1.12	[B, C] In the software development plan the MANUFACTURER includes or references a procedure for:		N/A
	a) identifying categories of defects that may be introduced based on the selected programming technology that are relevant to their SOFTWARE SYSTEM		N/A
	b) documenting evidence that demonstrates that these defects do not contribute to unacceptable RISK		N/A
5.2	Software requirements analysis		—
5.2.1	[A, B, C] For each SOFTWARE SYSTEM of the MEDICAL DEVICE, the MANUFACTURER defines and documents SOFTWARE SYSTEM requirements from the SYSTEM level requirements		N/A
5.2.2	[A, B, C] As appropriate to the MEDICAL DEVICE SOFTWARE, the MANUFACTURER includes in the software requirements:		N/A
	a) functional and capability requirements		N/A
	b) SOFTWARE SYSTEM inputs and outputs		N/A
	c) interfaces between the SOFTWARE SYSTEM and other SYSTEMS		N/A
	d) software-driven alarms, warnings, and operator messages		N/A
	e) SECURITY requirements		N/A
	f) user interface requirements implemented by software		N/A
	g) data definition and database requirements		N/A
	h) installation and acceptance requirements of the delivered MEDICAL DEVICE SOFTWARE at the operation and maintenance site or sites		N/A
	i) requirements related to methods of operation and maintenance		N/A
	j) requirements related to IT-network aspects	No IT-network	N/A
	k) user maintenance requirements		N/A
	l) regulatory requirements		N/A
5.2.3	[B, C] The MANUFACTURER includes RISK CONTROL measures implemented in software in the requirements as appropriate to the MEDICAL DEVICE SOFTWARE		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.2.4	[A, B, C] The MANUFACTURER re-EVALUATES the MEDICAL DEVICE RISK ANALYSIS when software requirements are established and update it as appropriate		N/A
5.2.5	[A, B, C] The MANUFACTURER ensures that existing requirements, including SYSTEM requirements, are re-EVALUATED and updated as appropriate as a result of the software requirements analysis ACTIVITY		N/A
5.2.6	[A, B, C] The MANUFACTURER verifies and documents that the software requirements:		N/A
	a) implement SYSTEM requirements including those relating to RISK CONTROL		N/A
	b) do not contradict one another		N/A
	c) are expressed in terms that avoid ambiguity		N/A
	d) are stated in terms that permit establishment of test criteria and performance of tests		N/A
	e) can be uniquely identified		N/A
	f) are traceable to SYSTEM requirements or other source		N/A
5.3	Software ARCHITECTURAL design		--
5.3.1	[B, C] The MANUFACTURER transforms the requirements for the MEDICAL DEVICE SOFTWARE into a documented ARCHITECTURE that describes the software's structure and identifies the SOFTWARE ITEMS		N/A
5.3.2	[B, C] The MANUFACTURER develops and documents an ARCHITECTURE for the interfaces between the SOFTWARE ITEMS and the components external to the SOFTWARE ITEMS (both software and hardware), and between the SOFTWARE ITEMS		N/A
5.3.3	[B, C] If a SOFTWARE ITEM is identified as SOUP, the MANUFACTURER specifies functional and performance requirements for the SOUP item that are necessary for its intended use	No SOUP	N/A
5.3.4	[B, C] If a SOFTWARE ITEM is identified as SOUP, the MANUFACTURER specifies the SYSTEM hardware and software necessary to support the proper operation of the SOUP item	No SOUP	N/A
5.3.5	[C] The MANUFACTURER identifies any segregation between SOFTWARE ITEMS that is necessary for RISK CONTROL, and states how to ensure that such segregation is effective		N/A
5.3.6	[B, C] The MANUFACTURER verifies and documents that:		N/A
	a) the ARCHITECTURE of the software implements SYSTEM and software requirements including those relating to RISK CONTROL		N/A

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

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

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

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

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Clause	Requirement + Test	Result - Remark	Verdict

7	SOFTWARE RISK MANAGEMENT PROCESS		—
7.1	Analysis of software contributing to hazardous situations		—
7.1.1	[B, C] The MANUFACTURER identifies SOFTWARE ITEMS that could contribute to a hazardous situation identified in the MEDICAL DEVICE RISK ANALYSIS ACTIVITY of ISO 14971		N/A
7.1.2	[B, C] The MANUFACTURER identifies potential causes of the SOFTWARE ITEM identified above contributing to a hazardous situation		N/A
	The MANUFACTURER considers potential causes including, as appropriate:		N/A
	a) incorrect or incomplete specification of functionality		N/A
	b) software defects in the identified SOFTWARE ITEM functionality		N/A
	c) failure or unexpected results from SOUP		N/A
	d) hardware failures or other software defects that could result in unpredictable software operation		N/A
	e) reasonably foreseeable misuse		N/A
7.1.3	[B, C] If failure or unexpected results from SOUP is a potential cause of the SOFTWARE ITEM contributing to a hazardous situation, the MANUFACTURER EVALUATES as a minimum any ANOMALY list published by the supplier of the SOUP item relevant to the VERSION of the SOUP item used in the MEDICAL DEVICE to determine if any of the known ANOMALIES result in a sequence of events that could result in a hazardous situation		N/A
7.1.4	[B, C] The MANUFACTURER documents in the RISK MANAGEMENT FILE potential causes of the SOFTWARE ITEM contributing to a hazardous situation		N/A
7.2	RISK CONTROL measures		—
7.2.1	[B, C] For each case documented in the RISK MANAGEMENT FILE where a SOFTWARE ITEM could contribute to a HAZARDOUS SITUATION, the MANUFACTURER defines and documents RISK CONTROL measures in accordance with ISO 14971		N/A
7.2.2	[B, C] If a RISK CONTROL measure is implemented as part of the functions of a SOFTWARE ITEM, the MANUFACTURER:		N/A
	a) includes the RISK CONTROL measure in the software requirements		N/A
	b) assigns to each SOFTWARE ITEM that contributes to the implementation of a RISK CONTROL measure a software safety class based on the RISK that the RISK CONTROL measure is controlling		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	c) develops the SOFTWARE ITEM in accordance with Clause 5		N/A
7.3	VERIFICATION of RISK CONTROL measures		—
7.3.1	[B, C] The implementation of each RISK CONTROL measure documented in 7.2 is VERIFIED, and this VERIFICATION is documented		N/A
	The MANUFACTURER reviews the RISK CONTROL measure and determines if it could result in a new HAZARDOUS SITUATION		N/A
7.3.3	[B, C] The MANUFACTURER documents TRACEABILITY of software HAZARDS as appropriate:		N/A
	a) from the hazardous situation to the SOFTWARE ITEM		N/A
	b) from the SOFTWARE ITEM to the specific software cause		N/A
	c) from the software cause to the RISK CONTROL measure		N/A
	d) from the RISK CONTROL measure to the VERIFICATION of the RISK CONTROL measure		N/A
7.4	RISK MANAGEMENT of software changes		—
7.4.1	[A, B, C] The MANUFACTURER analyses changes to the MEDICAL DEVICE SOFTWARE (including SOUP) to determine whether:		N/A
	a) additional potential causes are introduced contributing to a hazardous situation		N/A
	b) additional software RISK CONTROL measures are required		N/A
7.4.2	[B, C] The MANUFACTURER analyses changes to the software, including changes to SOUP, to determine whether the software modification could interfere with existing RISK CONTROL measures		N/A
7.4.3	[B, C] The MANUFACTURER performs relevant RISK MANAGEMENT ACTIVITIES defined in 7.1, 7.2 and 7.3 based on these analyses		N/A

8	SOFTWARE CONFIGURATION MANAGEMENT PROCESS		—
8.1	Configuration identification		—
8.1.1	[A, B, C] The MANUFACTURER establishes a scheme for the unique identification of CONFIGURATION ITEMS and their VERSIONS to be controlled according to the development and configuration planning specified in 5.1		N/A
8.1.2	[A, B, C] For each SOUP CONFIGURATION ITEM being used, including standard libraries, the MANUFACTURER documents:		N/A
	a) the title		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) the MANUFACTURER		N/A
	c) the unique SOUP designator		N/A
8.1.3	[A, B, C] The MANUFACTURER documents the set of CONFIGURATION ITEMS and their VERSIONS that comprise the SOFTWARE SYSTEM configuration		N/A
8.2	Change control		—
8.2.1	[A, B, C] The MANUFACTURER changes CONFIGURATION ITEMS identified to be controlled according to 8.1 only in response to an approved CHANGE REQUEST		N/A
8.2.2	[A, B, C] The MANUFACTURER implements the change as specified in the CHANGE REQUEST		N/A
	The MANUFACTURER identifies and performs any ACTIVITY that needs to be repeated as a result of the change, including changes to the software safety classification of SOFTWARE SYSTEMS and SOFTWARE ITEMS		N/A
8.2.3	[A, B, C] The MANUFACTURER verifies the change, including repeating any VERIFICATION that has been invalidated by the change and taking into account 5.7.3 and 9.7		N/A
8.2.4	[A, B, C] The MANUFACTURER maintains records of the relationships and dependencies between:		N/A
	a) CHANGE REQUEST		N/A
	b) relevant PROBLEM REPORT		N/A
	c) approval of the CHANGE REQUEST		N/A
8.3	[A, B, C] The MANUFACTURER retains retrievable records of the history of controlled CONFIGURATION ITEMS including SYSTEM configuration		N/A

9	SOFTWARE PROBLEM RESOLUTION PROCESS		—
9.1	[A, B, C] The MANUFACTURER prepares a PROBLEM REPORT for each problem detected in the MEDICAL DEVICE SOFTWARE		N/A
	PROBLEM REPORTS include a statement of criticality (for example, effect on performance, SAFETY, or SECURITY) as well as other information that may aid in the resolution of the problem (for example, devices affected, supported accessories affected)		N/A
9.2	[A, B, C] The MANUFACTURER:		N/A
	a) investigates the problem and if possible identify the causes		N/A
	b) EVALUATES the problem's relevance to SAFETY using the software RISK MANAGEMENT PROCESS		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	c) documents the outcome of the investigation and evaluation		N/A
	d) creates a CHANGE REQUEST(S) for actions needed to correct the problem, or document the rationale for taking no action		N/A
9.3	[A, B, C] The MANUFACTURER advises relevant parties of the existence of the problem, as appropriate		N/A
9.4	[A, B, C] The MANUFACTURER approves and implements all CHANGE REQUESTS, observing the requirements of the change control PROCESS		N/A
9.5	[A, B, C] The MANUFACTURER maintains records of PROBLEM REPORTS and their resolution including their VERIFICATION		N/A
	The MANUFACTURER updates the RISK MANAGEMENT FILE as appropriate		N/A
9.6	[A, B, C] The MANUFACTURER performs analysis to detect trends in PROBLEM REPORTS		N/A
9.7	[A, B, C] The MANUFACTURER verifies resolutions to determine whether:		N/A
	a) problem has been resolved and the PROBLEM REPORT has been closed		N/A
	b) adverse trends have been reversed		N/A
	c) CHANGE REQUESTS have been implemented in the appropriate MEDICAL DEVICE SOFTWARE and ACTIVITIES		N/A
	d) additional problems have been introduced		N/A
9.8	[A, B, C] When testing, retesting or REGRESSION TESTING SOFTWARE ITEMS and SYSTEMS following a change, the MANUFACTURER includes in the test documentation:		N/A
	a) test results		N/A
	b) ANOMALIES found		N/A
	c) the VERSION of software tested		N/A
	d) relevant hardware and software test configurations		N/A
	e) relevant test tools		N/A
	f) date tested		N/A
	g) identification of the tester		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

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

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

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Clause	Requirement + Test	Result - Remark	Verdict	
Attachment	Software - Mapping of required evidence and manufacturer documents			N/A
Standard Clause	Deliverables	Title	Revision #	Date
9	Software problem resolution records			
Supplementary information:				

IEC60601_1U ATTACHMENT 2			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 60601-1 US NATIONAL DIFFERENCES MEDICAL ELECTRICAL EQUIPMENT - PART 1: GENERAL REQUIREMENTS FOR BASIC SAFETY AND ESSENTIAL PERFORMANCE			
Differences according to : National standard AAMI ES60601-1:2005,ES60601-1:2005/AMD1 1:2012 , ES60601-1:2005/AMD2:2021			
TRF template used: : IECEE OD-2020-F3, Ed. 1.1			
Attachment Form No. : US_ND_IEC60601_1U			
Attachment Originator : UL(US)			
Master Attachment : 2022-07-01			
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	National Differences		P
4.8	Components of ME EQUIPMENT		P
	b) where there is no relevant IEC/ISO standard, the relevant ANSI standard applied; if no relevant ANSI standard exists, the requirements of this standard were applied. <i>(Replacement of clause 4.8 b)</i>		P
4.10.2	SUPPLY MAINS FOR ME EQUIPMENT AND ME SYSTEMS		P
	<i>(Replacement to reflect agreement with the National Electrical Code (NEC):</i> The reference to "500 V" replaced with "600 V" in the second and third dashes.		N/A
	<i>(Addition to reflect agreement with the NEC)</i> In the text of the second-to-last dash of this sub-clause, "and the NEC" added after reference to "IEC 60364-4-41"		P
6.0	Classification of ME EQUIPMENT and ME SYSTEMS		N/A
6.6	Mode of operation		N/A
	<i>(Addition to reflect agreement with NFPA 70)</i> X-Ray systems are classified as long time operation (> 5 min) or momentary operation (< 5 sec).		N/A
7.0	ME EQUIPMENT identification, marking and documents		N/A
7.2.11	Mode of operation		N/A
	<i>(Addition to reflect agreement with NFPA 70)</i> X-Ray systems are marked as long time operation or momentary operation.		N/A

IEC60601_1U (ATTACHMENT 2)			
Clause	Requirement + Test	Result - Remark	Verdict
7.2.22	<i>(Addition of new item)</i> Colours of medical gas cylinders		N/A
	To reflect agreement with NFPA 99: Cylinders containing medical gases and their connection points are coloured in accordance with the requirements of NFPA 99.		N/A
8.0	Protection against electrical hazards from ME EQUIPMENT		P
8.2	Requirements related to power sources		N/A
	<i>(Addition to reflect agreement with the NEC)</i> All FIXED ME EQUIPMENT and PERMANENTLY INSTALLED ME EQUIPMENT are CLASS I ME EQUIPMENT.		N/A
8.6.1	Application of requirements		N/A
	<i>(Addition to reflect agreement with NFPA 99)</i> The enclosure of X-ray ME EQUIPMENT operating over 600 Vac, 850 Vdc MAINS VOLTAGE, or containing voltages up to 50 V peak and enclosed in protectively earthed enclosure as well as connections to X-ray tubes and other high voltage components that include high voltage shielded cables are PROTECTIVELY EARTHED.		N/A
	<i>(Addition to reflect agreement with NFPA 99)</i> Non-current carrying conductive parts of X-Ray ME EQUIPMENT likely to become energized are PROTECTIVELY EARTHED		N/A
8.7.3	Allowable values		P
	<i>(Deletion to reflect agreement with NFPA 99 which does not allow for allowance greater than the stated values)</i> Delete the second sentence and note to sub-clause 8.7.3 d) so that it reads: d) The allowable values of the EARTH LEAKAGE CURRENT are 5 mA in NORMAL CONDITION and 10 mA in SINGLE FAULT CONDITION		P
8.11	MAINS PARTS, components and layout		N/A
	<i>(Addition to reflect agreement with the NEC)</i> Permanently connected ME EQUIPMENT has provision for the connection of one of the wiring systems that is in accordance with the NEC.	Component power supply, no power supply cords provided. To be evaluated in the end-product.	N/A

IEC60601_1U (ATTACHMENT 2)			
Clause	Requirement + Test	Result - Remark	Verdict
	Exception: Fixed and stationary X-ray ME EQUIPMENT supplied from a branch circuit rated at 30 A or less, and ME EQUIPMENT that is not strictly portable but obviously is intended to be stationary, may be acceptable if provided with a length of attached hard service flexible cord - such as Type S, or the equivalent, for supply connection.		N/A
	The installation of connecting cords between EQUIPMENT parts meets the requirements of the NEC, as applicable. Cable used as external interconnection between units are as follows:		N/A
	1) If exposed to abuse, the cables are Type SJT, SJTO, SJO, ST, SO, STO, or equivalent flexible cord or similar multiple-conductor appliance-wiring material such as computer cable		N/A
	2) If not exposed to abuse, the cables are as indicated in item 1) above or are: i) Type SPT-2, SP-2, or SPE-2, or equivalent, ii) Type SVr, SVRO, SVE, or equivalent flexible cord or similar multiple-conductor appliance wiring material, or iii) An assembly of insulated wires each with a nominal insulation thickness of 0.8 mm (1/32 inch) or more, enclosed in acceptable insulating tubing having a nominal wall thickness of 0.8 mm (1/32 inch) or more.		N/A
	Receptacles provided as part of ME EQUIPMENT or ME SYSTEMS for use in the patient care areas of paediatric wards, rooms, or areas are listed tamper resistant or employ a listed tamper resistant cover in accordance with the NEC.		N/A
	b) For ME EQUIPMENT provided with NEMA configuration non-locking plug types 120 V/15 A, 125 V/20 A, 250 V/15 A, 250 V/20 A "Hospital Grade" mains plug is provided and the POWER SUPPLY CORD is marked.		N/A
8.11.3.2	<i>(Addition to reflect agreement with the NEC)</i> The flexible cord is of a type that is acceptable for the particular application. It is acceptable for use at a voltage not less than the rated voltage of the appliance and has an ampacity, as given in the NEC, not less than the current rating of the appliance		N/A
8.11.3.3	Cross-sectional area of POWER SUPPLY CORDS		N/A

IEC60601_1U (ATTACHMENT 2)			
Clause	Requirement + Test	Result - Remark	Verdict
	<i>(Addition to reflect agreement with NFPA 99)</i> For X-Ray ME EQUIPMENT with an attachment plug, the current rating on a hospital grade plug should be 2X the maximum input current of the equipment.		N/A
	1) If exposed to abuse, the cables are Type SJT, SJTO, SJO, ST, SO, STO, or equivalent flexible cord or similar multiple-conductor appliance-wiring material such as computer cable.		N/A
	2) If not exposed to abuse, the cables are as indicated in item 1) above or are: i) Type SPT-2, SP-2, or SPE-2, or equivalent, ii) Type SVr, SVRO, SVE, or equivalent flexible cord or similar multiple-conductor appliance wiring material, or iii) An assembly of insulated wires each with a nominal insulation thickness of 0.8 mm (1/32 inch) or more, enclosed in acceptable insulating tubing having a nominal wall thickness of 0.8 mm (1/32 inch) or more.		N/A
	Receptacles provided as part of ME EQUIPMENT or ME SYSTEMS for use in the patient care areas of paediatric wards, rooms, or areas are listed tamper resistant or employ a listed tamper resistant cover in accordance with the NEC.		N/A
	b) For ME EQUIPMENT provided with NEMA configuration non-locking plug types 120 V/15 A, 125 V/20 A, 250 V/15 A, 250 V/20 A "Hospital Grade" mains plug is provided and the POWER SUPPLY CORD is marked.		N/A

IEC60601_1U ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 60601-1 CANADA NATIONAL DIFFERENCES MEDICAL ELECTRICAL EQUIPMENT — PART 1: GENERAL REQUIREMENTS FOR BASIC SAFETY AND ESSENTIAL PERFORMANCE			
Differences according to		Canadian National standard: CAN/CSA-C22.2 No. 60601-1:08, CAN/CSA-C22.2 No. 60601-1:14 (including amendment 1) and Amendment 2:2022 (MOD) to CAN/CSA-C22.2 No. 60601-1:14	
TRF template used:.....		IECEE OD-2020-F3, Ed. 1.1	
Attachment Form No.		CA_ND_IEC60601_1U	
Attachment Originator		CSA Group	
Master Attachment.....		Dated 2022-08-12	
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Note *: IEC CANADIAN NATIONAL DIFFERENCES in Canada are called CANADIAN DEVIATIONS.			
	Canadian National Differences		P
1	Scope, object and related standards		P
1.1	Scope		P
	<i>[Replace the first paragraph with the following]</i> 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.		P
	<i>[Add the following note]</i> 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		P
	<i>[Replace this clause with the following]</i> Applicable Canadian 60601 collateral standards become normative at the date of their publication and apply together with this Standard.		P
1.4	Particular standards		N/A
	<i>[Replace this clause with the following]</i> Applicable Canadian 60601/80601 particular		N/A

IEC60601_1U ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	<p>In this CSA Group adoption, any reference to International Standards shall be replaced by the relevant National Standard of Canada.</p> <p>Note 1DV: <i>For additional information about normative Standards in Canada, refer to the Canadian Electrical Code, Part I, Appendix A.</i></p> <p>Where reference is made to CSA Group Standards, such reference are considered to refer to the latest edition and all amendments published to that edition. This Standard refers to the following Standards, and the years shown indicate the latest editions available at the time of printing:</p> <p>CSA Group B51-09 Boiler, pressure vessel, and pressure piping code C22.1-21 Canadian Electrical Code, Part I C22.2 No. 0:20 General requirements — Canadian Electrical Code, Part II C22.2 No. 0.4-17 <i>Bonding of electrical equipment</i></p> <p>C22.2 No. 21-95 (R2009) Cord sets and power supply cords C22.2 No. 42-10 General use receptacles, attachment plugs, and similar wiring devices C22.2 No. 49-10 Flexible cords and cables C22.2 No. 100:14 (R2019) <i>Motors and generators</i></p> <p>C22.2 No. 248 series of Standards Low-voltage fuses C22.2 No. 308-18 Cord reels and multi-outlet assemblies</p> <p>CAN/CSA-E61558-2-1-03 (R2012) Safety of power transformers, power supply units and similar — Part 2: Particular requirements for separating transformers for general use CSA C22.2 No. 62368-1:19 Audio/video, information and communication technology equipment — Part 1: Safety requirements Z32-09 Electrical safety and essential electrical systems in</p>		P

IEC60601_1U ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>health care facilities CAN/CSA-Z305.8-03 (R2013) Medical supply units Z305.12-06 (R2012) Safe storage, handling, and use of portable oxygen systems in residential buildings and health care facilities Z305.13-09 Plume scavenging in surgical, diagnostic, therapeutic, and aesthetic settings CAN/CSA-Z5359-10 Low-pressure hose assemblies for use with medical gases CAN/CSA-Z9170-1-11 Terminal units for medical gas pipeline systems — Part 1: Terminal units for use with compressed medical gases, vacuum, and anaesthetic gas scavenging systems CAN/CSA-Z10524-1:12 Pressure regulators for use with medical gases — Part 1: Pressure regulators and pressure regulators with flow-metering devices CAN/CSA-Z15002:12 Flow-metering devices for connection to terminal units of medical gas pipeline systems ASME (American Society of Mechanical Engineers) PTC 25-2008 Pressure Relief Devices CGA (Compressed Gas Association) 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</p>		
3	Terminology and definitions		N/A
3.41	HIGH VOLTAGE		N/A
	<i>[Replace this Clause in the Canadian deviations in the adopted Standard with the following]</i>		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	voltage above 1000 V ac for ac circuits or voltage above 1060 V dc for dc circuits, as defined in the <i>Canadian Electrical Code, Part I</i>		
4.	General requirements		P
4.1A	<i>[Add the following clause]</i> General requirements applicable to ME EQUIPMENT and ME SYSTEMS are provided in CAN/CSA-C22.2 No. 0.		P
4.8	Components of ME EQUIPMENT		P
	<i>[Replace Items a) and b) and Note 2 with the following]</i>		P
	a) The applicable safety requirements of a relevant CSA Group, IEC, or ISO Standard; or		P
	b) where there is no relevant CSA Group, IEC, or ISO Standard, the requirements of this Standard shall be applied		P
	Note 2: If there are neither requirements in this Standard nor in a CSA Group, IEC, or ISO Standard, any other applicable source (e.g., standards for other types of devices, national standards) could be used to demonstrate compliance with the RISK MANAGEMENT PROCESS.		---
4.10.2	SUPPLY MAINS for ME EQUIPMENT and ME SYSTEMS		P
	<i>[Replace the first sentence with the following]</i> ME EQUIPMENT intended to be connected to SUPPLY MAINS shall be in accordance with the Canadian Electrical Code, Part I, and the following RATED voltages shall not be exceeded:		P
7.	ME EQUIPMENT identification, marking and documents		P
7.5	Safety signs		N/A
	<i>[Replace the paragraph starting with "When supplementary text" in IEC Amendment 1 with the following]</i> When supplementary text is placed together with safety signs, the supplementary text shall be in English and French for the intended OPERATOR.		N/A
7.7	Colours of the insulation of conductors		P
7.7.1	PROTECTIVE EARTH CONDUCTOR		N/A
	<i>[Replace Clause 7.7.1 in the adopted Standard with the following]</i> A PROTECTIVE EARTH CONDUCTOR shall be identified throughout its length by green or green and yellow coloured insulation.	Component power supply, no power supply cord provided. To be evaluated in the end-product	N/A
7.7.2	PROTECTIVE EARTH CONNECTIONS		P
	<i>[Replace Clause 7.7.2 in the adopted Standard</i>		P

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Clause	Requirement + Test	Result - Remark	Verdict
	<i>with the following]</i> A PROTECTIVE EARTH CONDUCTOR or a PROTECTIVE EARTH CONNECTION of any insulation on conductors shall be identified by either green or green and yellow colours at least at the termination of the conductors.		
7.7.3	Green or green and yellow insulation		P
	<i>[Replace Clause 7.7.3 in the adopted Standard, as modified by IEC Amendment 1, with the following]</i>		P
	Identification by green or green and yellow insulation shall only be used for:		P
	- PROTECTIVE EARTH CONDUCTORS (see Clause 8.6.2);		N/A
	- conductors as specified in Clause 7.7.2; Note: In other safety Standards such as CSA C22.2 No. 62368-1, internal connections between conductive parts and the main protective earth are called "protective bonding conductors".		P
	- POTENTIAL EQUALIZATION CONDUCTORS (see Clause 8.6.7);		N/A
	- FUNCTIONAL EARTH CONDUCTORS (see Clause 8.6.9).		N/A
7.7.4	Neutral conductor		N/A
	<i>[Replace Clause 7.7.4 in the adopted Standard with the following]</i> Colours of neutral conductors and POWER SUPPLY CORD conductors shall be in accordance with the <i>Canadian Electrical Code, Part I</i> , CSA C22.2 No. 21, and CSA C22.2 No. 49.		N/A
7.7.5	POWER SUPPLY CORD conductors		N/A
	<i>[Replace Clause 7.7.5 in the adopted Standard with the following]</i> Colours of conductors in POWER SUPPLY CORDS shall be in accordance with the Canadian Electrical Code, Part I, CSA C22.2 No. 21, and CSA C22.2 No. 49.	Component power supply, no power supply cord provided. To be evaluated in the end-product	N/A
	Compliance with the requirements of Clause 7.7 is checked by inspection.		N/A
7.9	ACCOMPANYING DOCUMENTS		N/A
7.9.2.1	General		N/A
	<i>[Replace the last paragraph in the adopted Standard with the following]</i>	Component power supply, to be evaluated in the end-product	N/A

IEC60601_1U ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
	The instructions for use shall be in English and French for the intended OPERATOR.		
8	Protection against electrical HAZARDS from ME EQUIPMENT		P
8.6	Protective earthing, functional earthing and potential equalization of ME EQUIPMENT		P
8.6.4	Impedance and current-carrying capability		P
	<i>[Replace Clause 8.6.4 in the adopted Standard, as modified by IEC Amendments 1 and 2, with the following]</i>		P
	PROTECTIVE EARTH CONNECTIONS shall be able to carry fault currents reliably and without excessive voltage drop.		P
	Impedance and current-carrying capability shall comply with CSA C22.2 No. 0.4.		P
	For PERMANENTLY INSTALLED ME EQUIPMENT and ME EQUIPMENT with a non-DETACHABLE POWER SUPPLY CORD, the impedance between the PROTECTIVE EARTH TERMINAL (inside the ME EQUIPMENT) and any part that is PROTECTIVELY EARTHED shall not exceed 100 mΩ. For ME EQUIPMENT with an APPLIANCE INLET, the impedance between the earth pin of the APPLIANCE INLET and any part that is PROTECTIVELY EARTHED shall not exceed 100 mΩ.....:		N/A
	In addition to the test above, for ME EQUIPMENT with a non-DETACHABLE POWER SUPPLY CORD or any DETACHABLE POWER SUPPLY CORD (supplied or specified by the MANUFACTURER), the impedance between the protective earth pin of the MAINS PLUG and the PROTECTIVE EARTH TERMINAL (inside the ME EQUIPMENT) shall not exceed 100 mΩ.....:	Tested	P
	Where an APPLIANCE INLET forms the supply connection to ME EQUIPMENT, the earth pin of the APPLIANCE INLET is regarded as the PROTECTIVE EARTH TERMINAL. The combined testing requirements above are equivalent to 200 mΩ impedance testing requirements as described in IEC 60601-1. Separate testing is required to comply with CSA C22.2 No. 0.4.	Tested	P
	<i>Testing shall be carried out using a DETACHABLE POWER SUPPLY CORD as provided or specified (length and cross-sectional area as per the Canadian Electrical Code, Part I) by the MANUFACTURER.</i>		P
	The test current shall have the following characteristics: — for cord-connected equipment, twice the rating of the attachment plug cap, but not less than 40 A; — for equipment for permanent connection to the		P

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Clause	Requirement + Test	Result - Remark	Verdict												
	supply, twice the rating of the fuse that is required by the <i>Canadian Electrical Code, Part I</i> for the branch circuit to which the equipment is connected, up to 250 A; and — 500 A for equipment for permanent connection to the supply when a branch circuit fused at over 250 A is required.														
	Compliance is checked by the following test: — for test currents up to 500 A, the measured potential drop shall not exceed 4 V; — for equipment that requires branch circuit fusing over 250 A, the measured potential drop multiplied by the required fusing and divided by 250 shall not exceed 4 V; — there shall be no melting of any metal in the bond and no heating or burning that is likely to create a fire hazard; and — the time duration— the time duration for testing is indicated in Table 8.6.4A:		P												
	<p style="text-align: center;">Table 8.6.4A Time duration of impedance test current</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Fusing of branch circuit required for equipment (A)</th> <th>Time (min)</th> </tr> </thead> <tbody> <tr> <td>0–30</td> <td>2</td> </tr> <tr> <td>31–60</td> <td>4</td> </tr> <tr> <td>61–100</td> <td>6</td> </tr> <tr> <td>101–200</td> <td>8</td> </tr> <tr> <td>201 and over</td> <td>10</td> </tr> </tbody> </table> <p><small>Note: Additional information can be found in CSA C22.2 No. 0.4.</small></p>	Fusing of branch circuit required for equipment (A)	Time (min)	0–30	2	31–60	4	61–100	6	101–200	8	201 and over	10		P
Fusing of branch circuit required for equipment (A)	Time (min)														
0–30	2														
31–60	4														
61–100	6														
101–200	8														
201 and over	10														
	Alternatively, dc may be used for this test, if the ME EQUIPMENT is rated dc.		N/A												
	<p>Note: When protective earth is relied on as a MEANS OF PROTECTION, the test current is determined based on the location where a fault could occur. If the prospective fault is in the mains supply circuit prior to the overcurrent protection included in the ME EQUIPMENT, the test current for that part of the protective earth circuit is based on the rating of the external overcurrent protection included in the building infrastructure or specified in the ACCOMPANYING DOCUMENTS (two times the interrupt rating of the external overcurrent protection). If the prospective fault is in the mains supply circuit after the overcurrent protection included in the ME EQUIPMENT, the test current is based on the rating of the overcurrent protection included in the ME EQUIPMENT (two times the interrupt rating of the ME EQUIPMENT overcurrent protection). In either case, the minimum test current is 40 A.</p> <p>The voltage drop between the parts described is measured and the impedance determined from the current and voltage drop.</p> <p>If the measured impedance is within the permitted limit, either the impedance measurement is then</p>		P												

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Clause	Requirement + Test	Result - Remark	Verdict
	repeated using a current source with a no-load voltage sufficient to deliver the specified current into the total impedance, or the current-carrying ability of the relevant protective earth conductor and protective earth connection is confirmed by checking that their cross-sectional area is at least equal to that of the relevant current-carrying conductors.		
8.7	LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENTS		P
8.7.3	Allowable values		P
	<i>[Add the following paragraph]</i> Allowable values shall be in accordance with the Canadian Electrical Code, Part I.		P
8.11	MAINS PARTS, components and layout		P
8.11.3.2	Types		N/A
	<i>[Replace this clause with the following]</i>		N/A
	The following requirements for POWER SUPPLY CORDS shall apply:		N/A
	a) The MAINS PLUG of non-PERMANENTLY INSTALLED EQUIPMENT shall be:		N/A
	i) if moulded-on type, a hospital-grade mains plug complying with CSA C22.2 No. 21;	Component power supply, no power supply cords provided. To be evaluated in the end-product.	N/A
	ii) a hospital-grade disassembly attachment plug type complying with CSA C22.2 No. 42; or		N/A
	iii) Class II equipment having fuses on the line side(s), and the neutral may use a non-polarized attachment plug or a polarized attachment plug. CSA configuration type 1-15P shall be required and meets all applicable requirements in CSA C22.2 No. 21 and CSA C22.2 No. 42. Where a polarized attachment plug is used, the POWER SUPPLY CORD is connected to the wiring of the EQUIPMENT on the ungrounded side of the line when any of the following devices are used in the primary circuit:		N/A
	1) the centre contact of an Edison base lampholder;		N/A
	2) a single pole switch;		N/A
	3) an automatic control with a marked off position;		N/A
	4) a solitary fuse/fuse holder; or		N/A
	5) any other single pole overcurrent protective device.		N/A
	b) A detachable POWER SUPPLY CORD for non-PERMANENTLY INSTALLED EQUIPMENT (cord-connected equipment) shall be of a type:		N/A
	i) that can be shown to be unlikely to become detached accidentally, unless it can be shown that detachment will not constitute a safety HAZARD to a PATIENT or OPERATOR;		N/A
	ii) for which it can be shown that the impedance of		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	the earth (ground) circuit contacts will not constitute a safety HAZARD to a PATIENT or OPERATOR; and		
	iii) that has a terminal configuration or other constructional feature that will minimize the possibility of its replacement by a detachable POWER SUPPLY CORD which could create a HAZARDOUS SITUATION.		N/A
	c) The detachable POWER SUPPLY CORD shall:		N/A
	i) comply with the applicable requirements of CSA C22.2 No. 21; and	To be evaluated in the end-product	N/A
	ii) not be smaller than No. 18 AWG, and the mechanical serviceability is not less than:		N/A
	1) Type SJ or equivalent for ME EQUIPMENT that is mobile or exposed to abuse; and		N/A
	2) Type SV or equivalent for ME EQUIPMENT that is not exposed to abuse (or Type HPN if required because of temperature). Note: See CSA C22.2 No. 49 for requirements for the cord types mentioned in Sub-item 2).		N/A
	d) Installation of POWER SUPPLY CORDS shall meet the requirements of the Canadian Electrical Code, Part I, as applicable.		N/A
	<i>[Add the following to this Canadian deviation in the adopted Standard]</i> The POWER SUPPLY CORD used with the ME EQUIPMENT shall be in accordance with the temperature rating to which it has been RATED. Note 1DV: Refer to the Canadian Electrical Code, Part I, Tables 11 and 12 for additional information.		N/A
	Compliance is checked by inspection and measurement.....:		N/A
8.11.3.3	Cross-sectional area of POWER SUPPLY CORD conductors		N/A
	<i>[Replace Clause 8.11.3.3 in the adopted Standard, as modified by Amendment 2, with the following]</i> The NOMINAL cross-sectional area of conductors of any POWER SUPPLY CORD of ME EQUIPMENT shall be not less than the requirements of the Canadian Electrical Code, Part I, and CSA C22.2 No. 21. Note: Table 17 can be used for European countries or other countries where the nominal cross-sectional area is measured in mm ² (HAR); American Wire Gauge (AWG) is the nominal cross-sectional area used in Canada as per the Canadian Electrical Code, Part I.		N/A
	Compliance is checked by inspection.....:		N/A
8.11.5	Mains fuses and OVER-CURRENT RELEASES		P

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Clause	Requirement + Test	Result - Remark	Verdict
	<i>[Replace Clause 8.11.5 in the Canadian deviations in the adopted Standard with the following]</i> Installation of overcurrent protective devices shall be in accordance with the Canadian Electrical Code, Part I		P
9	Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS		N/A
9.7	Pressure vessels and parts subject to pneumatic and hydraulic pressure		N/A
9.7.5	Pressure vessels		N/A
9.7.5	<i>[Replace this clause with the following]</i> Pressure vessels shall comply with the requirements of CSA B51, as applicable		N/A
9.7.7	Pressure-relief device		N/A
	<i>[Add the following as the first paragraph of this Clause]</i> A pressure-relief device shall comply, as applicable, with the requirements of ASME PTC 25 or equivalent Canadian requirements.		N/A
13	HAZARDOUS SITUATIONS and fault conditions		N/A
13.2	SINGLE FAULT CONDITIONS		N/A
13.2.9	Interruption and short circuiting of motor capacitors		N/A
	<i>[Replace the second paragraph of the compliance statement in the adopted Standard with the following]</i> The test with a short-circuited capacitor is not performed if the motor is provided with a capacitor that complies with IEC 60252-1 or is included as part of the evaluation of the motor in accordance with CSA C22.2 No. 100, and the ME EQUIPMENT is not intended for unattended use (including automatic or remote control).		N/A
	For additional test criteria, see Clause 13.2.10.		N/A
15	Construction of ME EQUIPMENT		
15.4	ME EQUIPMENT components and general assembly		
15.4.1	Construction of connectors		N/A
	<i>[Add the following item]</i>		N/A
	bA) The point of connection of gas cylinders to ME EQUIPMENT is gas-specific and clearly identified so that errors are avoided when a replacement is made. Medical gas inlet connectors on ME EQUIPMENT shall be:		N/A
	i) gas-specific, yoke type, or nut and nipple type valve connections complying with CGA V-1 for pressures over 1380 kPa (200 psi); or		N/A
	ii) DISS type complying with CGA V-5 for pressures 1380 kPa (200 psi) or less and configured to permit		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	the supply of medical gases from low-pressure connecting assemblies complying with CAN/CSA-Z5359		
	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.		---
15.4.8	Internal wiring of ME EQUIPMENT		P
	<i>[Replace this Clause with the following]</i>		P
	Internal wiring of ME EQUIPMENT shall be in accordance with the Canadian Electrical Code, Part I.		P
	Except for flexible cord, equipment wire, control circuit insulated conductors, and cable, insulated conductors shall be not smaller than No. 14 AWG when made of copper and not smaller than No. 12 AWG when made of aluminium. Note 1: See the Canadian Electrical Code, Part I, Rule 4-002.		N/A
	The maximum current that an equipment wire of a given size may carry shall be as specified in Table 12 of the Canadian Electrical Code, Part I. Note 2: For additional information refer to the Canadian Electrical Code, Part I, Rule 4-014.		P
15.5	MAINS SUPPLY TRANSFORMERS of ME EQUIPMENT and transformers providing separation in accordance with 8.5		P
15.5.1.3	Overload test		P
	<i>[Replace the second and third dashed items of Item b) of Clause 15.5.1.3 in the adopted Standard with the following]</i>		P
	- Fuses not in accordance with IEC 60127-1 but in accordance with the CSA C22.2 No. 248 series of Standards: 30 min at the current according to the characteristics supplied by the fuse manufacturer, specifically the 30 min clearing-time current. If no 30 min clearing-time current data is available, the test current from Table 32 is used until THERMAL STABILITY is achieved.		N/A
	- Other protective device as per the Canadian Electrical Code, Part I: until THERMAL STABILITY at a current just below that which caused the device to operate in Item a).		P
	This portion of the overload test is concluded at the specified time or when a second protective device opens.		P
16	ME SYSTEMS		N/A
16.1	General requirements for the ME SYSTEMS		N/A
	<i>[Replace the paragraph that starts with "An ME SYSTEM shall provide:" with the</i>		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	<i>following]</i>		
	An ME SYSTEM shall be provided:		N/A
	- within the PATIENT ENVIRONMENT, the level of safety equivalent to ME EQUIPMENT complying with this CSA Group Standard; and		N/A
	- outside the PATIENT ENVIRONMENT, the level of safety equivalent to equipment complying with their respective CSA Group, IEC, or ISO safety Standards.		N/A
	<i>[Replace the third-last paragraph with the following]</i> Non-ME EQUIPMENT, when used in an ME SYSTEM, shall comply with the CSA Group, IEC, or ISO safety Standards that are relevant to that equipment.		N/A
16.9	ME SYSTEM connections and wiring		N/A
16.9.2.1	MULTIPLE SOCKET-OUTLET		N/A
	<i>[Replace the first sentence of Item c) of Clause 16.9.2.1 in the adopted Standard with the following]</i>		N/A
	c) The MULTIPLE SOCKET-OUTLET shall comply with CSA C22.2 No. 308 as applicable and the following requirements.		N/A
	<i>[Add the following note to Item d) in the Canadian deviations in the adopted Standard]</i>		N/A
	d) If the MULTIPLE SOCKET OUTLET is combined with a separating transformer, the following additional requirements shall apply:		N/A
	The separating transformer complies with this Standard.		N/A
	Alternatively, the separating transformer may comply with the requirements of CAN/CSA-E61558-2-1, except that the requirements of maximum RATED output power of 1 kVA and degree of protection IPX4 do not apply.		N/A
	Note 1: As a separating transformer is not a MAINS SUPPLY TRANSFORMER, it does not require more than BASIC INSULATION. Note 2: Limitation of output power is not explained in CAN/CSA-E61558-2-1 and the RATED output power is defined by the fuse in the installation and by the allowable power supply cable used. However, the characteristics of the separating transformer need to be carefully selected, taking into account the variations in the load current of the ME SYSTEM to ensure that the voltage supplied to the various items of the ME SYSTEM remains within the limits specified for the equipment. Note 3: For additional details refer to the Canadian Electrical Code, Part I, Diagrams 1 and 2.		N/A
	The separating transformer assembly shall be a CLASS I construction.		N/A
	The degree of protection against ingress of water as given in IEC 60529 is specified.		N/A
	The separating transformer assembly shall be marked according to the requirements of 7.2 and 7.3.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	The MULTIPLE SOCKET OUTLET is permanently connected to the separating transformer or,		N/A
	The socket-outlet of the separating transformer assembly shall be of a type that cannot accept MAINS PLUGS of any of the kinds identified in Canadian Electrical Code, Part I (see Figure I.1 and Figure I.2 of this Standard)		N/A
	<i>[Add the following item]</i> dA) The MULTIPLE SOCKET OUTLET complies with the requirements of CSA C22.2 No. 42, CSA C22.2 No. 49, and Item d) of this Standard, as applicable.		N/A

ATTACHMENT 4 to TRF IEC60601_1U			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 60601-1 IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012, IEC 60601-1:2005/AMD2:2020 JAPAN NATIONAL DIFFERENCES MEDICAL ELECTRICAL EQUIPMENT — PART 1: GENERAL REQUIREMENTS FOR BASIC SAFETY AND ESSENTIAL PERFORMANCE			
Differences according to National standard JIS T 0601-1:2023			
TRF template used IECCE OD-2020-F3:2022, Ed. 1.2			
Attachment Form No. JP_ND_IEC60601_1U			
Attachment Originator TÜV Rheinland Japan Ltd.			
Master Attachment Dated 2023-08-22			
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	National Differences		P
1	Scope, object and related standards		P
1.3	In NOTE 3, add the following: In Japan, to check the corresponding Japanese Industrial Standard(s) is required.		P
1.4	At the end of NOTE, add the following: In Japan, to check the corresponding Japanese Industrial Standard(s) is required.		P

ATTACHMENT 4 to TRF IEC60601_1U			
Clause	Requirement + Test	Result - Remark	Verdict
2	Normative references		P
2	<p>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</p> <p>JIS B 9718:2013, Safety of machinery - Safety distances to prevent hazard zone being reached by upper and lower limbs NOTE: ISO 13857:2008, Safety of machinery -- Safety distances to prevent hazard zones being reached by upper and lower limbs</p> <p>JIS C 0920:2003, Degrees of protection provided by enclosures (IP Code) NOTE 1: IEC 60529: 1989+AMD1:1999, Degrees of protection provided by enclosures (IP Code) NOTE 2: According to the corresponding international standard, IEC 60529:1989+AMD1:1999 are listed as Normative references, however, the latest edition is edition 2.1 issued in 2001 and the corresponding Japanese Industrial standard was listed as normative reference.</p> <p>JIS C 1509-1, Electroacoustics - Sound level meters (Noise meter) - Part 1: Specifications NOTE: IEC 61672-1, Electroacoustics - Sound level meters - Part 1: Specifications</p> <p>JIS C 1509-2, Electroacoustics - Sound level meters (Noise meter) - Part 2: Pattern evaluation tests NOTE: IEC 61672-2, Electroacoustics - Sound level meters - Part 2: Pattern evaluation tests</p>		P

ATTACHMENT 4 to TRF IEC60601_1U			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>JIS C 4003, Electrical insulation - Thermal evaluation and designation NOTE: IEC 60085, Electrical insulation - Thermal evaluation and designation</p> <p>JIS C 5101-14:2009, Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains 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</p> <p>JIS C 6065:2013, Audio, video and similar electronic apparatus - Safety requirements NOTE: IEC 60065:2001+AMD1:2005+A2:2010, Audio, video and similar electronic apparatus - Safety requirements</p> <p>JIS C 6802:2018, Safety of laser products NOTE: IEC 60825-1:2014, Safety of laser products - Part 1: Equipment classification and requirements</p> <p>JIS C 6950-1:2016, Information technology equipment - Safety - Part 1: General requirements NOTE: IEC60950-1:2005+AMD1:2009+AMD2:2013, Information technology equipment - Safety - Part 1: General requirements</p> <p>JIS C 6965, Mechanical safety of cathode ray tubes NOTE: IEC 61965, Mechanical safety of cathode ray tubes</p> <p>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</p> <p>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 corresponding to IEC/TR 60083, Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC,. Refer to JIS T 1021, too.</p>		P

ATTACHMENT 4 to TRF IEC60601_1U			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>JIS C 9335-1:2014 Household and similar electrical appliances – safety – Part 1: General requirements NOTE: IEC 60335-1:2010 Household and similar electrical appliances – safety – Part 1: General requirements</p> <p>JIS C 60068-2-2:2010, Environmental testing - Part 2-2: Tests - Test B: Dry heat NOTE: IEC 60068-2-2:2007, Environmental testing - Part 2-2: Tests - Tests B: Dry heat</p> <p>JIS C 60664-1:2009, Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests NOTE: IEC 60664-1:2007, Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests</p> <p>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: Test flames - 50 W horizontal and vertical flame test methods</p> <p>JIS C 62368-1:2021, Audio/video information and communication technology equipment – Part 1: Safety requirements NOTE: IEC 62368-1:2018, Audio/video information and communication technology equipment – Part 1: Safety requirements</p> <p>JIS T 0601-1-2:2023, Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance – collateral standard electromagnetic disturbances – requirements and tests NOTE: IEC 60601-1-2:2014+AMD1:2020, Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance – collateral standard electromagnetic disturbances – requirements and tests</p> <p>JIS T 0601-1-3:2015, Medical electrical equipment - Part 1-3: General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment NOTE: IEC60601-1-3:2008+AMD1:2013, Medical electrical equipment - Part 1-3: General requirements for basic safety and essential performance - Collateral standard: Radiation protection in diagnostic X-ray equipment</p>		P

ATTACHMENT 4 to TRF IEC60601_1U			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>JIS T 0801:2016, Sterilization of health care products - Ethylene oxide - Requirements for the development, validation and routine control of a sterilization process for medical devices</p> <p>NOTE 1: ISO 11135-1:2014, Sterilization of health care products - Ethylene oxide - Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices</p> <p>NOTE 2: The cited standard ISO 11135-1:2007 and its corresponding JIS JIS T 0801-1:2010 in the corresponding international standard are both obsolete, so their successors have been added to the cited standards.</p> <p>JIS T 0801-1:2010, Sterilization of health care products - Ethylene oxide - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices</p> <p>NOTE 1: ISO 11135-1:2007, Sterilization of health care products - Ethylene oxide - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices</p> <p>NOTE 2: JIS T 0801-1:2010 and ISO11135-1:2007 are obsolete standards and have been replaced by JIS T 0801:2016 and ISO11135:2014, respectively.</p> <p>JIS T 0806-1:2010, Sterilization of health care products - Radiation - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices</p> <p>NOTE: ISO 11137-1:2006, Sterilization of health care products - Radiation - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices</p> <p>JIS T 0816-1:2010, Sterilization of health care products - Moist heat - Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices</p> <p>NOTE: ISO 17665-1:2006, Sterilization of health care products - Moist heat - Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices</p> <p>JIS T 2304:2017, Medical device software - Software life cycle processes</p> <p>IEC62304:2006+AMD1:2015, Medical device software - Software life cycle processes</p> <p>JIS T 14971:2020, Medical devices - Application of risk management to medical devices</p> <p>NOTE: ISO 14971:2019, Medical devices - Application of risk management to medical devices</p>		P

ATTACHMENT 4 to TRF IEC60601_1U			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>JIS T 60601-1-6:2023, Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability NOTE: IEC60601-1-6:2010+AMD1:2013+AMD2:2020, Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability</p> <p>JIS T 60601-1-8:2023, Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems NOTE: IEC 60601-1-8:2006+AMD1:2012+AMD2:2020, Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems</p> <p>JIS Z 8000-1:2014, Quantities and units- Part 1: General NOTE: ISO 80000-1:2009, Quantities and units - Part 1: General</p> <p>JIS Z 8736-1, Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 1: Measurement at discrete points NOTE: ISO 9614-1, Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 1: Measurement at discrete points</p> <p>IEC 60079-0, Explosive atmospheres – Part 0: Equipment – General requirements”</p> <p>IEC 60079-2, Explosive atmospheres – Part 2: Equipment protection by pressurized enclosure “p”</p> <p>IEC 60079-5, Explosive atmospheres – Part 5: Equipment protection by powder filling “q”</p> <p>IEC 60079-6, Explosive atmospheres – Part 6: Equipment protection by liquid immersion “o”</p> <p>IEC 60086-4, Primary batteries - Part 4: Safety of lithium batteries NOTE: JIS C 8513 Safety of primary lithium batteries</p> <p>IEC 60112, Methods for the determination of the proof and the comparative tracking indices of solid insulating materials</p>		P

ATTACHMENT 4 to TRF IEC60601_1U			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>IEC 60127-1, Miniature fuses - Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links</p> <p>NOTE: JIS C 6575-1 Miniature fuses - Part 1: Definitions of miniature fuses and general requirements for miniature fuse-links</p> <p>IEC 60227-1:2007, Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 1: General requirements</p> <p>NOTE: JIS C 3662-1:2009 Polyvinyl chloride insulated cables of rated voltages up to and including 450/750V - Part 1: General requirements</p> <p>IEC 60245-1:2003+AMD1:2007, Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 1: General requirements</p> <p>IEC 60252-1, AC motor capacitors - Part 1: General - Performance, testing and rating - Safety requirements - Guidance for installation and operation</p> <p>IEC 60320-1, Appliance couplers for household and similar general purposes - Part 1: General requirements</p> <p>IEC 60364-4-41, Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock</p> <p>IEC 60445, Basic and safety principles for man-machine interface markings and identification – Identification of equipment terminals, conductor terminations and conductors</p> <p>IEC 60447, Basic and safety principles for man-machine interface markings and identification – Actuating principles</p> <p>IEC 60730-1:2010, Automatic electrical controls for household and similar use – Part 1: General requirements</p> <p>IEC 60747-5-5:2007, Semiconductor devices – Discrete devices – Part 5-5: Optoelectronic devices – Photocouplers</p> <p>IEC 60851-3:2009, Winding wires - Test methods - Part 3: Mechanical properties</p>		P

ATTACHMENT 4 to TRF IEC60601_1U			
Clause	Requirement + Test	Result - Remark	Verdict
2	<p>IEC 60851-5:2008, Winding wires - Test methods - Part 5: Electrical properties</p> <p>IEC 60851-6:1996+AMD1:1997, Methods of test for winding wires - Part 6: Thermal properties</p> <p>IEC 61058-1:2000+AMD1:2001+AMD2:2007, Switches for appliances - Part 1: General requirements</p> <p>IEC 62133:2012, 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</p> <p>NOTE: Although a withdrawn standard, it is cited in 15.4.3.4 of this standard</p> <p>IEC 62133-2, 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 – Part 2: Lithium systems</p> <p>ISO 1853, Conducting and dissipative rubbers, vulcanized or thermoplastic - Measurement of resistivity</p> <p>ISO 2878, Rubber, vulcanized or thermoplastic - Antistatic and conductive products - Determination of electrical resistance</p> <p>ISO 2882:1979, Rubber, vulcanized - Antistatic and conductive products for hospital use - Electrical resistance limits</p> <p>NOTE: Although it is a withdrawn standard, it is referenced in Annex G of this standard.</p> <p>ISO 3746, Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure – Survey method using an enveloping measurement surface over a reflecting plane</p> <p>ISO 7010:2019, Graphical symbols - Safety colours and safety signs - Registered safety signs</p>		P
2	<p>ISO 10993 (all parts), Biological evaluation of medical devices</p> <p>NOTE: JIS T 0993-1 Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process. However, other Parts than Part 1 and Part 7 have still not been published as JIS.</p> <p>ISO 23529, Rubber -- General procedures for preparing and conditioning test pieces for physical test methods</p>		P

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Clause	Requirement + Test	Result - Remark	Verdict
3	Terminology and definitions		P
3.70	Replace the existing text with: condition in which all means provided for protection against HAZARDOUS SITUATIONS or HARM are intact		P
7	ME EQUIPMENT identification, marking and documents		P
7.3	Marking on the inside of ME EQUIPMENT or ME EQUIPMENT parts		P
7.3.4	Add the following NOTE NOTE Corresponding Japanese Industrial Standard for IEC 60127-1: JIS C 6575-1		P
7.4	Marking of controls and instruments		N/A
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 8000-1:2014 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 "l" is used for litre, although the symbol "L" is also given in JIS Z 8000-1:2014.		N/A
7.6	Symbols		P
7.6.2	Replace the existing text with the following: Symbols require by this standard shall conform to the requirements in the referenced JIS, IEC or ISO publication. Annex D provides the symbol graphic and description for these symbols as a quick references.		P
7.6.3	Replace the existing text with the following: Symbols used for controls and performance shall confirm to the requirements of the JIS, IEC or ISO publication where the symbol is defined, when applicable. See also 7.2.13.		P
7.7	Colours of the insulation of conductors		P
7.7.4	Under the existing text, add the following: If polyvinyl chloride insulated flexible cord of JIS C 3306:2000 or rubber insulated flexible cord of JIS C 3301:2000 is used, the conductor may be coloured "white".		P

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7.7.5	Under the existing text, add the following: If polyvinyl chloride insulated flexible cord of JIS C 3306:2000 or rubber insulated flexible cord of JIS C 3301:2000 is used, conductors may be of the colour specified in these standards.		P
7.8	Indicator lights and controls		N/A
7.8.1	Replace the description of "Accompanied by sound" column of "HIGH PRIORITY ALARM CONDITION" with the following: Typically, combine Replace the description of "Accompanied by sound" column of "MEDIUM PRIORITY ALARM CONDITION" with the following: Typically, combine Add "e" of Table 2 with the following note: Note: "Cyan" is a common colour name for "bright greenish blue" (see Appendix 1 of JIS Z 8102: 2001).		N/A
7.9	ACCOMPANYING DOCUMENTS		P
7.9.3.2	Replace the fourth dash with the following: — where replacement of a component could result in an unacceptable RISK, appropriate warnings that identify the nature of the HAZARDOUS SITUATION and, if the MANUFACTURER specifies the component as replaceable by SERVICE PERSONNEL, all information necessary to safely replace the component.		P
8	Protection against electrical hazards from me equipment		P
8.4	Limitation of voltage, current or energy		N/A
8.4.4	Replace the non-automatic discharging device with the means of manual discharge of the non-automatic discharging device in the 2 nd paragraph. Replace a non-automatic discharging device with a means of manual discharge of the non-automatic discharging device in the last paragraph.		N/A
8.8	Insulation		N/A
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.		N/A

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8.11	Mains parts, components and layout		P
8.11.3.2	<p>Add the following between the first paragraph and the second paragraph:</p> <p>And, rubber insulated flexible cords of JIS C 3301:2000, polyvinyl chloride insulated flexible cords of JIS C 3306:2000 or cords of which the robustness is equal to or more than those may be used</p> <p>Add the following between the second paragraph and the last paragraph:</p> <p>And, in the case of cords of JIS C 3306:2000, shall not use;</p> <p>Polyvinyl chloride insulated flexible cords shall not be used if the temperature of the above-mentioned external metal part exceeds 60 °C, and;</p> <p>Heat-resistant polyvinyl chloride insulated flexible cords shall not be used if the temperature of the above-mentioned external metal part exceeds 75 °C.</p>		P
9	Protection against mechanical hazards of me equipment and me systems		N/A
9.2	Hazards associated with moving parts		N/A
9.2.4	In e), replace a further "MECHANICAL HAZARD" and the original "HAZARD" with a further "HAZARDOUS SITUATION" and the original "HAZARDOUS SITUATION", respectively.		N/A
9.4	Instability HAZARDS		N/A
9.4.4	Add "(four times the weight of the equipment)" to the last sentence of 7th paragraph.		N/A
10	Protection against unwanted and excessive radiation hazards		N/A
10.4	Replace the last paragraph with the following: Compliance is checked by following the relevant PROCEDURES of JIS C 6802:2018.		N/A
11	Protection against excessive temperatures and other hazards		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		N/A
11.6.7	Replace "ISO 11135-1, ISO 11137-1 or ISO 17665-1" with "JIS T 0801-1:2010, JIS T 0801:2016, JIS T 0806-1:2010 or JIS T 0816-1:2010"		N/A
11.6.8	Replace "the application of appropriate ISO or IEC standards" with "the application of appropriate JIS, ISO or IEC standards"		N/A

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16	ME systems		N/A
16.1	<p>Replace in paragraph 3; 2nd dash: "IEC or ISO standards" by "JIS, IEC or ISO standards"</p> <p>Replace the last two paragraphs with the following: Otherwise, non-ME EQUIPMENT shall be those which are in compliance with relevant JIS standards or the Technical Requirements of the Electrical Appliances and Materials Safety Act or which ensure safety equivalent to the said standards/technical requirements. Equipment in which protection against electric shock relies only on BASIC INSULATION shall not be used in an ME SYSTEM. For the measures for ensuring safety, e.g. in the case combined with a separating transformer having DOUBLE INSULATION or REINFORCED INSULATION, equipment only with BASIC INSULATION may be used. <i>Compliance is checked by inspection of appropriate documents or certificates.</i></p>		N/A
16.9	ME system connections and wiring		N/A
16.9.2	Mains parts, components and layout		N/A
16.9.2.1	<p>In the text of a) replace "IEC/TR 60083" with "JIS C 8303"</p> <p>In the text of c), replace "IEC 60884-1" with "IEC 60884-1 or JIS C 8282-1".</p> <p>In the text of d) replace "IEC/TR 60083" with "JIS C 8303"</p>		N/A