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UL TEST REPORT AND PROCEDURE

Standard: ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10)(Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and **Essential Performance)** CAN/CSA-C22.2 No. 60601-1 (2008) (Medical Electrical Equipment -Part 1: General Requirements for Basic Safety and Essential Performance) **Certification Type:** Component Recognition CCN: QQHM2, QQHM8 (Power Supplies, Medical and Dental) Product: Medical use DC-DC power charger Model: GTM93007CCA5024-5.0 Rating: Input Input Voltage: +19Vdc Input Current: 2.63A Output Charging Voltage: 14.6Vdc Bulk Charge Current: 750mA Output Power: 10.95Watts per bay, 43.8 Watts total power Applicant Name and Address: GLOBTEK (HONG KONG) LTD UNIT 1402. BENSON TOWER 74 HUNG TO RD **KWUN TONG** KOWLOON HONG KONG

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared by: Jeffery Chan/Anli Niu Reviewed by: Calvin Tang

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Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - Part AC details important information which may be applicable to products covered by this Procedure.
 Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
 - ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
 - iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

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Product Description

GTM93007CCA5024-5.0, DC-DC power supply for medical end use. Input and output are both low voltage. No isolation transformer is required.

Model Differences

N/A

Technical Considerations

- Classification of installation and use: Transportable
- Device type (component/sub-assembly/ equipment/ system): Component
- Intended use (Including type of patient, application location): None
- Mode of operation : Continuous
- Supply connection : Appliance coupler
- Accessories and detachable parts included : None
- Other options include : None
- The product was investigated to the following additional standards:: CAN/CSA-C22.2 No. 60601-1 (2008) (Medical Electrical Equipment Part 1: General Requirements for Basic Safety and Essential Performance) (includes National Differences for Canada), ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10) (Medical Electrical Equipment Part 1: General Requirements for Basic Safety and Essential Performance) (includes Deviations for United States)
- The product was not investigated to the following standards or clauses:: Biocompatibility (ISO 10993-1), Clause 14, Programmable Electronic Systems, Electromagnetic Compatibility (IEC 60601-1-2)
- The degree of protection against harmful ingress of water is:: Ordinary
- The mode of operation is:: Continuous
- The product is suitable for use in the presence of a flammable anesthetics mixture with air or oxygen or with nitrous oxide:: No

Engineering Conditions of Acceptability

For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

This supply was tested with the specified adapter GTM21097-5024-5.0 on a 20A branch circuit. If

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used on a branch circuit greater than this, additional testing may be necessary.

- Consideration shall be given to measuring the temperatures on power electronic components when the supply is installed in/with the end-use equipment.
- The input and output voltage of the product is SELV.
- The following tests shall be performed in the end-product evaluation: Temperature Test, Dielectric Voltage Withstand Tests, eaithing test and Leakage Current Test.
- This supply is operated up to 4000m above sea level as declared by manufacturer.
- The disconnection from the mains must be considered in the end product.
- Instructions and equipment marking shall be provided in a language, which is acceptable in the country in which the equipment is to be installed.
- End product Risk Management Process to include consideration of requirements specific to the Power supply.
- End product Risk Management Process to consider the need for simultaneous fault condition testing.
- End product Risk Management Process to consider the need for different orientations of installation during testing.
- End product to determine the acceptability of risk in conjunction to insulation to resistance to heat, moisture, and dielectric strength.
- End product to determine the acceptability of risk in conjunction to the movement of components as part of the power supply.
- End product to determine the acceptability of risk in conjunction to the routing of wires away from moving parts and sharp edges as part of the power charger.
- Temperature Test was conducted without Test Corner. End product to determine the acceptability of risk in conjunction to temperature testing without test corner as part of the power supply.
- End product to determine the acceptability of risk in conjunction to the Cleaning and Disinfection Methods as part of the power supply.
- End product to determine the acceptability of risk in conjunction to the Leakage of Liquids as part of the power supply.

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- End product to determine the acceptability of risk in conjunction to the Arrangement of Indicators as part of the power supply.
- End product to determine the acceptability of risk in conjunction to the results of Mechanical Testing conducted as part of the power supply.
- End product to determine 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.
- End product to determine the acceptability of risk in conjunction to the use of Thermal Cut-off and Overcurrent releases as part of the power supply.
- End product to determine the acceptability of risk in conjunction to the use of Pre-set controls as part of the power supply.
- The end-product evaluation shall ensure that the requirements related to , Accompanying Documents, Clause 7.9 are met.
- This power supply has been evaluated as a internally powered production, continuous operation, ordinary Equipment and has not been evaluated for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide. An additional evaluation shall be made if the power supply is intended for use in other than double insulation production.

Additional Information

This is a secondary charger for medical use. No primary isolation is required.

Additional Standards

The product fulfills the requirements of: CAN/CSA-C22.2 No. 60601-1 (2008) (Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance) (includes National Differences for Canada)

Markings and instructi	Markings and instructions				
Clause Title	Marking or Instruction Details				
Company identification	Classified or Recognized company's name, Trade name, Trademark or File				
Model	Model number				
Direct current					
Supply Connection	Voltage range, ac/dc, phases if more than single phase				
Power Input	Amps, VA, or Watts				
Output	Rated output voltage, power, frequency.				
Special Instructions to	III Panrasantativa				

Special Instructions to UL Representative

N/A

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Production-Line Testing	Production-Line Testing Requirements					
Test Exemptions - The fol	llowing models are exempt	from the indicated test				
Model	Grounding Continuity	Dielectric Voltage Withstand	Patient Circuit Dielectric Voltage Withstand			
N/A						
	circuitry during either Dielect	wing solid-state component tric Voltage Withstand Test: ponent	s may be disconnected			
	N	/A				
Sample and Test Specific	s for Follow-Up Tests at U	<u>JL</u>				
The following tests shall be conducted in accordance with the Generic Inspection Instructions						
Plastic Enclosure or Part	Test	Sample(s)	Test Specifics			
N/A						

TABLE: List of Critical Components

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
Enclosure	SABIC(E45329)	C2950 SE1 SE100	94V-0, 85°C	QMFZ2/8	UL/cUL
PCB	Various	Various	94V-0, 130°C	ZPMV2	
Fuse (F1)	Walter Electronics(E56092)	F93,1206F	Min 6.3A,63V	JDYX2/8	UL/cUL
	Schurter AG (E41599)	USI 1206	Min 6.3A,64V	JDYX2/8	UL/cUL
	Current Electronic Technology(E303641)	F93, 1206F	Min 6.3A,63V	JDYX2/8	UL/cUL
	Littelfuse(E10480)	458	Min 6.3A,63V	JDYX2/8	UL/cUL
	Conquer Electronics(E82636)	CQ12LT CQ12LF	Min 6.3A,63V	JDYX2/8	UL/cUL
Power adapter	GlobTek(E341350)	GTM21097-5024- 5.0	Max. 50-60HZ I/P:100-240V~, 1.6A O/P:19Vdc, 2.63A	QQHM2/8	UL/cUL
Power supply cord	Various	Various	Min 10A,125V AC,18AWG*3C,105 deg. C	ELBZ2	UL

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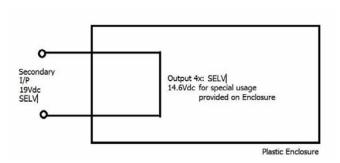
Enclosures

<u>Type</u>	Supplement Id	<u>Description</u>
Collateral		
Particular		
Photographs	3-01	External View 1
Photographs	3-02	External View 2
Photographs	3-03	Internal View 1
Photographs	3-04	Internal View 2
Diagrams	4-01	Specification for charger
Schematics + PWB	5-01	PCB Layout
Manuals		
Miscellaneous	7-02	Client declaration table

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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict

INSULATION DIAGRAM



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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict

Table	Table: to insulation diagram								
Pollut	tion Degree		Overvoltage Category Altitude Additional details on parts considered as applied parts (See clause 4.6 for details)						
2			1	4000m		None			
Area	Number and type of Means of Protection (MOOP/MOPP)	CTI (IIIb, unless is known)	Working Voltage Vrms	Working Voltage, Vpk	Required Creepage (mm)	Required Clearance (mm)	Measured Creepage (mm)		Remarks
-	-	-	-	-	-	-	-	-	-
МОО	MOOP, SELV input and output, no spacing is required.								

INSULATION DIAGRAM CONVENTIONS and GUIDANCE:

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

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

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

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	IEC 60	601	
Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		Pass
4.1	Requirements of this standard applied in NORMAL USE and reasonably foreseeable misuse		Pass
4.2	A RISK MANAGEMENT PROCESS complying with ISO 14971 was performed:	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
1.3	ESSENTIAL PERFORMANCE functions identified according to MANUFACTURER'S policy for RISK acceptability in RISK MANAGEMENT FILE:	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
	ESSENTIAL PERFORMANCE functions maintained following particular tests as applicable		N/A
1.4	EXPECTED SERVICE LIFE stated in RISK MANAGEMENT FILE:	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
4.5	Alternative means of addressing particular RISKS considered acceptable based on MANUFACTURER'S justification that RESIDUAL RISKS resulting from application of alternative means equal to or less than RESIDUAL RISKS resulting from requirements of this standard:	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
1.6	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	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
1.7	ME EQUIPMENT remained SINGLE FAULT SAFE, or the RISK remained acceptable as determined by Clause 4.2:	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	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:	The RM requirements of the standard were not addressed.	N/A
	RISK associated with failure of component during EXPECTED SERVICE LIFE of ME EQUIPMENT taken into account to evaluate if a component should be subjected to failure simulation		N/A
4.8	All components and wiring whose failure could result in a HAZARDOUS SITUATION used according to their applicable ratings, except as specified, or by RISK MANAGEMENT PROCESS:	All components are used within their specified ratings. An additional evaluation an RM process shall be made if the supply is intended to be	Pass

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

		used in other than specified ratings.	
	Reliability of components used as MEANS OF PROTECTION assessed for conditions of use in ME EQUIPMENT, and they complied with one of the following:		Pass
	a) Applicable safety requirements of a relevant IEC or ISO standard	See TABLE: List of Critical Components	Pass
	b) Requirements of this standard applied in the absence of a relevant IEC or ISO standard	Parts of components were tested with the requirements of ANSI/AAMI ES60601-1.	Pass
4.9	A COMPONENT WITH HIGH-INTEGRITY CHARACTERISTICS provided because a fault in a particular component can generate an unacceptable RISK	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
	COMPONENTS WITH HIGH-INTEGRITY CHARACTERISTICS selected and evaluated consistent with their conditions of use and reasonable foreseeable misuse during EXPECTED SERVICE LIFE of ME EQUIPMENT by reviewing RISK MANAGEMENT FILE	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
4.10	Power supply		Pass
4.10.1	ME EQUIPMENT is suitable for connection to a SUPPLY MAINS, specified to be connected to a separate power supply, can be powered by an INTERNAL ELECTRICAL POWER SOURCE, or a combination of the three	The product is suitable to be connected to the specified adapter GTM21097-5024-5.0.	Pass
4.10.2	Maximum rated voltage for ME EQUIPMENT intended to be connected to SUPPLY MAINS is 250 V for HAND-HELD ME EQUIPMENT (V):	Rated input voltage is 19V DC	N/A
	- 250 V d.c. or single-phase a.c., or 500 V polyphase a.c. for ME EQUIPMENT and ME SYSTEMS with a RATED input ≤ 4 kVA (V):	19Vdc	Pass
	- 500 V for all other ME EQUIPMENT and ME SYSTEMS		N/A
4.11	Power input		Pass
	Steady-state measured input of ME EQUIPMENT or ME SYSTEM at RATED voltage and at operating settings indicated in instructions for use did not exceed marked rating by more than 10%:	See appended Table 4.11	Pass
	- Measurements on ME EQUIPMENT or a ME SYSTEM marked with one or more RATED voltage ranges made at both upper and lower limits of the	Rated voltage: 19Vdc	Pass

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	IEC 60601					
Clause	Requirement + Test	Result - Remark	Verdict			
	range:					
	Measurements made at a voltage equal to the mean value of the range when each marking of RATED input was related to the mean value of relevant voltage range	No such marking	N/A			

Power input, expressed in volt-amperes, measured | See appended Table 4.11

with a volt-ampere meter or calculated as the product of steady state current (measured as described above) and supply voltage.....

Pass

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	IEC 60	601	
Clause	Requirement + Test	Result - Remark	Verdict

5	GENERAL REQUIREMENTS FOR TESTING ME E	QUIPMENT	Pass
5.1	TYPE TESTS determined in consideration of Clause 4, in particular 4.2	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
	Test not performed when analysis indicated condition being tested was adequately evaluated by other tests or methods:	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
	Results of RISK ANALYSIS used to determine combination(s) of simultaneous faults to be tested		N/A
5.2	TYPE TESTS conducted on one representative sample under investigation; multiple samples used simultaneously when validity of results was not significantly affected	Since not significantly affected the testing result, tests were conducted on multiple samples.	Pass
5.3	a) Tests conducted within the environmental conditions specified in technical description		Pass
	Temperature (°C), Relative Humidity (%):		-
	Atmospheric Pressure (kPa):		-
	b) ME EQUIPMENT shielded from other influences that might affect the validity of tests	No such situation.	N/A
	c) Test conditions modified and results adjusted accordingly when ambient temperature could not be maintained:	No such situation.	N/A
5.4	a) ME EQUIPMENT tested under least favourable working conditions specified in instructions for use and identified during RISK ANALYSIS, except as noted:	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
	b) ME EQUIPMENT with adjustable or controlled operating values by anyone other than SERVICE PERSONNEL adjusted to values least favourable for the relevant test per instructions for use	The product is a charger only the application of this clause shall be evaluated in the end application	N/A
	c) When test results influenced by inlet pressure and flow or chemical composition of a cooling liquid, tests performed within the limits in technical description	The product is a charger only the application of this clause shall be evaluated in the end application	N/A
	d) Potable water used for cooling	The product is a charger only ,the application of this clause shall be evaluated in the end application	N/A
5.5	Supply voltage during tests was the least favourable of the voltages specified in 4.10 or voltages marked on ME EQUIPMENT (V):	This production is powered by specified adapter GTM21097-5024-5.0	Pass

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	IEC (50601	
Clause	Requirement + Test	Result - Remark	Verdict

	ME EQUIPMENT marked with a RATED frequency range tested at the least favourable frequency within the range (Hz):	19V DC	Pass
	ME EQUIPMENT with more than one RATED voltage, or both a.c./ d.c. tested in conditions (see 5.4) related to the least favourable voltage, nature of supply, and type of current:	19V DC	N/A
	ME EQUIPMENT tested with alternative ACCESSORIES and components specified in ACCOMPANYING DOCUMENTS to result in the least favourable conditions:	No such construction.	N/A
	ME EQUIPMENT connected to a separate power supply as specified in instructions for use	No such construction.	N/A
5.6	When failure occurred or probability of future failure detected during sequence of tests, per agreement with manufacturer, all tests affecting results conducted on a new sample		Pass
	Alternatively, upon repair and modification of the sample, only the relevant tests conducted		Pass
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		N/A
	Manually detachable parts removed and treated concurrently with major parts and manually removable ACCESS COVERS were opened and detached	No such construction.	N/A
	ME EQUIPMENT heated to a temperature between T and T + 4 °C for at least 4 h and placed in a humidity chamber with a relative humidity of 93 % ± 3 % and an ambient within 2 °C of T in the range of + 20 °C to + 32 °C for 48 h		Pass
	When RISK MANAGEMENT PROCESS indicated ME EQUIPMENT can be exposed to high humidity for extended periods (i.e., out-door use), test time extended proportionally (h):		N/A
5.8	Unless stated otherwise, tests in this standard sequenced as in Annex B to prevent results of one test on a subsequent test		Pass
5.9	Determination of APPLIED PARTS and ACCESSIBI	LE PARTS	Pass
5.9.1	APPLIED PARTS identified by inspection and reference to ACCOMPANYING DOCUMENTS:	The product is a DC supply .	N/A
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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict

5.9.2	ACCESSIBLE PARTS		Pass	
5.9.2.1	Accessibility, when necessary, determined using standard test finger of Fig 6 applied in a bent or straight position	See Appended Table 5.9.2	Pass	
	Openings preventing entry of test finger of Fig. 6 mechanically tested with a straight un-jointed test finger of the same dimensions with a force of 30 N		N/A	
	When the straight un-jointed test finger entered, test with the standard test finger (Fig 6) was repeated, if necessary, by pushing the finger through the opening		N/A	
5.9.2.2	Test hook of Fig. 7 inserted in all openings of ME EQUIPMENT and pulled with a force of 20 N for 10 s		N/A	
	All additional parts that became accessible checked using standard test finger and by inspection		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:	The product is charger, no accessible part.	N/A	
	Conductive parts of actuating mechanisms not considered ACCESSIBLE PARTS when removal of handles, knobs, etc. required use of a TOOL, and inspection of RISK MANAGEMENT FILE indicated the relevant part is unlikely to detach unintentionally during EXPECTED SERVICE LIFE of ME EQUIPMENT		N/A	

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	IEC	60601	
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6	CLASSIFICATION OF ME EQUIPMENT AND ME	SYSTEMS	Pass
6.2	CLASS I ME EQUIPMENT, externally powered		N/A
	CLASS II ME EQUIPMENT, externally powered		N/A
	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	This is a secondary charger component. To be classified in end system.	N/A
	TYPE B APPLIED PART	No applied parts. The application of this clause shall be evaluated in the end application.	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 (IPN1N2) as per IEC 60529	Ordinary	Pass
6.4	ME EQUIPMENT or its parts intended to be sterilized classified according to method(s) of sterilization in instructions for use:	The application of this clause shall be evaluated in end application.	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	Not intended to use in an oxygen rich environment.	N/A
6.6	CONTINUOUS or Non-CONTINUOUS OPERATION:	Continuous	Pass

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	IEC 60	601	
Clause	Requirement + Test	Result - Remark	Verdict

ME EQUIPMENT IDENTIFICATION, MARKING, AI	ND DOCUMENTS	Pass
RISK of poor USABILITY associated with the design of ME EQUIPMENT'S identification and marking addressed in a USABILITY ENGINEERING PROCESS	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
Legibility of Markings Test for Markings specified in Clause 7.2-7.6:	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end application.	N/A
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	Component evaluation, the acceptability of risk of the charger will be determined in the end production	N/A
a) After tests, adhesive labels didn't loosen up or curl up at edges and markings complied with requirements in Clause 7.1.2:	To be evaluated in the end application.	N/A
b) Markings required by 7.2-7.6 remained CLEARLY LEGIBLE after marking durability test:	To be evaluated in the end application.	N/A
Marking on the outside of ME EQUIPMENT or ME EQUIPMENT parts		Pass
At least markings in 7.2.2, 7.2.5, 7.2.6 (not for PERMANENTLY INSTALLED ME EQUIPMENT), 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	To be evaluated in the end application.	N/A
Remaining markings fully recorded in ACCOMPANYING DOCUMENTS:	To be evaluated in the end application.	N/A
Markings applied to individual packaging when impractical to apply to ME EQUIPMENT	To be evaluated in the end application.	N/A
A material, component, ACCESSORY, or ME EQUIPMENT intended for a single use, or its packaging marked "Do Not Reuse" or with symbol 28 of Table D.1 (ISO 7000-1051, DB:2004-01):	No such construction.	N/A
2.2 MANUFACTURER's name or trademark marked on ME EQUIPMENT and detachable components:	E341350	Pass
Misidentification does not present an unacceptable risk	Component evaluation, the acceptability of risk of the power supply to be determined	N/A
	as part of the end application.	

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

	except when misidentification would not present an unacceptable RISK:		
	Software forming part of a PEMS identified with a unique identifier, such as revision level or date of release/issue, and identification are available to designated persons:	No such part.	N/A
7.2.3	Symbol 11 on Table D.1 (ISO 7000-1641, DB: 2004-01) used, optionally, advice to OPERATOR to consult ACCOMPANYING DOCUMENTS	See the label information	Pass
	Safety sign 10 on Table D.2 (safety sign IEC 60878 Safety 01) used, advising OPERATOR that ACCOMPANYING DOCUMENTS must be consulted		Pass
7.2.4	ACCESSORIES marked with name or trademark of MANUFACTURER or supplier, and with a MODEL or TYPE REFERENCE:	No accessories.	N/A
	Markings applied to individual packaging when not practical to apply to ACCESSORIES	No accessories.	N/A
7.2.5	MODEL or TYPE REFERENCE of equipment to be connected to ME EQUIPMENT to provide power, is marked adjacent to the relevant connection point when this connection could result in an unacceptable RISK	No such construction.	N/A
7.2.6	Connection to the Supply Mains		
	Except for PERMANENTLY INSTALLED ME EQUIPMENT, marking appearing on the outside of part containing SUPPLY MAINS connection and, adjacent to connection point		Pass
	For PERMANENTLY INSTALLED ME EQUIPMENT, NOMINAL supply voltage or range marked inside or outside of ME EQUIPMENT, preferably, adjacent to supply connection terminals	No permanently installed ME equipment.	N/A
	- RATED supply voltage(s) or RATED voltage range(s) with a hyphen (-) between minimum and maximum voltages (V, V-V):	19Vdc	Pass
	Multiple RATED supply voltages or multiple RATED supply voltage ranges are separated by (V/V)	No Multiple rated supply voltages or multiple rated supply voltage.	N/A
	- Nature of supply (e.g., No. of phases, except single-phase) and type of current:	DC	Pass
	Symbols 1-5, Table D.1 (symbols of IEC 60417-5032, 5032-1, 5032-2, 5031, and 5033, all DB: 2002-10) used, optionally, for same parameters:		N/A

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	IEC 6060	1	
Clause	Requirement + Test	Result - Remark	Verdict

	- RATED supply frequency or RATED frequency range in hertz:	50/60 Hz	Pass
	- Symbol 9 of Table D.1 (symbol IEC 60417-5172, DB: 2003-02) used for CLASS II ME EQUIPMENT:		N/A
7.2.7	RATED input in amps or volt-amps, or in watts when power factor exceeds 0.9 (A, VA, W):	2.63A	Pass
	RATED input for one or more RATED voltage ranges provided for upper and lower limits of the range or ranges when the range(s) is/are greater than ± 10 % of the mean value of specified range (A, VA,W)		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
	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):	To be evaluated in the end application.	N/A
7.2.8	Output connectors		Pass
7.2.8.1	See 16.9.2.1 b) for MULTIPLE SOCKET-OUTLETS integral with ME EQUIPMENT	Not multiple socket-outlets.	N/A
7.2.8.2	Output connectors are marked, except for MULTIPLE SOCKET-OUTLETS or connectors intended for specified ACCESSORIES or equipment	See the label information at the enclosure 4-01	Pass
	Rated Voltage (V), Rated Current (A):		-
	Rated Power (W), Output Frequency (Hz):		-
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):	ORDINARY	N/A
7.2.10	Degrees of protection against electric shock as classified in 6.2 for all APPLIED PARTS marked with relevant symbols as follows (not applied to parts identified according to 4.6):	No applied parts	N/A
	TYPE B APPLIED PARTS with symbol 19 of Table D.1 (IEC 60417-5840, DB: 2002-10), not applied in such a way as to give the impression of being inscribed within a square in order to distinguish it from symbol IEC 60417-5333		N/A

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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict
	TYPE BF APPLIED PARTS with symbol 20 of Table D.1 (IEC 60417-5333, DB: 2002-10):		N/A
	TYPE CF APPLIED PARTS with symbol 21 of Table D.1 (IEC 60417-5335, DB: 2002-10):		N/A
	DEFIBRILLATION-PROOF APPLIED PARTS marked with symbols 25-27 of Table D.1 (IEC 60417-5841, IEC 60417-5334, or IEC 60417-5336, all DB: 2002-10)		N/A
	Proper symbol marked adjacent to or on connector for APPLIED PART, except marked on APPLIED PART when there is no connector, or connector used for more than one APPLIED PART and different APPLIED PARTS with different classifications		N/A
	Safety sign 2 of Table D.2 (ISO 7010-W001) placed near relevant outlet when protection against effect of discharge of a cardiac defibrillator is partly in the PATIENT cable:		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 not marked to the contrary assumed to be suitable for CONTINUOUS OPERATION	Continuous operation	Pass
	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	The product is charger without the fuse holder	N/A
	Fuse type		-
	Voltage (V) and Current (A) rating		-
	Operating speed (s) and Breaking capacity:		-
7.2.13	A safety sign CLEARLY LEGIBLE and visible after INSTALLATION in NORMAL USE applied to a prominent location of EQUIPMENT that produce physiological effects capable of causing HARM to PATIENT or OPERATOR not obvious to OPERATOR	To be evaluated in the end application.	N/A
	Nature of HAZARD and precautions for avoiding or minimizing the associated RISK described in instructions for use:	To be evaluated in the end application.	N/A
7.2.14	HIGH VOLTAGE TERMINAL DEVICES on the	To be evaluated in the end	N/A

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

	outside of ME EQUIPMENT accessible without the	application.	
	use of a TOOL marked with symbol 24 of Table D.1 (symbol IEC 60417-5036, DB: 2002-10)	application.	
7.2.15	Requirements for cooling provisions marked (e.g., supply of water or air):		N/A
7.2.16	ME EQUIPMENT with limited mechanical stability	To be evaluated in the end application.	N/A
7.2.17	Packaging marked with special handling instructions for transport and/or storage	Final package shall be evaluated in the end application.	N/A
	Permissible environmental conditions for transport and storage 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
	Packaging of sterile ME EQUIPMENT or ACCESSORIES marked sterile		N/A
7.2.18	RATED maximum supply pressure from an external source marked on ME EQUIPMENT adjacent to each input connector:	No such construction.	N/A
7.2.19	Symbol 7 of Table D.1 (IEC 60417-5017, DB:2002- 10) marked on FUNCTIONAL EARTH TERMINAL	No Functional Earth. To be considered in the end application.	N/A
7.2.20	Protective means, required to be removed to use a particular function of ME EQUIPMENT with alternate applications, marked to indicate the necessity for replacement when the function is no longer needed:	To be considered in end application.	N/A
	No marking applied when an interlock provided		N/A
7.3	Marking on the inside of ME EQUIPMENT or ME EC	QUIPMENT parts	Pass
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 or lampholders provided.	N/A
	A marking referring to ACCOMPANYING DOCUMENTS provided for heating elements or lamp-holders designed for heating lamps that can be changed only by SERVICE PERSONNEL using a TOOL		N/A
7.3.2	Symbol 24 of Table D.1 (symbol IEC 60417-5036, DB: 2002-10), or safety sign 3 of Table D.2 used to mark presence of HIGH VOLTAGE parts:	DC-DC SELV production	N/A

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

7.3.3	Type of battery and mode of insertion when applicable is marked:	No battery provided.	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 by inadequately trained personnel would result in an unacceptable RISK (e.g., excessive temperatures, fire or explosion):		N/A
	An identifying marking also provided referring to instructions in ACCOMPANYING DOCUMENTS:		N/A
7.3.4	Fuses, replaceable THERMAL CUT-OUTS and OVER-CURRENT RELEASES, accessible by use of a TOOL, marked by type and full rating at the component or by reference to ACCOMPANYING DOCUMENTS	Compoent, to be evaluated in the end application.	N/A
	Type:	-	-
	Voltage (V) and Current (A) rating		-
	Operating speed (s) and Breaking capacity:	-	-
7.3.5	PROTECTIVE EARTH TERMINAL marked with symbol 6 of Table D.1 (IEC 60417-5019, DB: 2002-10), except for the PROTECTIVE EARTH TERMINAL in an APPLIANCE INLET according to IEC 60320-1	No PE Terminal	N/A
	Markings on or adjacent to PROTECTIVE EARTH TERMINALS not applied to parts requiring removal to make the connection, and remained visible after connection made		N/A
7.3.6	Symbol 7 of Table D.1 (IEC 60417-5017, DB: 2002 -10) marked on FUNCTIONAL EARTH TERMINALS		N/A
7.3.7	Terminals for supply conductors marked adjacent to terminals, except when no HAZARD would result when interchanging connections		N/A
	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 (Code in IEC 60445)		N/A

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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict
	Marking for connection to a 3-phase supply, if necessary, complies with IEC 60445	DC	N/A
	Markings on or adjacent to electrical connection points not applied to parts requiring removal to make connection, and remained visible after connection made		N/A
7.3.8	For supply connections, use wiring materials suitable for at least X °C (where X > than max temperature measured in terminal box or wiring compartment under NORMAL USE), or equivalent, marked at the point of supply connections	To be evaluated in the end application.	N/A
	Statement not applied to parts requiring removal to make the connection, and CLEARLY LEGIBLE after connections made		N/A
7.4	Marking of controls and instruments		N/A
7.4.1	The "on" & "off" positions of switch to control power to ME EQUIPMENT or its parts, including mains switch, marked with symbols 12 and 13 of Table D.1 (IEC 60417-5007, DB: 2002-10, and IEC 60417-5008, DB: 2002-10), or	Control device not provided in the product. The application of this clause should be evaluated as part of the end application.	N/A
	- indicated by an adjacent indicator light, or		N/A
	- indicated by other unambiguous means		N/A
	The "on/off" positions of push button switch with bistable positions marked with symbol 14 of Table D.1 (IEC 60417-5010 DB: 2002-10), and		N/A
	- status indicated by adjacent indicator light		N/A
	- status indicated by other unambiguous means		N/A
	The "on/off" positions of push button switch with momentary on position marked with symbol 15 of Table D.1 (symbol 60417-5011 DB: 2002-10), or		N/A
	- status indicated by adjacent indicator light		N/A
	- status indicated by other unambiguous means		N/A
7.4.2	Different positions of control devices/switches indicated by figures, letters, or other visual means	To be considered in the end application.	N/A
	Controls provided with an associated indicating device when change of setting of a control could result in an unacceptable RISK to PATIENT in NORMAL USE, or		N/A
	- 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		N/A

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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict
	ISO 31 except the base quantities listed in Table 1 expressed in the indicated units		
	ISO 1000 applied for application of SI units, their multiples, and certain other units		N/A
	All Markings in Sub-clause 7.4 complied with tests and criteria of 7.1.2 and 7.1.3		N/A
7.5	Safety signs		N/A
	Markings used to convey a warning, prohibition or mandatory action mitigating a RISK not obvious to OPERATOR are safety signs from ISO 7010	To be considered in the end application.	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
7.6	Symbols		Pass
7.6.1	Meanings of symbols used for marking described in instructions for use:	To be evaluated in the end application.	N/A
7.6.2	Symbols required by this standard conform to IEC or ISO publication referenced	Complied with table D.1	Pass
7.6.3	Symbols used for controls and performance conform to the IEC or ISO publication where symbols are defined, as applicable	No such function.	N/A
7.7	Colours of the insulation of conductors		Pass
7.7.1	PROTECTIVE EARTH CONDUCTOR identified by green and yellow insulation		Pass
7.7.2	Insulation on conductors inside ME EQUIPMENT forming PROTECTIVE EARTH CONNECTIONS identified by green and yellow at least at terminations	To be considered in the end application.	N/A
7.7.3	Green and yellow insulation identify only following conductors:		Pass
	- PROTECTIVE EARTH CONDUCTORS		N/A
	- conductors specified in 7.7.2		N/A
	- POTENTIAL EQUALIZATION CONDUCTORS	No such construction.	N/A
	- FUNCTIONAL EARTH CONDUCTORS	No such construction.	N/A

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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict
7.7.4	Neutral conductors of POWER SUPPLY CORDS are "light blue" specified in IEC 60227-1 or IEC 60245-1	To be considered in end application.	N/A
7.7.5	Colours of conductors in POWER SUPPLY CORDS in accordance with IEC 60227-1 or IEC 60245-1	To be considered in end application.	N/A
7.8	Indicator lights and controls		N/A
7.8.1	Red indicator lights mean: Warning (i.e., immediate response by OPERATOR required)	Indicator light is only for it's function purpose but not related to safety.	N/A
	Yellow indicator lights mean: Caution (i.e., prompt response by OPERATOR required)		N/A
	Green indicator lights mean: Ready for use		N/A
	Other colours, if used: Meaning other than red, yellow, or green (colour, meaning):		N/A
7.8.2	Red used only for emergency control	No such function.	N/A
7.9	ACCOMPANYING DOCUMENTS		N/A
7.9.1	ME EQUIPMENT accompanied by documents containing at least instructions for use, and a technical description	Recognized component - To be evaluated in end product.	N/A
	ACCOMPANYING DOCUMENTS identify ME EQUIPMENT by the following, as applicable:		N/A
	- Name or trade-Name of MANUFACTURER and an address the RESPONSIBLE ORGANIZATION can be referred to:		N/A
	- MODEL or TYPE REFERENCE:		N/A
	When ACCOMPANYING DOCUMENTS provided electronically (e.g., on CDROM), RISK MANAGEMENT PROCESS includes instructions as to what is required in hard copy or as markings on ME EQUIPMENT (for emergency operation)		N/A
	ACCOMPANYING DOCUMENTS specify special skills, training, and knowledge required of OPERATOR or RESPONSIBLE ORGANIZATION and environmental restrictions on locations of use		N/A
	ACCOMPANYING DOCUMENTS written at a level consistent with education, training, and other needs of individuals for whom they are intended		N/A
7.9.2	Instructions for use include the required information		N/A
7.9.2.1	- intended use of ME EQUIPMENT,		N/A
	- frequently used functions, and		N/A

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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict
			<u>, </u>
	- known contraindication(s) to use of ME EQUIPMENT		N/A
	Classifications as in Clause 6, all markings per Clause 7.2, and explanation of safety signs and symbols marked on ME EQUIPMENT		N/A
	Instructions for use are in a language acceptable to the intended operator		N/A
7.9.2.2	Instructions for use include all warning and safety notices		N/A
	Warning statement for CLASS I ME EQUIPMENT indicating: "WARNING: To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth"		N/A
	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 indicating, "connecting electrical equipment to MSO effectively leads to creating an ME SYSTEM, and can result in a reduced level of safety"		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 indicating "power supply is specified as a part of ME EQUIPMENT or combination is specified as a ME SYSTEM"		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
	Warning to remove primary batteries when ME EQUIPMENT is not likely to be used for some time when leakage from battery would result in an unacceptable RISK:		N/A
	Specifications of replaceable INTERNAL ELECTRICAL POWER SOURCE when provided.:		N/A
	Warning indicating ME EQUIPMENT must be		N/A

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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict

	connected to an appropriate power source when loss of power source would result in an unacceptable RISK	
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 when such exposure can constitute an unacceptable RISK	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
7.9.2.7	Instructions provided indicating not to position ME EQUIPMENT to make it difficult to operate the disconnection device when an APPLIANCE COUPLER or separable plug is used as isolation means to meet 8.11.1 a)	N/A
7.9.2.8	Necessary information provided for OPERATOR to bring ME EQUIPMENT into operation including initial control settings, and connection to or positioning of PATIENT prior to use of ME EQUIPMENT, its parts, or ACCESSORIES	N/A
7.9.2.9	Information provided to operate ME EQUIPMENT including explanation of controls, displays and signals, sequence of operation, connection of detachable parts or ACCESSORIES, replacement of material consumed during operation	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

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IEC 60601					
Clause	Requirement + Test	Result - Remark	Verdict		
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 (e.g. part number, RATED VOLTAGE, max or min power, protection class, intermittent or continuous service)		N/A		
7.9.2.15	RISKS associated with disposal of waste products, residues, etc., and of ME EQUIPMENT and ACCESSORIES at the end of their EXPECTED SERVICE LIFE are identified, and instructions provided on minimizing these RISKS		N/A		
7.9.2.16	Instructions for use include information specified in 7.9.3 or identify where it can be found (e.g. in a service manual)		N/A		
7.9.3	Technical description		N/A		
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 the following:		N/A		
	- information as in clause 7.2		N/A		

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	IEC 60601		1
Clause	Requirement + Test	esult - Remark	Verdict
	- permissible environmental conditions of use including conditions for transport and storage		N/A
	- all characteristics of ME EQUIPMENT including range(s), accuracy, and precision of displayed values or where they can be found		N/A
	- special installation requirements such as max. permissible apparent impedance of supply MAINS		N/A
	- permissible range of values of inlet pressure and flow, and chemical composition of cooling liquid used for cooling		N/A
	- a description of means of isolating ME EQUIPMENT from supply MAINS, when such means not in ME EQUIPMENT		N/A
	- a description of means for checking oil level in partially sealed oil filled ME EQUIPMENT or its parts when applicable		N/A
	- a warning statement addressing HAZARDS that can result from unauthorized modification of ME EQUIPMENT according to following examples		N/A
	WARNING: No modification of this equipment is allowed		N/A
	WARNING: Do not modify this equipment without authorization of the manufacturer		N/A
	WARNING: If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of equipment		N/A
	Technical description separable from instructions for us information, as follows	se contains required	N/A
	- information as in clause 7.2		N/A
	- all applicable classifications in Clause 6, warning and safety notices, and explanation of safety signs marked on ME EQUIPMENT		N/A
	- a brief description of ME EQUIPMENT, how it functions, and its significant physical and performance characteristics		N/A
	MANUFACTURER'S optional requirements for minimum qualifications of SERVICE PERSONNEL documented in technical description		N/A
.9.3.2	The technical description contains the following require	ed information	N/A
	-TYPE and full rating of fuses used in supply MAINS external to PERMANENTLY INSTALLED		N/A

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	IEC 60601				
Clause	Requirement + Test	Result - Remark	Verdict		
	ME EQUIPMENT, when TYPE and rating of fuses are not apparent from information on RATED current and mode of operation of ME EQUIPMENT				
	- a statement for ME EQUIPMENT with a non- DETACHABLE POWER SUPPLY CORD if POWER SUPPLY CORD is replaceable by SERVICE PERSONNEL, and if so, instructions for correct connection and anchoring to ensure compliance with 8.11.3		N/A		
	- instructions for correct replacement of interchangeable or DETACHABLE parts specified by MANUFACTURER as replaceable by SERVICE PERSONNEL, and		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		N/A		
7.9.3.4	Means used to comply with requirements of 8.11.1 clearly identified in technical description		N/A		

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	IEC	60601	
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 product is a charger, the evaluation of the Accessible Part and Applied Parts will be evaluated during final installation.	N/A
	NORMAL CONDITION considered as simultaneous occurrence of situations identified in 8.1a)		Pass
	SINGLE FAULT CONDITION considered to include the occurrences as specified in Clause 8.1b):	Recognized component without risk management process. S.F.C. were conducted base on the circuit evaluation, and complied by inspecting the evaluation. Additional tests should be considered base on RM evaluation in end product.	Pass
	ACCESSIBLE PARTS determined according to 5.9		Pass
	LEAKAGE CURRENTS measured according to 8.7		Pass
8.2	Requirements related to power sources		N/A
8.2.1	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	Recognized component - To be considered in end product.	N/A
	Tests performed with ME EQUIPMENT connected to separate power supply when one specified		N/A
	When a generic separate power supply specified, specification in ACCOMPANYING DOCUMENTS examined		N/A
8.2.2	No HAZARDOUS SITUATION other than absence of ESSENTIAL PERFORMANCE developed when a connection with wrong polarity made for ME EQUIPMENT from an external d.c. source	To be considered in end product.	N/A
	ME EQUIPMENT connected with correct polarity did not present an unacceptable RISK		N/A
	Protective devices that can be reset by anyone without a TOOL restore correct operation on reset		N/A
8.3	Classification of APPLIED PARTS		N/A
	a) APPLIED PART specified in ACCOMPANYING DOCUMENTS as suitable for DIRECT CARDIAC	No applied part. To be considered in end product.	N/A

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IEC 60601					
Clause	Requirement + Test		Result - Remark	Verdict	

	APPLICATION is TYPE CF		
	b) An APPLIED PART provided with a PATIENT CONNECTION intended to deliver electrical energy or an electrophysiological signal to or from PATIENT is TYPE BF or CF APPLIED PART		N/A
	c) An APPLIED PART not covered by a) or b) is a TYPE B, BF, or CF		N/A
	d) Requirements of a TYPE B APPLIED PART applied to a part in 4.6 to be subjected to requirements for an APPLIED PART (except marking)		N/A
	Requirements for a TYPE BF or CF APPLIED PART applied as in RISK MANAGEMENT PROCESS		N/A
8.4	Limitation of voltage, current or energy		Pass
8.4.1	PATIENT CONNECTIONS intended to deliver Current		N/A
	Limits in 8.4.2 not applied to currents intended to flow through body of PATIENT to produce a physiological effect during NORMAL USE	To be considered in end product.	N/A
8.4.2	ACCESSIBLE PARTS including APPLIED PARTS		Pass
	a) Currents from, to, or between PATIENT CONNECTIONS did not exceed limits for PATIENT LEAKAGE CURRENT and PATIENT AUXILIARY CURRENT per Tables 3 and 4 when measured according to Clause 8.7.4	No accessible part and no applied part.	N/A
	b) LEAKAGE CURRENTS from, to, or between ACCESSIBLE PARTS did not exceed limits for TOUCH CURRENT in Cl. 8.7.3 c) when measured per Clause 8.7.4 (mA):	See table 8.7	Pass
	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	Supply only	N/A
	- accessible contacts of connectors		N/A
	- contacts of fuseholders accessible during replacement of fuse		N/A
	- contacts of lampholders accessible after removal of lamp		N/A
	- parts inside an ACCESS COVER that can be opened without a TOOL, or where a TOOL is needed but the instructions for use instruct an		N/A

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	OPERATOR other than SERVICE PERSONNEL to open the relevant ACCESS COVER				
	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.)		N/A		
	Limit of 60 V d.c. applied with no more than 10% peak-to-peak ripple, and when ripple larger than specified value, 42.4 V peak limit applied (V d.c.).:		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 up to 2 V (VA or J):		N/A		
	LEAKAGE CURRENT limits referred to in 8.4.2 b) applied when voltages higher than limits in 8.4.2 c) were present (mA)		N/A		
	d) Voltage and energy limits specified in c) above also applied to the following:	Recognized power – To be evaluated in end product.	N/A		
	- internal parts, other than contacts of plugs, connectors and socket-outlets, touchable by test pin in Fig 8 inserted through an opening in an ENCLOSURE; and		N/A		
	- internal parts touchable by a metal test rod with a diameter of 4 mm and a length of 100 mm, inserted through any opening on top of ENCLOSURE or through any opening provided for adjustment of pre-set controls 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		
	Test rod freely and vertically suspended through openings on top of ENCLOSURE		N/A		
	e) Devices used to de-energize parts when an ACCESS COVER opened without a TOOL gives access to parts at voltages above levels permitted by this Clause comply with 8.11.1 for mains isolating switches and remain effective in SINGLE FAULT CONDITION	No such construction.	N/A		
	A TOOL is required when it is possible to prevent		N/A		

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	the devices from operating		
8.4.3	Worst case voltage between pins of plug and between either supply pin and ENCLOSURE did not exceed 60 V one s after disconnecting the plug of ME EQUIPMENT or its parts (V)	Secondary charger only.	N/A
	A triggering circuit used to ensure disconnection occurred at peak of supply voltage waveform		N/A
	When voltage exceeded 60 V, calculated or measured stored charge didn't exceed 45 uC:	Voltage did not exceed 60V.	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 45uC:	To be evaluated in end product.	N/A
	A device manually discharging capacitors used when automatic discharging was not possible and ACCESS COVERS could be removed only with aid of a TOOL		N/A
	Capacitor(s) and connected circuitry marked with symbol 24 of Table D.1 (IEC 60417-5036, DB: 2002-10), and manual discharging device specified in technical description:		N/A
8.5	Separation of parts		Pass
8.5.1	MEANS OF PROTECTION (MOP)		Pass
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	No Applied Part and this is a Secondary charger.	N/A
	Each MEANS OF PROTECTION categorized as a MEANS OF PATIENT PROTECTION or a MEANS OF OPERATOR PROTECTION, taking into account Clause 4.6, and flow chart in Fig A.12		Pass
	Varnishing, enameling, oxidation, and similar protective finishes and coatings with sealing compounds replasticizing at temperatures expected during operation and sterilization disregarded as MEANS OF PROTECTION	No such situation.	N/A
	Coatings and other insulation intended as a MEANS OF PROTECTION complying with IEC 60950-1:2001 considered acceptable as a MEANS OF OPERATOR PROTECTION but not automatically as a MEANS OF PATIENT		N/A
	PROTECTION		

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	consideration for MEANS OF PATIENT PROTECTION	and MOOP provided by client's declaration. The acceptability of risk of the charger to be determined as part of the end product.	
	Components and wiring forming a MEANS OF PROTECTION comply with 8.10		Pass
	Insulation, CREEPAGE, CLEARANCES, components or earth connections not complying with 8.5.1.2 and 8.5.1.3 not considered as MEANS OF PROTECTION, and failure of these parts regarded as NORMAL CONDITION	No such situation	N/A
8.5.1.2	MEANS OF PATIENT PROTECTION (MOPP)		N/A
	Solid insulation forming a MEANS OF PATIENT PROTECTION complied with dielectric strength test of Clause 8.8 at test voltage of Table 6		N/A
	CREEPAGE and CLEARANCES forming a MEANS OF PATIENT PROTECTION complied with Table 12		N/A
	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF PATIENT PROTECTION complied with Cl. 8.6		N/A
	A Y1 capacitor complying with IEC 60384-14 and having passed dielectric strength test for two MEANS OF PATIENT PROTECTION considered equivalent to one MEANS OF PATIENT PROTECTION	MOOP	N/A
	Two capacitors used in series, each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance		Pass
	Voltage Total Working (V) and C Nominal (uF):	See TABLE: List of Critical Components	-
8.5.1.3	MEANS OF OPERATOR PROTECTION (MOOP)		Pass
	Solid insulation forming a MEANS OF OPERATOR PROTECTION complied with:		Pass
	- dielectric strength test of 8.8 at test voltage of Table 6; or	Evaluated for MOOP , SELV	N/A
	- requirements of IEC 60950-1 for INSULATION CO-ORDINATION		N/A
	CREEPAGE and CLEARANCES forming a MEANS OF OPERATOR PROTECTION complied with:		Pass

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	- limits of Tables 13 to 16 (inclusive); or		Pass
	- requirements of IEC 60950-1 for INSULATION CO-ORDINATION		N/A
	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF OPERATOR PROTECTION complied with Cl. 8.6, or	No PE	N/A
	- requirements and tests of IEC 60950-1 for protective earthing		N/A
	A Y2 capacitor complying with IEC 60384-14 and passing dielectric strength test for one MEANS OF OPERATOR PROTECTION considered equivalent to one MEANS OF OPERATOR PROTECTION:		N/A
	A Y1 capacitor complying with IEC 60384-14 and having passed dielectric strength test for two MEANS OF OPERATOR PROTECTION considered equivalent to two MEANS OF OPERATOR PROTECTION		N/A
	Two capacitors used in series each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance		Pass
	Voltage Total Working (V) and C Nominal (uF):	SELV input and SELV output , MOOP	-
	Points at which impedances of components, CREEPAGE, CLEARANCES, PROTECTIVE EARTH CONNECTIONS or insulation, prevent ACCESSIBLE PARTS from exceeding limits in 8.4 examined whether a failure at any of these points is to be regarded as a NORMAL or SINGLE FAULT CONDITION		N/A
	A MEANS OF PROTECTION protecting APPLIED PARTS, or parts identified by 4.6 as parts subject to the same requirements, considered MEANS OF PATIENT PROTECTION		N/A
	A MEANS OF PROTECTION protecting other parts considered MEANS OF OPERATOR PROTECTION:	MOOP protection	Pass
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 maximum MAINS VOLTAGE and complied with limit for PATIENT LEAKAGE CURRENT at 110 % of max. MAINS VOLTAGE	Supply only	N/A

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	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:	N/A
	Dielectric strength test conducted per 8.8.3:	N/A
	CREEPAGE and CLEARANCES measured per 8.9 and Tables 11 to 16 as applicable	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
3.5.2.2	PATIENT CONNECTIONS of a TYPE B APPLIED PART not PROTECTIVELY EARTHED are separated by one MEANS OF PATIENT PROTECTION from metal ACCESSIBLE PARTS not PROTECTIVELY EARTHED:	N/A
	- except when metal ACCESSIBLE PART is physically close to APPLIED PART and can be regarded as a part of APPLIED PART; and	N/A
	- RISK that metal accessible PART will make contact with a source of voltage or LEAKAGE current above permitted limits is acceptably low	N/A
	LEAKAGE CURRENT tests conducted per 8.7.4:	N/A
	Dielectric strength test conducted per 8.8.3:	N/A
	Relevant CREEPAGE and CLEARANCES measured per 8.9 and Tables 11 to 16 as applicable	N/A
	The RISK MANAGEMENT FILE reviewed	N/A
3.5.2.3	A connector on a PATIENT lead located at the end of the lead remote 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

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	- cannot be connected to EARTH or hazardous voltage while the PATIENT CONNECTIONS are in contact with PATIENT:	This clause will be evaluated during the end application.	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 making contact with 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, except when RISK MANAGEMENT PROCESS indicated no unacceptable RISK existed from contact with objects other than a mains:		N/A
3.5.3	MAXIMUM MAINS VOLTAGE		Pass
	- MAXIMUM MAINS voltage determined to be the highest RATED supply voltage for single-phase or d.c. supply MAINS powered ME EQUIPMENT, as well as INTERNALLY powered ME EQUIPMENT with a means of connection to a supply MAINS (V)	19V DC	Pass
	When less than 100 V, MAXIMUM MAINS VOLTAGE was 250 V		N/A
	- MAXIMUM MAINS voltage was the highest RATED phase to neutral supply voltage for polyphase ME EQUIPMENT (V)	Not poly-phase ME equipment.	N/A
	- for other INTERNALLY POWERED ME EQUIPMENT, maximum mains voltage was 250 V	Not internally powered ME equipment.	N/A
3.5.4	WORKING VOLTAGE		Pass
	- Input supply voltage to ME EQUIPMENT was RATED voltage or voltage within RATED range resulting in highest measured value (V):	19V DC	Pass
	- 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)	DC	Pass
	- WORKING voltage for each means of	SELV	N/A

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	PROTECTION forming DOUBLE insulation was voltage DOUBLE insulation, as a whole, subjected to (V)		
	- Intentional or accidental earthing of PATIENT regarded as a NORMAL CONDITION for WORKING voltage involving a PATIENT connection not connected to EARTH	This clause will be evaluated during the end application.	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)	No patient connections.	N/A
	- WORKING voltage for DEFIBRILLATION-PROOF APPLIED parts determined disregarding possible presence of DEFIBRILLATION voltages	No Defibrillation-proof applied parts.	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)	No motor provided.	N/A
3.5.5	DEFIBRILLATION-PROOF APPLIED PARTS	To be evaluated in the end application.	N/A
3.5.5.1	Classification "DEFIBRILLATION-PROOF APPLIED PART" applied to one APPLIED PART in its entirety, but not separate functions of same APPLIED PART		N/A
	Possibility of an OPERATOR receiving a shock from such parts taken into consideration in RISK MANAGEMENT PROCESS		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:		N/A
	b) ME EQUIPMENT complied with relevant requirements of this standard, providing BASIC SAFETY and ESSENTIAL PERFORMANCE following exposure to defibrillation voltage, and recovery time stated in ACCOMPANYING DOCUMENTS		N/A
8.5.5.2	Means provided to limit energy delivered to a 100 Ohm load to at least 90% of energy delivered to this load with ME EQUIPMENT disconnected:		N/A

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8.6	Protective and functional earthing and potential equ	alization of ME EQUIPMENT	N/A
8.6.1	Requirements of 8.6.2 to 8.6.8 applied	To be evaluated in end product.	N/A
	Parts complying with IEC 60950-1 for protective earthing and serving as MEANS OF OPERATOR PROTECTION but not PATIENT PROTECTION exempted from requirements of 8.6.2 to 8.6.8		N/A
8.6.2	PROTECTIVE EARTH TERMINAL is suitable for connection to an external protective earthing system by a PROTECTIVE EARTH CONDUCTOR in a POWER SUPPLY CORD and a suitable plug or by a FIXED PROTECTIVE EARTH CONDUCTOR		N/A
	Clamping means of PROTECTIVE EARTH TERMINAL of ME EQUIPMENT for FIXED supply conductors or POWER SUPPLY CORDS comply with 8.11.4.3, and cannot be loosened without TOOL		N/A
	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		N/A
	PROTECTIVE EARTH TERMINAL not used for mechanical connection between different parts of ME EQUIPMENT or securing components not related to protective or functional earthing		N/A
8.6.3	PROTECTIVE EARTH CONNECTION not used for a moving part, except when MANUFACTURER demonstrated in RISK MANAGEMENT FILE connection will remain reliable during EXPECTED SERVICE LIFE:		N/A
8.6.4	 a) PROTECTIVE EARTH CONNECTIONS carried fault currents reliably and without excessive voltage drop 		N/A
	b) Allowable TOUCH CURRENT and PATIENT LEAKAGE CURRENT in SINGLE FAULT CONDITION were not exceeded, when impedance of PROTECTIVE EARTH CONNECTIONS exceeded values in 8.6.4 a) and Table 8.6.4, due to limited current capability of relevant circuits:	See appended Table 8.6.4	N/A
8.6.5	Surface coatings		N/A
	Poorly conducting surface coatings on conductive	No such coating.	N/A

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	elements removed at the point of contact		
	Coating not removed when requirements for impedance and current-carrying capacity met		N/A
8.6.6	Plugs and sockets		N/A
	PROTECTIVE EARTH CONNECTION where connection between SUPPLY MAINS and ME EQUIPMENT or between separate parts of ME EQUIPMENT made via a plug and socket was made before and interrupted after supply connections	To be evaluated in end product.	N/A
	- APPLIED also where interchangeable parts are PROTECTIVELY EARTHED		N/A
8.6.7	Terminal for connection of a POTENTIAL EQUALIZ	ATION CONDUCTOR	N/A
	- terminal is accessible to OPERATOR with ME EQUIPMENT in any position of NORMAL use	No potential equalization conductor.	N/A
	- RISK of accidental disconnection minimized 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 (i.e., symbol IEC 60417-5021)		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	No FE. To be evaluated in the end application.	N/A
8.6.9	Class II ME EQUIPMENT		Pass
	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	No FE. To be evaluated in the end application	N/A
	Two MEANS OF PROTECTION provided by insulation of internal screens and all internal wiring connected to them with a related explanation in technical description		N/A

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8.7	LEAKAGE CURRENTS and PATIENT AUXILIARY	CURRENTS	Pass
8.7.1	a) Electrical isolation providing protection against electric shock limits currents to values in 8.7.3:	See appended Table 8.7	Pass
	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 Table 8.7	Pass
8.7.2	Allowable values specified in 8.7.3 applied under SINGLE FAULT CONDITIONS of 8.1 b), except		Pass
	- where insulation used in conjunction with a PROTECTIVE EARTH CONNECTION, insulation short circuited only under conditions in 8.6.4 b)		N/A
	 the only single FAULT CONDITION for EARTH LEAKAGE current was interruption of one supply conductor at a time 		N/A
	- LEAKAGE CURRENTS and PATIENT AUXILIARY current not measured in single FAULT CONDITION of short circuiting of one constituent PART of DOUBLE insulation	No applied part.	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		Pass
8.7.3	Allowable Values		
	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	Pass
	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
	c) TOUCH CURRENT did not exceed 100 µA in NORMAL CONDITION and 500 µA in SINGLE FAULT CONDITION (ITNC, ITSFC):	See appended Table 8.7	Pass
	d) EARTH LEAKAGE CURRENT did not exceed 5 mA in NORMAL CONDITION and 10 mA in SINGLE FAULT CONDITION (IENC, IESFC)		N/A
	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:		N/A

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	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:		N/A
8.7.4	LEAKAGE and PATIENT AUXILIARY CURRENTS measurements:	See appended Table 8.7	Pass
8.8	Insulation		N/A
8.8.1	Insulation relied on as MEANS OF PROTECTION, including REINFORCED INSULATION and insulation between parts of opposite polarity of MAINS PART on SUPPLY MAINS side of mains fuse or OVER-CURRENT RELEASE		N/A
	Insulation exempted from test (complies with clause 4.8)		N/A
	Insulation forming MEANS OF OPERATOR PROTECTION and complying with IEC 60950-1 for INSULATION CO-ORDINATION not tested as in 8.8		Pass
8.8.2	Distance through solid insulation or use of thin sheet material		
	Solid insulation forming SUPPLEMENTARY or REINFORCED INSULATION for a PEAK WORKING VOLTAGE greater than 71 V provided with:		N/A
	a) 0.4 mm, min, distance through insulation, or	No such construction.	N/A
	b) does not form part of an ENCLOSURE and not subject to handling or abrasion during NORMAL USE, and comprised of:		N/A
	- at least two layers of material, each passed the appropriate dielectric strength test, or	See appended Table 8.8.3.	N/A
	- 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	No such construction.	N/A
	Dielectric strength test for one or two layers was same as for two MEANS OF PROTECTION for REINFORCED INSULATION		N/A
	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

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	c) Wire with solid insulation, other than solvent based enamel, complying with a)	No such construction.	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		N/A
	- 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		N/A
	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		N/A
	Finished component complied with routine dielectric strength tests of 8.8.3:		N/A
	Tests of Annex L not repeated since material data sheets confirm compliance:		N/A
.8.3	Dielectric Strength		
	Solid insulating materials with a safety function withstood dielectric strength test voltages:	See appended Table 8.8.3	N/A
.8.4	Insulation other than wire insulation		N/A
3.8.4.1	Resistance to heat retained by all insulation and insulating partition walls during EXPECTED SERVICE LIFE of ME EQUIPMENT		N/A
	ME EQUIPMENT and RISK MANAGEMENT FILE examined in conjunction with resistance to moisture, dielectric strength, and mechanical strength tests:	Component evaluation, the acceptability of risk of the power supply to be determined as part of the end product.	N/A
	Satisfactory evidence of compliance provided by manufacturer for resistance to heat:		N/A

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	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 apparatus of Fig 21	To be evaluated in end product.	N/A
	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	N/A
	Test not performed on parts of ceramic material, insulating parts of commutators, brush-caps, and similar, and on coil formers not used as REINFORCED INSULATION	No such construction.	N/A
8.8.4.2	Resistance to environmental stress		N/A
	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	This clause will be evaluated in end application.	N/A
	Ceramic and similar materials not tightly sintered, and beads alone not used as SUPPLEMENTARY or REINFORCED INSULATION	No such construction.	N/A
	Insulating material with embedded heating conductors considered as one MEANS OF PROTECTION but not two MEANS OF PROTECTION	No such construction.	N/A
	Parts of natural latex rubber aged by suspending samples freely in an oxygen cylinder containing commercial oxygen to a pressure of 2.1 MPa ± 70 kPa, with an effective capacity of at least 10 times volume of samples	No natural latex rubber provided.	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		Pass
8.9.1.1	CREEPAGE DISTANCES and AIR CLEARANCES are to values in Tables 11 to 16 (inclusive), except as specified in Clauses 8.9.1.2 to 8.9.1.15		Pass
8.9.1.2	Tables 11 to 16 (inclusive) not applied to	No such construction.	N/A

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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict
	CREEPAGE and CLEARANCES forming MEANS OF OPERATOR PROTECTION per IEC 60950-1 for INSULATION CO-ORDINATION and used under conditions compliance was tested		
8.9.1.3	Specified min CLEARANCE applied as min CREEPAGE for CREEPAGE DISTANCES across glass, mica, ceramic and other inorganic insulating materials with similar tracking characteristics	No such material.	N/A
8.9.1.4	When min CREEPAGE derived from Tables 11 to 16 (inclusive) was less than min applicable CLEARANCE, value of min CLEARANCE applied as min CREEPAGE DISTANCE		Pass
8.9.1.5	ME EQUIPMENT RATED to operate at an altitude of 2000 m		N/A
	ME EQUIPMENT RATED to operate at an altitude specified by MANUFACTURER (m)	4000m	Pass
	Operating altitude corresponding to actual air pressure for ME EQUIPMENT intended for pressurized environments (e.g., aircraft) used to determine multiplication factor from Table 8, and AIR CLEARANCE was multiplied by this factor		N/A
	CREEPAGE DISTANCES not subjected to multiplication factors, but were at least as large as the resulting value for AIR CLEARANCE		Pass
8.9.1.6	When WORKING VOLTAGE was between those in Tables 11 to 16 (inclusive), CREEPAGE and CLEARANCES calculated as follows:		Pass
	- CREEPAGE DISTANCES determined by linear interpolation between the nearest two values, and the calculated spacing rounded off to the next higher 0.1 mm increment (mm):	See Insulation Diagram and Table: to insulation diagram	Pass
	- CLEARANCES for PEAK WORKING VOLTAGES above 2800 V peak or d.c. determined by linear interpolation between the nearest two values, and the calculated spacing rounded off to the next higher 0.1 mm increment (mm):	SELV	N/A
	- for AIR CLEARANCES corresponding to PEAK WORKING VOLTAGE up to 2800 V peak or d.c., the higher of the two values applied	SELV	N/A
8.9.1.7	Material groups classified in accordance with Table 9 (Material Group):	IIIb	Pass
	Material group evaluated using 50 drops of solution A based on test data for material according to IEC 60112		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	Material of unknown group considered IIIb	IIIb	Pass
8.9.1.8	- Pollution degree 1: Micro-environment sealed to exclude dust and moisture		N/A
	- Pollution degree 2: Micro-environment with non- conductive pollution, except occasional conductivity caused by condensation		Pass
	- Pollution degree 3: Micro-environment subject to conductive pollution, or dry non-conductive pollution that could become conductive due to expected condensation		N/A
	- Pollution degree 4: Micro-environment where continuous conductivity occurs due to conductive dust, rain, or other wet conditions		N/A
	Pollution degree 4 not used for insulation providing a MEANS OF PROTECTION		N/A
	Where insulation between MAINS PART and earth might be compromised, measures such as maintenance ensure that micro-environment is mitigated to a lower pollution degree		N/A
8.9.1.9	Overvoltage category classification; value of MAINS TRANSIENT VOLTAGE determined from overvoltage category per IEC60664-1 and NOMINAL a.c. MAINS VOLTAGE using Table 10	Overvoltage category II	Pass
	V MT Peak (V):	DC	-
	V MN r.m.s. (V)		-
8.9.1.10	AIR CLEARANCE for MAINS PARTS (operating on RATED MAINS VOLTAGES up to 300 V) were values for r.m.s. or d.c. RATED MAINS VOLTAGE in Table 13 plus additional CLEARANCE in Table 14 for PEAK WORKING VOLTAGE		N/A
3.9.1.11	SUPPLY MAINS overvoltage category II applied according to IEC 60664-1	overvoltage category I	N/A
	For ME EQUIPMENT intended for overvoltage category III, Tables 13 to 15 (inclusive) not used for clearance, instead values in the next MAINS TRANSIENT VOLTAGE column upwards used		N/A
	When PATIENT protection (Table 12) is required for use of ME EQUIPMENT on overvoltage category III SUPPLY MAINS, guidance provided on values required in the rationale for CI. 8.9 used		N/A
8.9.1.12	A SECONDARY CIRCUIT derived from a SUPPLY MAINS, normally, considered to be overvoltage category I according to IEC 60664-1 when the		N/A

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Clause	Requirement + Test		Result - Remark	Verdict

	MAINS PART is overvoltage category II (Table 15)		
	Table 15 applied to earthed SECONDARY CIRCUIT or INTERNALLY POWERED ME EQUIPMENT		N/A
	Requirements for primary circuits in Tables 13 and 14 used for an unearthed SECONDARY CIRCUIT derived from a SUPPLY MAINS		N/A
	Table 15 applied when SECONDARY CIRCUIT was separated from MAINS PART by a functionally earthed or PROTECTIVELY EARTHED metal screen or transients in SECONDARY CIRCUIT were below the levels expected for overvoltage category I		N/A
	Table 15 column for circuits not subject to transient overvoltages applied to:		N/A
	- d.c. SECONDARY CIRCUITS reliably connected to earth and have capacitive filtering limiting peak-to-peak ripple to 10 % of d.c. voltage, and		N/A
	- CIRCUITS in INTERNALLY powered ME EQUIPMENT		N/A
8.9.1.13	For PEAK WORKING VOLTAGES above 1400 V peak or d.c. Table 15 not applied since all the following conditions were met:	19V DC Input , 14.6V DC Output	N/A
	- CLEARANCE was at least 5 mm		N/A
	- insulation complied with dielectric strength test of 8.8.3 using an a.c. test voltage with an r.m.s. value equal to 1.06 times PEAK WORKING VOLTAGE, or		N/A
	- a d.c. test voltage equal to peak value of a.c. test voltage with an r.m.s. value equal to 1.06 times PEAK WORKING VOLTAGE, and		N/A
	- CLEARANCE path was partly or entirely through AIR or along the surface of an insulating material of material group I		N/A
	Dielectric strength test conducted only across part(s) of the path that are through air when CLEARANCE path was also partly along surface of a non- group I material		N/A
3.9.1.14	Minimum CREEPAGE DISTANCES for two MEANS OF OPERATOR PROTECTION obtained by doubling values in Table 16 for one MEANS OF OPERATOR PROTECTION		Pass
3.9.1.15	CREEPAGE DISTANCES and AIR CLEARANCES	Component evaluation.	N/A

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Clause	Requirement + Test		Result - Remark	Verdict

	for DEFIBRILLATION-PROOF APPLIED PARTS are 4 mm or more to meet 8.5.5.1	Applied part to be considered in the end application.	
8.9.2	a) Short circuiting of each single one of CREEPAGE DISTANCES and CLEARANCES in turn did not result in a HAZARDOUS SITUATION for insulation in MAINS PART between parts of opposite polarity, therefore, min CREEPAGE and CLEARANCES not applied		N/A
	b) Contribution to CREEPAGE DISTANCES of grooves or air gaps less than 1 mm wide limited to widths		N/A
	c) Relative positioning of CLEARANCE providing a MEANS OF PROTECTION is such that the relevant parts are rigid and located by molding, or there is no reduction of a distance below specified value by deformation or movement of parts		N/A
	Normal or likely limited movements of relevant parts taken into consideration when calculating minimum AIR CLEARANCE		N/A
8.9.3	Spaces filled by insulating compound		N/A
8.9.3.1	Only solid insulation requirements applied where distances between conductive parts filled with insulating compound were such that CLEARANCES and CREEPAGE DISTANCES don't exist	No insulating compound provided.	N/A
	Thermal cycling, humidity preconditioning, and dielectric strength tests in 8.9.3.2 and 8.9.3.4 or 8.9.3.3 and 8.9.3.4 conducted		N/A
8.9.3.2	For insulating compound forming solid insulation between conductive parts, a single sample subjected to thermal cycling PROCEDURE of 8.9.3.4 followed by humidity preconditioning per 5.7 (for 48 hours), followed by dielectric strength test (clause 8.8.3), test voltage multiplied by 1.6:		N/A
	Cracks or voids in insulating compound affecting homogeneity of material didn't occur		N/A
8.9.3.3	Where insulating compound forms a cemented joint with other insulating parts, three samples tested for reliability of joint		N/A
	A winding of solvent-based enameled 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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	PROCEDURE of 8.9.3.4, and immediately after the last period at highest temperature during thermal cycling, it was subjected to dielectric strength test of 8.8.3 except at 1.6 times the test voltage:		
	- The other two samples subjected to humidity preconditioning of 5.7, except for 48 hours only followed by a dielectric strength test of 8.8.3 at 1.6 times the test voltage		N/A
8.9.3.4	One sample containing the cemented joint subjected to a sequence of temperature cycling tests for 10 times:		N/A
8.10	Components and wiring		Pass
8.10.1	Components of ME EQUIPMENT likely to result in an unacceptable RISK by their movements mounted securely as indicated in RISK MANAGEMENT FILE:	Components were secured, however end product to determine acceptability of risk.	N/A
8.10.2	Conductors and connectors of ME EQUIPMENT adequately secured or insulated to prevent accidental detachment in a HAZARDOUS SITUATION	Components were secured, however end product to determine acceptability of risk.	N/A
	Conductors and connectors of ME EQUIPMENT when breaking free at their joint are not capable of touching circuit points resulting in a HAZARDOUS SITUATION as indicated in RISK MANAGEMENT FILE	Components were secured, however end product to determine acceptability of risk.	N/A
	Breaking free of one means of mechanical restraint considered a SINGLE FAULT CONDITION		Pass
	Stranded conductors are not solder-coated when secured by clamping means to prevent HAZARDOUS SITUATIONS due to poor contact		N/A
8.10.3	Flexible cords detachable without a TOOL used to interconnect different parts of ME EQUIPMENT provided with means for connection to comply with requirements for metal ACCESSIBLE PARTS of 8.4 when a connection is loosened or broken as shown by measurement or using test finger	No such components	N/A
8.10.4	Cord-connected HAND-HELD parts and cord-connected devices	ected foot-operated control	N/A
8.10.4.1	Control devices of ME EQUIPMENT and their connection cords contain only conductors and components operating at 42.4 V peak a.c., max, or 60 V d.c. in circuits isolated from MAINS PART by two MEANS OF PROTECTION	No Cord-connected HAND- HELD parts and cord connected foot-operated control devices.	N/A
	d.c. limit of 60 V applied to d.c. with no more than		N/A

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

	10 % peak-to-peak ripple		
	42.4 V peak limit applied when ripple exceeded 10 % peak-to-peak limit		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 cable to control device complied with 8.11.3 when breaking free or shorting between conductors could result in a HAZARDOUS SITUATION		N/A
	This requirement applied to other HAND-HELD parts when disturbance or breaking of one or more of connections could result in a HAZARDOUS SITUATION		N/A
8.10.5	Mechanical protection of wiring		N/A
	a) Internal cables and wiring adequately protected against contact with a moving part or from friction at sharp corners and edges where damage to insulation could result in a HAZARDOUS SITUATION	To be considered in the end application.	N/A
	b) Wiring, cord forms, or components are not likely to be damaged during assembly or during opening or closing of ACCESS COVERS where such damage could result in a HAZARDOUS SITUATION as shown by manual tests and RISK MANAGEMENT FILE		N/A
8.10.6	Guiding rollers of insulated conductors prevent bending of movable insulated conductors around a radius of less than five times the outer diameter of the lead concerned in NORMAL USE	No such construction.	N/A
8.10.7	a) Insulating sleeve that can only be removed by breaking or cutting, or secured at both ends, is used on internal wiring of when needed:	See description for critical components details.	Pass
	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	No such construction.	N/A
	c) Insulated conductors subject to temperatures > 70 °C in NORMAL USE provided with insulation of heat-resistant material when compliance is likely to be impaired due to deterioration of insulation:	No such construction.	N/A
8.11	MAINS PARTS, components and layout		Pass
8.11.1	a) ME EQUIPMENT provided with means of electrically isolating its circuits from SUPPLY MAINS simultaneously on all poles:	To be considered in the end application.	N/A

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Clause	Requirement + Test		Result - Remark	Verdict

PERMANENTLY INSTALLED ME EQUIPMENT	Not Permanently installed ME	N/A
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)	equipment.	
b) Means of isolation incorporated in ME EQUIPMENT, and external means described in technical description:		N/A
c) A SUPPLY MAINS switch used to comply with 8.11.1 a) complies with CREEPAGE and CLEARANCES in IEC 61058-1 for a MAINS TRANSIENT VOLTAGE of 4 kV	Not Permanently installed ME equipment.	N/A
d) A SUPPLY MAINS switch not incorporated in a POWER SUPPLY CORD or external flexible lead	Not Permanently installed ME equipment.	N/A
e) Direction of movement of actuator of a SUPPLY MAINS switch used to comply with 8.11.1 a) complies with IEC 60447	No actuator of a supply mains switch.	N/A
f) A suitable plug device such as an APPLIANCE COUPLER or a flexible cord with a MAINS PLUG used in non-PERMANENTLY INSTALLED ME EQUIPMENT to isolate it from SUPPLY MAINS considered to comply with 8.11.1 a)	Product is recognized component, the disconnecting method was unknown, to be evaluated in end product.	N/A
g) A fuse or a semiconductor device not used as an isolating means		Pass
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	To be considered in the end application.	N/A
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	To be considered in the end application.	N/A
A clear warning notice is marked on outside of ME EQUIPMENT to indicate it exceeds allowable touch voltage (symbol 10 of Table D.1 is insufficient)		N/A
For a part that could not be disconnected from supply by an external switch or a plug device accessible at all times, the required cover or		N/A
warning notice complied with this clause		

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Clause	Requirement + Test		Result - Remark	Verdict

		product.	
8.11.2	MULTIPLE SOCKET-OUTLETS integral with ME EQUIPMENT complied with 16.2 d), second dash; and 16.9.2	No multiple socket-outlets.	N/A
3.11.3	POWER SUPPLY CORDS		N/A
8.11.3.1	MAINS PLUG not fitted with more than one POWER SUPPLY CORD		N/A
3.11.3.2	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):		N/A
	Only polyvinyl chloride insulated POWER SUPPLY CORD with appropriate temperature rating used for ME EQUIPMENT having external metal parts with a temperature > 75 °C touchable by the cord in NORMAL USE		N/A
3.11.3.3	NOMINAL cross-sectional area of conductors of POWER SUPPLY CORDS of ME EQUIPMENT is not less than in Table 17 (mm2 Cu):		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		N/A
3.11.3.5	Cord anchorage (for APPLIANCE COUPLERS not	complying with IEC 60320-1)	N/A
	a) Conductors of POWER SUPPLY CORD provided with strain relieve and insulation protected from abrasion at point of entry to ME EQUIPMENT or a MAINS CONNECTOR by a cord anchorage		N/A
	b) Cord anchorage of POWER SUPPLY CORD is made of and arranged as follows when a total insulation failure of POWER SUPPLY CORD caused conductive non-PROTECTIVELY EARTHED ACCESSIBLE PARTS to exceed limits of 8.4:		N/A
	- insulating material, or		N/A
	- metal, insulated from conductive accessible parts non-PROTECTIVELY EARTHED by a means of PROTECTION, or		N/A
	- metal provided with an insulating lining affixed to cord anchorage, except when it is a flexible bushing forming part of the cord guard in 8.11.3.6, and complying with the requirements for one MEANS OF PROTECTION		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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 other than parts of cord anchorage		N/A
	e) Conductors of POWER SUPPLY CORD arranged to prevent PROTECTIVE EARTH CONDUCTOR against strain as long as phase conductors are in contact with their terminals when cord anchorage fails		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:	The cord is only used for test, it is not the part of supply	N/A
	Cord subjected to a torque in Table 18 for 1 min immediately after pull tests		N/A
	Cord anchorage did not allow cord sheath to be longitudinally displaced by more than 2 mm or conductor ends to move over a distance of more than 1 mm from their connected position		N/A
	CREEPAGE and CLEARANCES not reduced below limits in 8.9		N/A
	It was not possible to push the cord into ME EQUIPMENT or MAINS CONNECTOR to an extent the cord or internal parts would be damaged		N/A
3.11.3.6	POWER SUPPLY CORDS other than for STATIONARY ME EQUIPMENT protected against excessive bending at inlet opening of equipment or of MAINS CONNECTOR by means of an insulating cord guard or by means of an appropriately shaped opening		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 D2 gram attached to the free end of cord (g)		N/A
	Cord guard of temperature-sensitive material tested at 23 °C ± 2 °C, and flat cords bent in the		N/A

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Clause	Requirement + Test		Result - Remark	Verdict

	plane of least resistance		
	Curvature of the cord radius, immediately after mass attached, was not less than 1.5 x D:		N/A
3.11.4	MAINS TERMINAL DEVICES		N/A
3.11.4.1	PERMANENTLY INSTALLED and ME EQUIPMENT with non-DETACHABLE POWER SUPPLY CORD replaceable by SERVICE PERSONNEL provided with MAINS TERMINAL DEVICES ensuring reliable connection	Product is recognized component, the connection method was unknown, this clause shall be evaluated during the end application.	N/A
	Terminals alone are not used to keep conductors in position, except when barriers are provided such that CREEPAGE and CLEARANCES cannot be reduced below 8.9 if any conductor breaks away		N/A
	Terminals of components other than terminal blocks complying with requirements of this Clause and marked according to 7.3.7 used as terminals intended for external conductors		N/A
	Screws and nuts clamping external conductors do not serve to secure any other component, except they also clamp internal conductors when unlikely to be displaced when fitting the supply conductors		N/A
3.11.4.2	Arrangement of MAINS TERMINAL DEVICES		
	a) Terminals provided for connection of external cords or POWER SUPPLY CORDS together with PROTECTIVE EARTH TERMINAL grouped to provide convenient means of connection	Product is recognized component, the connection method was unknown, this clause shall be evaluated during the end application.	N/A
	b) PROTECTIVE EARTH CONDUCTOR connections complied with 8.6		N/A
	c) Marking of MAINS TERMINAL DEVICES complied with 7.3		N/A
	d) MAINS TERMINAL DEVICES not accessible without use of a TOOL		N/A
	e) A MEANS OF PROTECTION are not short circuited when one end of a flexible conductor with NOMINAL cross-sectional area is stripped 8 mm and a single free wire is bent in each possible direction		N/A
3.11.4.3	Internal wiring not subjected to stress and CREEPAGE and CLEARANCES not reduced below 8.9 after fastening and loosening a conductor of largest cross-sectional area 10 times		N/A
3.11.4.4	Terminals with clamping means for a rewirable		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	flexible cord did not require special preparation of conductors and conductors were not damaged and did not slip out when clamping means tightened as verified by test of 8.11.3.4		
8.11.4.5	Adequate space provided inside ME EQUIPMENT designed for FIXED wiring or a re-wirable POWER SUPPLY CORD to allow for connection of conductors, and covers fitted without damage to conductors or their insulation		N/A
	Correct connection and positioning of conductors before ACCESS COVER was fitted verified by an installation test		N/A
8.11.5	Mains fuses and OVER-CURRENT RELEASES		Pass
	A fuse or OVER-CURRENT RELEASE provided in each supply lead for CLASS I and CLASS II ME EQUIPMENT with a functional earth connection per clause 8.6.9, and in at least one supply lead for other single-phase CLASS II ME EQUIPMENT:	See appended TABLE: List of Critical Components	Pass
	- neutral conductor not fused for PERMANENTLY INSTALLED ME EQUIPMENT	Not Permanently installed ME equipment.	N/A
	- fuses or OVER-current RELEASES omitted due to provision of two means of PROTECTION between all parts of opposite polarity within MAINS PART, and between all parts of MAINS PART and EARTH, and such provisions continued within all components		N/A
	Effect of short-circuit fault conditions in other circuits taken into consideration before eliminating fuses or OVER-CURRENT RELEASES		N/A
	Protective devices have adequate breaking capacity to interrupt the maximum fault current including the available short-circuit:	See appended TABLE: List of Critical Components	Pass
	A fuse or OVER-CURRENT RELEASE not provided in a PROTECTIVE EARTH CONDUCTOR		Pass
	Fuses complying with IEC 60127 have high breaking capacity (1 500 A) and prospective short-circuit current > 35 A or 10 times current rating of the fuse, whichever is greater		N/A
	Justification for omission of fuses or OVER- CURRENT RELEASES is in RISK MANAGEMENT FILE	Not omission of fuses inside.	N/A
8.11.6	Internal wiring of the MAINS PART		N/A

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Clause	Requirement + Test	Result - Remark	Verdict		
		•			
	a) Cross-sectional area of internal wiring in a MAINS PART between MAINS TERMINAL DEVICE and protective devices is not less than minimum required for POWER SUPPLY CORD as in clause 8.11.3.3 (mm2 Cu)	No primary wiring used. To be evaluated in end product.	N/A		
	b) Cross-sectional area of other wiring in MAINS PART and sizes of tracks on printed wiring circuits sufficient to prevent fire in case of fault currents:		N/A		
	When necessary, ME EQUIPMENT connected to a SUPPLY MAINS with max available short-circuit fault, and subsequent simulation of a fault in a single insulation in MAINS PART did not result in any of the HAZARDOUS SITUATIONS in 13.1.2		N/A		

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Clause	Requirement + Test	Result - Remark	Verdict

9	PROTECTION AGAINST MECHANICAL HAZARDS OF ME EQUIPMENT AND ME SYSTEMS		
9.1	ME EQUIPMENT complies with Clause 4 for design and manufacture, and mechanical strength (15.3)	To be evaluated in end product.	N/A
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 function		N/A
	Warnings marked on ME EQUIPMENT or included in instructions for use when HAZARDS persisted after implementing all reasonable protective measures:		N/A
9.2.2	TRAPPING ZONE		N/A
9.2.2.1	ME EQUIPMENT with a TRAPPING ZONE complied with one or more of the following as feasible:	No Trapping zone.	N/A
	- Gaps in Clause 9.2.2.2, or		N/A
	- Safe distances in Clause 9.2.2.3, or		N/A
	- GUARDS and protective measures in 9.2.2.4, or		N/A
	- Continuous activation in Clause 9.2.2.5		N/A
	Control of relevant motion complied with 9.2.2.6 when implementation of above protective measures were inconsistent with INTENDED USE of ME EQUIPMENT or ME SYSTEM		N/A
9.2.2.2	A TRAPPING ZONE considered not to present a MECHANICAL HAZARD when gaps of TRAPPING ZONE complied with dimensions per Table 20:		N/A
9.2.2.3	A TRAPPING ZONE considered not to present a MECHANICAL HAZARD when distances separating OPERATOR, PATIENT, and others from TRAPPING ZONES exceeded values in ISO 13852		N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
	Distances measured from expected positions of OPERATOR, PATIENT, and others near EQUIPMENT in NORMAL USE or under foreseeable misuse		N/A	
9.2.2.4	GUARDS and protective measures		N/A	
9.2.2.4.1	A TRAPPING ZONE considered not to present a MECHANICAL HAZARD when GUARDS and protective measures were of robust construction, not easy to bypass or render non-operational, and did not introduce additional unacceptable RISK based on results of applicable tests in 15.3 for ENCLOSURES		N/A	
9.2.2.4.2	FIXED GUARDS held in place by systems that cannot be dismantled without 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 all applicable tests as confirmed by review of RISK MANAGEMENT FILE		N/A	
9.2.2.4.4	Protective measures provided in control system prevented moving parts from starting to move while in reach of persons:		N/A	
	- PROTECTIVE measures prevented TRAPPING ZONE from reach, or, when it was reached, SYSTEM movement stopped once ME EQUIPMENT started to move, and in the latter case, no HAZARD or damage resulted		N/A	
	- when PROTECTIVE measure was in a single FAULT CONDITION, and an unacceptable RISK could arise, one or more emergency stopping device(s) provided		N/A	
	RISK MANAGEMENT FILE reviewed and all conditions confirmed		N/A	
9.2.2.5	Continuous activation		N/A	
	TRAPPING ZONE not considered to present a MECHANICAL HAZARD where impractical to make TRAPPING ZONE inaccessible when:		N/A	

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IEC 60601				
Clause	Requirement + Test	Result - Remark	Verdict	
•			1	
	-)		N1/A	

	a) movement was in OPERATOR'S field of view		N/A
	b) movement of ME EQUIPMENT or its parts was possible only by continuous activation of control by OPERATOR as long as OPERATOR response to deactivate device relied upon to prevent HARM		N/A
	Manually operated movements complied with this clause since mass and velocity allowed adequate control of positioning without causing an unacceptable RISK		N/A
	c) when in a SINGLE FAULT CONDITION of continuous activation system an unacceptable RISK could arise, one or more emergency stopping device(s) provided in ME EQUIPMENT:		N/A
9.2.2.6	Speed of movement(s) positioning parts of ME EQUIPMENT or PATIENT, when contact with ME EQUIPMENT could result in a HAZARDOUS SITUATION, limited to allow OPERATOR control of positioning without resulting in an unacceptable RISK:		N/A
	Over travel (stopping distance) 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 HAZARDS associated with moving parts		N/A
9.2.3.1	Controls positioned, recessed, or protected by other means and could not be accidentally actuated to result in unacceptable RISK, except when ergonomic considerations for a PATIENT with special needs require otherwise	No moving parts.	N/A
9.2.3.2	RISK due to over travel (past range limits) of ME EQUIPMENT parts reduced to an acceptable level, and stops or other means with mechanical strength to withstand intended loading in NORMAL USE and foreseeable misuse provided limiting measure in NORMAL and SINGLE FAULT CONDITION:		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:	No Emergency stopping devices.	N/A
	a) Emergency stopping device reduced RISK to an acceptable level		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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IEC 60601				
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 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 (symbol IEC 60417-5638, DB:2002-10) 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 protective measure, or emergency stopping, and	No such construction.	N/A	
	- 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	
9.3	Rough surfaces, sharp corners and edges of ME	To be considered base on RM	N/A	

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IEC 60601				
Clause	Requirement + Test		Result - Remark	Verdict

	EQUIPMENT that could result in an unacceptable RISK avoided or covered:	in the end application.	
9.4	Instability HAZARDS		N/A
9.4.1	ME EQUIPMENT, other than FIXED and handheld, for placement on a surface did not overbalance (tip over) or move unexpectedly, to the degree that it could present an unacceptable RISK to PATIENT, or OPERATOR as tested in 9.4.2 to 9.4.4	DC charger, To be evaluated in the end application.	N/A
9.4.2	Instability - overbalance		N/A
9.4.2.1	ME EQUIPMENT or its parts did not overbalance when prepared per ACCOMPANYING DOCUMENTS, or when not specified, as in 9.4.2.2, and placed on a 10° inclined plane from horizontal consisting of a hard and flat surface (e.g., concrete floor covered with 2 to 4 mm thick vinyl material):	Recognized component – To be evaluated in the end application.	N/A
9.4.2.2	Instability excluding transport		N/A
	ME EQUIPMENT or its parts prepared based on a) to g), inclusive, did not overbalance when placed in different positions of NORMAL USE, except transport positions, on a 5° inclined plane from horizontal (hard and flat surface)		N/A
	A warning provided, stating "Transport only under conditions described in instructions for use or marked on ME EQUIPMENT with an indication of RESIDUAL RISK if ME EQUIPMENT or its parts overbalances" 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 with a mass of 25 kg or more, other than FIXED ME EQUIPMENT for use on floor, did not overbalance due to pushing or resting	Recognized component – To be evaluated in the end application.	N/A
	Surfaces of ME EQUIPMENT where a RISK of overbalancing exists from pushing, leaning, resting etc., permanently marked with a CLEARLY LEGIBLE warning of the RISK (e.g., safety sign 5 of Table D.2, safety sign ISO 7010-P017)		N/A
	ME EQUIPMENT did not overbalance when placed on a horizontal plane, and a force of 25% of its weight, but not more than 220 N, applied in different directions, except a direction with an upward component		N/A
	b) ME EQUIPMENT, other than FIXED ME EQUIPMENT, for use on the floor or on a table, did		N/A

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	IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict	
	not overbalance due to sitting or stepping, except when a legible warning of this RISK provided on ME EQUIPMENT (e.g., safety signs 6 and 7 of Table D.2, safety signs ISO 7010-P018, or ISO 7010-P019 as appropriate)			
	ME EQUIPMENT did not overbalance when placed on a horizontal plane, and a constant force of 800 N applied at the point of maximum moment to working surfaces, offering an foothold or sitting surface of a min 20 x 20 cm area, and at a height 1 m from the floor		N/A	
9.4.2.4	Castors and wheels		N/A	
9.4.2.4.1	Means used for transportation of MOBILE ME EQUIPMENT (e.g., castors or wheels) did not result in an unacceptable RISK when MOBILE ME EQUIPMENT moved or parked in NORMAL USE		N/A	
9.4.2.4.2	Force required to move MOBILE ME EQUIPMENT along a hard and flat horizontal surface did not exceed 200 N applied at a height of 1 m above floor or highest point on ME EQUIPMENT when < 1 m high, except when instructions indicated more than one person needed (N)		N/A	
9.4.2.4.3	MOBILE ME EQUIPMENT exceeding 45 kg configured with a SAFE WORKING LOAD, moved 10 times in forward direction over a solid vertical plane obstruction with wheels impacting the obstruction at a speed of 0.4 m/s ± 0.1 m/s for manual or with max speed for motor driven MOBILE ME EQUIPMENT		N/A	
	ME EQUIPMENT went up the obstruction without overbalancing or any other unacceptable RISK as determined by examination of RISK MANAGEMENT FILE, ME EQUIPMENT and its parts		N/A	
	There was no reduction of CREEPAGE and CLEARANCES below 8.9, no access to parts exceeding limits in 8.4, and no access to moving parts capable of causing HARM, and		N/A	
	- Assessment criteria in Clause 9 and 11.6 used		N/A	
	- Dielectric strength test of 8.8.3 conducted to evaluate integrity of solid SUPPLEMENTARY or REINFORCED INSULATION		N/A	
	- CREEPAGE DISTANCES and AIR CLEARANCES measured compared favourably with min distances in clause 8.9		N/A	

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	IEC 60601				
Clause	Requirement + Test	Result - Remark	Verdict		

	Small chips not adversely affecting protection against electric shock or moisture, disregarded		N/A
9.4.3	Instability from unwanted lateral movement (includin	g sliding)	N/A
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	Recognized component – To be evaluated in the end application.	N/A
	b) MOBILE ME EQUIPMENT provided with locking means to prevent unwanted movements of ME EQUIPMENT or its parts in transport position		N/A
	c) No unacceptable RISK due to unwanted lateral movement resulted when MOBILE ME EQUIPMENT placed in its transport position or worst case NORMAL USE position with SAFE WORKING LOAD, and locking device activated, on a 10° inclined hard flat surface with castors in the worst-case position		N/A
	Following initial elastic movement, creepage, and pivoting of castors, no further movement of MOBILE ME EQUIPMENT > 50 mm (in relation to inclined plane) occurred (mm)		N/A
	RISK due to any initial movement assessed taking into consideration NORMAL USE of ME EQUIPMENT		N/A
9.4.3.2	Instability excluding transport		N/A
	a) Further movement of ME EQUIPMENT (after initial elastic movement) was less than 50 mm when MOBILE ME EQUIPMENT with a SAFE WORKING LOAD positioned on a 5 inclined hard flat surface with wheel locked or braking system activated (mm)		N/A
	RISK due to initial movements assessed taking into consideration NORMAL USE of ME EQUIPMENT		N/A
	b) TRANSPORTABLE or STATIONARY ME EQUIPMENT for use on the floor and with a SAFE WORKING LOAD prepared as in 9.4.2.2 and placed on a horizontal plane with locking device activated and castors, when supplied, in their worst -case position		N/A
	Further movement of ME EQUIPMENT (after initial elastic movement), was no more than 50 mm when a force of 25 % of weight of unit, but less than 220 N, applied in different directions, except a direction with an upwards component, at highest point of ME EQUIPMENT but 1.5 m from floor:		N/A

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

	RISK due to initial movements assessed taking into consideration NORMAL USE of ME EQUIPMENT		N/A
9.4.4	Grips and other handling devices		N/A
	a) ME EQUIPMENT other than PORTABLE EQUIPMENT or its part 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, except when handling is obvious and causing HAZARDS	Recognized component – To be evaluated in the end application.	N/A
	Handles, when supplied, suitably placed to enable ME EQUIPMENT or its part to be carried by two or more persons and by examination of EQUIPMENT, its part, or ACCOMPANYING DOCUMENTS		N/A
	b) PORTABLE ME EQUIPMENT with a mass > 20 kg provided with one or more carrying-handles suitably placed to enable carrying by two or more persons as confirmed by actual carrying		N/A
	c) Carrying handles and grips and their means of attachment withstood loading test:		N/A
9.5	Expelled parts HAZARD		N/A
9.5.1	Suitability of means of protecting against unacceptable RISK of expelled parts determined by assessment and examination of RISK MANAGEMENT FILE:	No expelled part.	N/A
9.5.2	Cathode ray tube(s) complied with IEC 60065:2001, Clause 18, or IEC 61965:		N/A
9.6	Acoustic energy (including infra- and ultrasound) an	d vibration	N/A
9.6.1	Human exposure to acoustic energy and vibration from ME EQUIPMENT doesn't result in unacceptable RISK as confirmed in RISK MANAGEMENT FILE including audibility of auditory alarm signals, PATIENT sensitivity, and tests of 9.6.2 and 9.6.3	No Acoustic energy.	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, except for auditory alarm signals	No acoustic energy.	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)		-
	•		

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Clause	Requirement + Test		Result - Remark	Verdict

	- 140 dB un-weighted sound pressure level for impulsive or impact acoustic energy (dB):		-
9.6.2.2	RISK MANAGEMENT FILE examined for RISKS associated with infrasound or ultrasound, when present, addressed in RISK MANAGEMENT PROCESS		N/A
9.6.3	Hand-transmitted vibration		N/A
	Means provided, except for INTENDED USE vibrations, to protect PATIENT and OPERATOR when hand-transmitted frequency-weighted r.m.s. acceleration generated in NORMAL USE exceeds specified values measured at points of hand contact with PATIENT or OPERATOR	DC supply , To be evaluated in the end application.	N/A
	- 2.5 m/s2 for a cumulative time of 8 h during a 24 h period (m/s2)		N/A
	- Accelerations for different times, inversely proportional to square root of time (m/s2):		N/A
9.7	Pressure vessels and parts subject to pneumatic and hydraulic pressure		N/A
9.7.1	Requirements of this clause applied to vessels and parts of ME EQUIPMENT subject to pressure resulting in rupture and unacceptable RISK	No pressure vessels and parts subject to pneumatic and hydraulic pressure.	N/A
	Parts of a pneumatic or hydraulic system used as a support system, comply with 9.8		N/A
9.7.2	Pneumatic and hydraulic parts of ME EQUIPMENT or ACCESSORIES met following requirements based on examination of RISK MANAGEMENT FILE:		N/A
	- no unacceptable RISK resulted from loss of pressure or loss of vacuum		N/A
	- no unacceptable RISK resulted from a fluid jet caused by LEAKAGE or a component failure		N/A
	- Elements of ME EQUIPMENT or an ACCESSORY, especially pipes and hoses leading to an unacceptable RISK protected against harmful external effects		N/A
	- Reservoirs and similar vessels leading to an unacceptable RISK are automatically depressurized when ME EQUIPMENT is isolated from its POWER supply		N/A
	Means provided for isolation, or local depressurizing reservoirs and similar vessels, and pressure indication when above not possible		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- all Elements remaining under pressure after isolation of ME EQUIPMENT or an ACCESSORY from its POWER supply resulting in an unacceptable RISK provided with clearly identified exhaust devices, and a warning to depressurize these Elements before setting or maintenance activity		N/A
9.7.3	Maximum pressure a part of ME EQUIPMENT can be subjected to in NORMAL and SINGLE FAULT CONDITIONS considered to be highest of following:		N/A
	a) RATED maximum supply pressure from an external source		N/A
	b) Pressure setting of a pressure-relief device provided as part of assembly		N/A
	c) Max pressure that can develop by a source of pressure that is part of assembly, unless pressure limited by a pressure-relief device		N/A
9.7.4	Max pressure in NORMAL and SINGLE FAULT CONDITIONS did not exceed MAXIMUM PERMISSIBLE WORKING PRESSURE for EQUIPMENT part, except as allowed in 9.7.7, confirmed by examination of ME EQUIPMENT and RISK MANAGEMENT FILE, and by functional tests		N/A
9.7.5	A pressure vessel withstood a HYDRAULIC TEST PRESSURE when pressure was > 50 kPa, and product of pressure and volume was more than 200 kPal		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

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IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict
	c) Could be adjusted or rendered inoperative without a TOOL		N/A
	d) With discharge opening located and directed as to not to release material towards any person		N/A
	e) With discharge opening located and directed as to not to deposit material on parts that could result in an unacceptable RISK		N/A
	f) Adequate discharge capacity provided to ensure that pressure will not exceed MAXIMUM PERMISSIBLE WORKING 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
.8	HAZARDS associated with support systems		N/A
.8.1	ME EQUIPMENT parts designed to support loads or provide actuating forces when a mechanical fault could constitute an unacceptable RISK:	No support system.	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 HAZARDS from static, dynamic, vibration, impact and pressure loading, foundation and other movements, temperature, environmental, manufacture and SERVICE conditions		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		N/A

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IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

	adequacy of surface of structure parts will be attached to	
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
	When test results were part of information, testing consisted of application of a test load to support assembly equal to TOTAL LOAD times required TENSILE SAFETY FACTOR while support assembly under test was in equilibrium after 1 min, or not resulted in an unacceptable RISK:	N/A
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 minimize RISK of physical injuries and accidental loosening of secured joints	N/A
	SAFE WORKING LOAD of ME EQUIPMENT or its parts supporting or suspending PATIENTS or OPERATORS is sum of mass of PATIENTS or mass of OPERATORS plus mass of ACCESSORIES supported by ME EQUIPMENT or its parts	N/A
	Supporting and suspending parts for adult human PATIENTS or OPERATORS designed for a PATIENT or OPERATOR with a min mass of 135 kg and ACCESSORIES with a min mass of 15 kg, unless stated by MANUFACTURER	N/A
	Maximum mass of PATIENT included in SAFE WORKING LOAD of ME EQUIPMENT or its parts supporting or suspending PATIENTS adapted when MANUFACTURER specified applications	N/A
	Max allowable PATIENT mass < 135 kg marked on ME EQUIPMENT and stated in ACCOMPANYING DOCUMENTS	N/A
	Max allowable PATIENT mass > 135 kg stated in ACCOMPANYING DOCUMENTS	N/A
	Examination of markings, ACCOMPANYING DOCUMENTS, and RISK MANAGEMENT FILE	N/A

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Clause Requirement + Test F	Result - Remark	Verdict

	confirmed compliance:	
9.8.3.2	Part of SAFE WORKING LOAD representing mass of PATIENTS or OPERATORS is distributed on support/suspension surface representing human body as in Fig A.19	N/A
	Part of SAFE WORKING LOAD representing mass of ACCESSORIES deployed as in NORMAL USE and, when not defined, at worst case position permitted by configuration or ACCESSORIES attachment on support/suspension parts	N/A
	a) Entire mass of PATIENT or OPERATOR distributed over an area of 0.1 m2 on a foot rest temporarily supporting a standing PATIENT or OPERATOR:	N/A
	Compliance confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications of materials and their processing, and tests	N/A
	PATIENT support/suspension system positioned horizontally in most disadvantageous position in NORMAL USE, and a mass 2 x 135 kg or twice intended person's load (the greater used), applied to foot rest over an area of 0.1 m2 for 1 min (Kg):	N/A
	Damage or deflection resulting in an unacceptable RISK did not occur on foot rest and its secured joints	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, RISK MANAGEMENT FILE, specifications of materials and their processing, and by a test:	N/A
	PATIENT support/suspension system set in most unfavourable NORMAL USE position, and a mass of 60 % of part of SAFE WORKING LOAD simulating PATIENT or OPERATOR, or a min 80 kg, placed on support or suspension system with centre of load 60 mm from outer edge of support or suspension system for at least one minute (Kg):	N/A
	Deflection of support/suspension system resulting in an unacceptable RISK not occur	N/A
9.8.3.3	Dynamic forces that can be exerted on equipment	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	parts supporting or suspending a PATIENT or OPERATOR in NORMAL USE did not result in an unacceptable RISK as confirmed by following test:		
	PATIENT support/suspension system set in most unfavourable NORMAL USE position, and a mass equal to SAFE WORKING LOAD simulating PATIENT or OPERATOR dropped from 150 mm above seat area on an area of support/ suspension a PATIENT or OPERATOR can sit		N/A
9.8.4	Systems with MECHANICAL PROTECTIVE DEVIC	ES	N/A
9.8.4.1	a) A MECHANICAL PROTECTIVE DEVICE provided when a support system or its parts impaired by wear have a TENSILE SAFETY FACTOR to values in Table 21, rows 5 and 6, but less than 3 and 4		N/A
	b) MECHANICAL PROTECTIVE complies with the requirements as follows:		N/A
	- Designed based on TOTAL LOAD, and includes effects of Safe WORKING LOAD when applicable		N/A
	- Has TENSILE SAFETY FACTORS for all parts not less than Table 21, row 7		N/A
	- Activated before travel (movement) produced an unacceptable RISK		N/A
	- Takes into account Clauses 9.2.5 and 9.8.4.3		N/A
	Compliance confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications of materials and their processing:		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 (e.g., a secondary cable)		N/A
	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
	- Further use of ME EQUIPMENT not possible until replacement of MECHANICAL PROTECTIVE device		N/A
	- ACCOMPANYING DOCUMENTS instruct once MECHANICAL PROTECTIVE device is Activated, SERVICE PERSONNEL shall be called, and MECHANICAL PROTECTIVE device must be		N/A

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	replaced before ME EQUIPMENT can be used	
	- ME EQUIPMENT permanently marked with safety sign 2 of Table D.2 (i.e., safety sign 7010-W001)	N/A
	- Marking is adjacent to MECHANICAL PROTECTIVE device or its location relative to MECHANICAL PROTECTIVE device is obvious to SERVICE PERSONNEL	N/A
	- compliance confirmed by examination of ME EQUIPMENT, ACCOMPANYING DOCUMENTS, RISK MANAGEMENT FILE, specifications and processing of materials, and following test	N/A
	A chain, cable, band, spring, belt, jack screw nut, pneumatic or hydraulic hose, structural part or the like, employed to support a load, defeated by a convenient means causing maximum normal load to fall from most adverse position permitted by construction of ME EQUIPMENT	N/A
	Load included SAFE WORKING LOAD in 9.8.3.1 when system was capable of supporting a PATIENT or OPERATOR	N/A
	No evidence of damage to MECHANICAL PROTECTIVE DEVICE affecting its ability to perform its intended function	N/A
9.8.5	Systems without MECHANICAL PROTECTIVE DEV	ICES N/A
	Support system parts have TENSILE SAFETY FACTORS to values in Table 21, rows 1 and 2, and are not impaired by wear:	N/A
	Support system parts impaired by wear, however, they have TENSILE SAFETY FACTORS to values in Table 21, rows 3 and 4	N/A
	Examination of ME EQUIPMENT and RISK MANAGEMENT FILE confirmed compliance	N/A

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	IEC	60601	
Clause	Requirement + Test	Result - Remark	Verdict

10	PROTECTION AGAINST UNWANTED AND EXCE	SSIVE RADIATION HAZARDS	N/A
10.1	X-Radiation		N/A
10.1.1	X-radiation dose-rate was ≤ 36 pA/kg (5 µSv/h) (0.5 mR/h) 5 cm from surface of ME EQUIPMENT including background radiation for ME EQUIPMENT not producing therapeutic/diagnostic X-radiation but producing ionizing radiation:	No X-Radiation.	N/A
	Amount of radiation measured by means of an ionizing chamber radiation monitor with an effective area of 10 cm2 or by other instruments producing equal results		N/A
	ME EQUIPMENT operated as in NORMAL USE at most unfavourable RATED MAINS VOLTAGE and controls adjusted to emit maximum radiation		N/A
	Internal pre-set controls not intended for adjustment during EXPECTED SERVICE LIFE of ME EQUIPMENT not taken into consideration		N/A
10.1.2	RISK from unintended X-radiation from ME EQUIPMENT producing X-radiation for diagnostic and therapeutic purposes addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE (see IEC 60601-1-3 & 1.3):		N/A
10.2	RISK associated with alpha, beta, gamma, neutron, and other particle radiation, when applicable, addressed in RISK MANAGEMENT PROCESS as shown in RISK MANAGEMENT FILE:	No alpha, beta, gamma, neutron, and other particle radiation.	N/A
10.3	RISK associated with microwave radiation, when applicable, addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE	No microwave radiation.	N/A
10.4	Relevant requirements of IEC 60825-1:1993 applied to lasers, light emitting diodes (LEDs), and laser light barriers or similar products		N/A
10.5	RISK associated with visible electromagnetic radiation other than emitted by lasers and LEDS, when applicable, addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE	Not evaluated by Underwriters Laboratories Inc.	N/A
10.6	RISK associated with infrared radiation other than emitted by lasers and LEDS, as applicable, addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE	No such hazard.	N/A
0.7	RISK associated with ultraviolet radiation other than emitted by lasers and LEDS, as applicable,	No ultraviolet radiation.	N/A

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IEC 60601				
Clause	Clause Requirement + Test Result - Remark Verd			
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	LI DIGITALIA GENERAL DE GOGO			
	addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE			

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	IEC	60601	
Clause	Requirement + Test	Result - Remark	Verdict

11	PROTECTION AGAINST EXCESSIVE TEMPERATURES AND OTHER HAZARDS		Pass
11.1	Excessive temperatures in ME EQUIPMENT		Pass
11.1.1	Temperatures on ME EQUIPMENT parts did not exceed values in Tables 22 and 23 operating in worst-case NORMAL USE at maximum rated ambient operating temperature T:	See appended Table 11.1.1	Pass
	Surfaces of test corner did not exceed 90 °C	Recognized component, to be evaluated in the end application	N/A
	THERMAL CUT-OUTS did not operate in NORMAL CONDITION	No thermal cut-outs.	N/A
11.1.2	Temperature of APPLIED PARTS		N/A
11.1.2.1	Temperatures, hot or cold surfaces, and when appropriate, clinical effects of APPLIED PARTS supplying heat to a PATIENT determined and documented in RISK MANAGEMENT FILE and instructions for use	No applied part.	N/A
11.1.2.2	APPLIED PARTS not supplying heat to a PATIENT met Table 24 with max surface temperatures > 41 °C disclosed in instructions for use, and clinical effects regarding maturity of PATIENTS, body surface, surface pressure, medications taken, as shown in RISK MANAGEMENT FILE:	No applied part.	N/A
	Surfaces of APPLIED PARTS cooled below ambient temperatures that can also result in HAZARD evaluated as part of RISK MANAGEMENT PROCESS		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:	No applied part.	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		N/A
	Probability of occurrence and duration of contact for parts likely to be touched and for APPLIED PARTS documented in RISK MANAGEMENT FILE	No applied parts likely to be touched.	N/A
11.1.4	GUARDS preventing contact with hot or cold accessible surfaces removable only with a TOOL	No such condition.	N/A
1.2	Fire prevention		N/A
11.2.1	ENCLOSURE has strength and rigidity necessary	To be evaluated during end	N/A

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	to prevent a fire caused by reasonably foreseeable misuse and met mechanical strength tests for ENCLOSURES in 15.3	application.	
11.2.2	Me equipment and me systems used in conjunction ENVIRONMENTS	with OXYGEN RICH	N/A
11.2.2.1	RISK of fire in an OXYGEN RICH ENVIRONMENT reduced by means limiting spread of fire under NORMAL or SINGLE FAULT CONDITIONS when source of ignition in contact with ignitable material:	To be evaluated during end application.	N/A
	Requirements of 13.1.1 applied to oxygen concentrations up to 25 % at one atmosphere or partial pressures up to 27.5 kPa for higher atmospheric pressures		N/A
	a) No sources of ignition discovered in an OXYGEN RICH ENVIRONMENT in NORMAL and SINGLE FAULT CONDITIONS under any of the following conditions:		N/A
	when temperature of material raised to its ignition temperature		N/A
	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		N/A
	Alternative test in this clause did not identify existence of ignition sources at highest voltage or current, respectively:		N/A
	A safe upper limit determined by dividing upper limit of voltage or current, respectively, with safety margin factor of three:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
	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:		N/A	
	1) Electrical components in an OXYGEN RICH ENVIRONMENT provided with power supplies having limited energy levels lower than those considered sufficient for ignition in 11.2.2.1 a) as determined by examination, measurement or calculation of power, energy, and temperatures in NORMAL and SINGLE FAULT CONDITIONS identified in 11.2.3		N/A	
	2) Max oxygen concentration measured until it did not exceed 25 % in ventilated compartments with parts that can be a source of ignition only in SINGLE FAULT CONDITION and can be penetrated by oxygen due to an undetected leak (%)		N/A	
	3) A compartment with parts or components that can be a source of ignition only under SINGLE FAULT CONDITION separated from another compartment containing an OXYGEN RICH ENVIRONMENT by sealing all joints and holes for cables, shafts, or other purposes		N/A	
	Effect of possible leaks and failures under SINGLE FAULT CONDITION that could cause ignition evaluated using a RISK ASSESSMENT to determine maintenance intervals by examination of documentation and RISK MANAGEMENT FILE:		N/A	
	4) Fire initiated in ENCLOSURE of electrical components in a compartment with OXYGEN RICH ENVIRONMENT that can become a source of ignition only under SINGLE FAULT CONDITIONS self-extinguished rapidly and no hazardous amount of toxic gases reached PATIENT as determined by analysis of gases		N/A	
1.2.2.2	RISK of ignition under least favourable conditions 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 when electrical components mounted outside of ME EQUIPMENT or ME SYSTEM	Recognized component, the environment of end application is unclear, to be evaluated in end product.	N/A	
1.2.2.3	Electrical connections within a compartment containing an OXYGEN RICH ENVIRONMENT under NORMAL USE did not produce sparks due	Recognized component, the environment of end application is unclear, to be evaluated in	N/A	

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Clause	Requirement + Test	Result - Remark	Verdict	
	to loosening or breaking, except when limited in power and energy to values in 11.2.2.1 a) 5)	end product.		
	- Screw-attachments protected against loosening during use by varnishing, use of spring washers, or adequate torques		N/A	
	- Soldered, crimped, and pin-and-socket CONNECTIONS of cables exiting ENCLOSURE include additional MECHANICAL securing means		N/A	
11.2.3	SINGLE FAULT CONDITIONS related to OXYGEN EQUIPMENT and ME SYSTEMS considered	RICH ENVIRONMENTS ME	N/A	
	- Failure of a ventilation system constructed in accordance with 11.2.2.1 b) 2):	Recognized component, the environment of end application is unclear, to be evaluated in end product.	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			
	ME EQUIPMENT met this clause for alternate means of compliance with selected HAZARDOUS SITUATIONS and fault conditions in 13.1.2:	The product is open frame power supply, the enclosure was not provided, this clause shall be evaluated during end application.	N/A	
	Constructional requirements were met, or		N/A	
	- constructional requirements specifically analysed in RISK MANAGEMENT FILE		N/A	
	Justification, when requirement not met:		N/A	
	a) Flammability classification of insulated wire within fire ENCLOSURE is FV-1, or better, based on IEC 60695 series as determined by examination of data on materials		N/A	
	Flammability classification of connectors, printed circuit boards, and insulating material on which		N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
	components are mounted is FV-2, or better, based on IEC 60695-11-10 as decided by examination of materials data:		
	If no FV Certification, FV tests based on IEC 60695-11-10 conducted on 3 samples of complete parts (or sections of it), including area with min. thickness, ventilation openings		N/A
	b) Fire ENCLOSURE met following:		N/A
	1) No openings at bottom or, as specified in Fig 39, constructed with baffles as in Fig 38, or made of perforated metal as in Table 25, or a metal screen with a mesh 2 x 2 mm centre to centre and wire diameter of at least 0.45 mm		N/A
	2) No openings on the sides within the area included within the inclined line C in Fig 39		N/A
	3) ENCLOSURE, baffles, and flame barriers have adequate rigidity and made of appropriate metal or of non-metallic materials, except constructions based on Table 25 and a mesh; FV-2 or better for TRANSPORTABLE ME EQUIPMENT, FV-1 or better for fixed EQUIPMENT, or STATIONARY EQUIPMENT per IEC 60695-11-10, determined by ENCLOSURE examination or flammability classification based on 11.3a)		N/A
11.4	ME EQUIPMENT and ME SYSTEMS intended for use with flammable anaesthetics		
	ME EQUIPMENT, ME SYSTEMS and parts described in ACCOMPANYING DOCUMENTS for use with flammable anaesthetics (CATEGORY AP) or anaesthetics with oxidants (CATEGORY APG) comply with Annex G	Recognized component, the environment of end application is unclear, to be evaluated in end product.	N/A
11.5	ME EQUIPMENT and ME SYSTEMS intended for use in conjunction with flammable agents		
	MANUFACTURER'S RISK MANAGEMENT PROCESS addresses possibility of fire and associated mitigations as confirmed by examination of RISK MANAGEMENT FILE:	Recognized component, the environment of end application is unclear, to be evaluated in end product.	N/A
11.6	Overflow, spillage, leakage, ingress of water or part disinfection, sterilization and compatibility with subs EQUIPMENT		N/A
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	The product is a charger, this clause shall be evaluated in end product.	N/A

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Clause	Requirement + Test		Result - Remark	Verdict

11.6.2	Overflow in ME EQUIPMENT		N/A
	Liquid reservoir liable to overflow in NORMAL USE completely filled and 15 % of its capacity poured in for over 1 min, and except when restricted, TRANSPORTABLE ME EQUIPMENT tilted through an angle of 15° in least favourable direction(s), and when necessary refilled starting from position of NORMAL USE		N/A
	ME EQUIPMENT met dielectric strength and LEAKAGE CURRENT tests and uninsulated electrical parts or electrical insulation of parts that could result in a HAZARDOUS SITUATION were not wet		N/A
11.6. 3	Spillage on ME EQUIPMENT and ME SYSTEM		N/A
	ME EQUIPMENT and ME SYSTEMS handling liquids in NORMAL USE positioned as in 5.4 a) and liquid with composition, volume, duration of spill, point of contact, and test conditions based on RISK MANAGEMENT PROCESS poured steadily on a point on top of ME EQUIPMENT:	The product is a charger, this clause shall be evaluated in end product.	N/A
	ME EQUIPMENT met dielectric strength and LEAKAGE CURRENT tests and uninsulated electrical parts or electrical insulation of parts that could result in a HAZARDOUS SITUATION were not wet		N/A
1.6.4	Leakage		N/A
1.6.5	Ingress of water or particulate matter into ME EQUII	PMENT and ME SYSTEMS	N/A
	ME EQUIPMENT with IP Code placed in least favourable position of NORMAL USE and subjected to tests of IEC 60529 (IP Code):	The product is a charger, this clause shall be evaluated in end product.	N/A
	ME EQUIPMENT met dielectric strength and LEAKAGE CURRENT tests and there were no bridging of insulation or electrical components that could result in a HAZARDOUS SITUATION in NORMAL CONDITION or in a SINGLE FAULT CONDITION		N/A
11.6.6	Cleaning and disinfection of ME EQUIPMENT and M	ME SYSTEMS	N/A
	ME EQUIPMENT/ME SYSTEM and their parts and ACCESSORIES cleaned or disinfected once using methods specified in instructions for use including any cooling or drying period:	The product is a charger, this clause shall be evaluated in end product.	N/A
	ME EQUIPMENT met dielectric strength and LEAKAGE CURRENT tests, with no deterioration resulting in an unacceptable RISK present:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
	Effects of multiple cleanings/disinfections during EXPECTED SERVICE LIFE of EQUIPMENT evaluated by MANUFACTURER and assurance that no unacceptable RISK will occur verified by RISK MANAGEMENT FILE review		N/A	
11.6.7	Sterilization of ME EQUIPMENT and ME SYSTEMS	8	N/A	
	ME EQUIPMENT, ME SYSTEMS and their parts or ACCESSORIES intended to be sterilized assessed and documented according to ISO 11134, ISO 11135, or ISO 11137 as appropriate:	The product is a charger, this clause shall be evaluated in end product.	N/A	
	After the test, ME EQUIPMENT complied with the appropriate dielectric strength and LEAKAGE CURRENT tests and there was no deterioration resulting in an unacceptable RISK:		N/A	
11.6.8	RISKS associated with compatibility of substances used with ME EQUIPMENT addressed in RISK MANAGEMENT PROCESS as confirmed by examination of RISK MANAGEMENT FILE:		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 per ISO 10993		N/A	
11.8	Interruption and restoration of power supply did not result in a HAZARDOUS SITUATION, except interruption of its intended function		N/A	

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	IEC	60601	
Clause	Requirement + Test	Result - Remark	Verdict

12	ACCURACY OF CONTROLS AND INSTRUMENTS AGAINST HAZARDOUS OUTPUTS	S AND PROTECTION	N/A
12.1	RISKS associated with accuracy of controls and instruments stated in RISK MANAGEMENT PROCESS confirmed by RISK MANAGEMENT FILE review	No function for accuracy of controls and instruments and protection against hazardous outputs.	N/A
12.2	RISK of poor USABILITY, including identification, marking, and documents addressed in a USABILITY ENGINEERING PROCESS as confirmed by review of provided records:		N/A
12.3	The need for alarm systems as a means of RISK CONTROL and RISKS associated with operation or failure of alarm system addressed in RISK MANAGEMENT PROCESS		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 as confirmed in RISK MANAGEMENT FILE		N/A
12.4.2	When applicable, need for indication of parameters associated with hazardous output addressed in RISK MANAGEMENT PROCESS as confirmed in RISK MANAGEMENT FILE		N/A
12.4.3	RISKS associated with accidental selection of excessive output values for ME EQUIPMENT with a multi-purpose unit designed to provide low and high-intensity outputs for different treatments addressed in RISK MANAGEMENT PROCESS, confirmed in RISK MANAGEMENT FILE		N/A
12.4.4	When applicable, RISKS associated with incorrect output addressed in RISK MANAGEMENT PROCESS as confirmed by review of RISK MANAGEMENT FILE		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 emitted by ME EQUIPMENT designed to produce radiation for diagnostic/therapeutic purposes	No Diagnostic or therapeutic radiation function.	N/A
	Radiation safety ensured by compliance with requirements of appropriate standards		N/A
12.4.5.2	RISKS associated with diagnostic X-rays addressed in RISK MANAGEMENT PROCESS as confirmed in RISK MANAGEMENT FILE:		N/A

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	IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict	
12.4.5.3	RISKS associated with radiotherapy addressed in RISK MANAGEMENT PROCESS as confirmed by review of RISK MANAGEMENT FILE:		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 confirmed by examination of RISK MANAGEMENT FILE:		N/A	
12.4.6	When applicable, RISKS associated with diagnostic or therapeutic acoustic pressure addressed in RISK MANAGEMENT PROCESS as confirmed in RISK MANAGEMENT FILE		N/A	

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	IEC 60	601	
Clause	Requirement + Test	Result - Remark	Verdict

13	HAZARDOUS SITUATIONS AND FAULT CONDIT	IONS	Pass
13.1	Specific HAZARDOUS SITUATIONS		Pass
13.1.1	None of HAZARDOUS SITUATIONS in 13.1.2- 13.1.4, inclusive, occurred when SINGLE FAULT CONDITIONS applied, one at a time, as in 4.7 and 13.2		Pass
13.1.2	Emissions, deformation of ENCLOSURE or exceeding maximum temperature		Pass
	- Emission of flames, molten metal, poisonous or ignitable substance in hazardous quantities did not occur	To be evaluated during end application.	Pass
	- Deformation of ENCLOSURE impairing compliance with 15.3.1 did not occur		Pass
	- Temperatures of APPLIED PARTS did not exceed allowable values in Table 24 when measured as in 11.1.3:	No applied part.	N/A
	- Temperatures of ME EQUIPMENT parts that are not APPLIED PARTS likely to be touched did not exceed values in Table 23 when measured and adjusted as in 11.1.3:		N/A
	-Allowable values for "other components and materials" in Table 22 times 1.5 minus 12.5 °C were not exceeded		N/A
	Limits for windings in Tables 26, 27, and 31 not exceeded		N/A
	Table 22 not exceeded in all other cases		Pass
	Temperatures measured according to 11.1.3		Pass
	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:	see table 13.2	Pass
	- Supply circuit was unable to supply 15 W one minute after 15 W drawn from supply circuit, or		N/A
	- 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		N/A
3.1.3	- limits for LEAKAGE CURRENT in SINGLE FAULT CONDITION based on 8.7.3 did not exceed	See appended Table 8.7	N/A
	- voltage limits for ACCESSIBLE PARTS including	No applied part or accessible	N/A

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	IEC 6060	1	
Clause	Requirement + Test	Result - Remark	Verdict

	APPLIED PARTS in 8.4.2 did not exceed:	part.	
13.1.4	ME EQUIPMENT complied with the requirements of 9.1 to 9.8 for specific MECHANICAL HAZARDS		N/A
13. 2	SINGLE FAULT CONDITIONS		Pass
13.2.1	During application of SINGLE FAULT CONDITIONS in 13.2.2 -13.2.13, inclusive, NORMAL CONDITIONS in 8.1 a) applied in least favourable combination:	See appended Table 13.2	Pass
13.2.2 - 13.2.12	ME EQUIPMENT complied with 13.2.2 -13.2.12:	See appended Table 13.2	Pass
13.2.13	ME EQUIPMENT remained safe after tests of 13.2.13.2 to 13.2.13.4 (inclusive), and cooling down to room temperature		Pass
	ME EQUIPMENT examined for compliance or appropriate tests such as dielectric strength of motor insulation according to 8.8.3 conducted		Pass
	For insulation of thermoplastic materials relied upon as a MEANS OF PROTECTION (see 8.8), the ball-pressure test specified in 8.8.4.1 a) performed at a temperature 25 °C higher than temperature of insulation measured during tests of 13.2.13.2 to 13.2.13.4 (inclusive).	See appended Table 8.8.4.1	Pass
13.2.13.2	ME EQUIPMENT with heating elements		N/A
	a 1) thermostatically controlled ME EQUIPMENT with heating elements for building-in, or for unattended operation, or with a capacitor not protected by a fuse connected in parallel with THERMOSTAT contacts met tests of 13.2.13.2 b) & 13.2.13.2 c)	No heating elements.	N/A
	a 2) ME EQUIPMENT with heating elements RATED for non-CONTINUOUS OPERATION met tests of 13.2.13.2 b) and 13.2.13.2 c)		N/A
	a 3) other ME EQUIPMENT with heating elements met test of 13.2.13.2 b)		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		N/A

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	element or an intentionally weak part		
	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 tested per 11.1without 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
	Controls limiting temperature in NORMAL CONDITION disabled, except THERMAL CUTOUTS		N/A
	2) When more than one control provided, they were disabled in turn		N/A
	3) ME EQUIPMENT operated at RATED DUTY CYCLE until THERMAL STABILITY achieved, regardless of RATED operating time		N/A
3.2.13.3	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 motors.	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

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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict
	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
	it is intended to be remotely or automatically controlled by a single control device with no redundant protection, or		N/A
	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
	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):		-

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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict

14	PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS)		
14.1	Requirements of this clause not applied to PESS when it provided no BASIC SAFETY or ESSENTIAL PERFORMANCE, or	No such parts / PESS not relied upon for basic safety or essential performance.	N/A
	- when application of ISO 14971 showed that failure of PESS does not lead to unacceptable RISK:		N/A
	Every PROCESS has been followed throughout the PEMS DEVELOPMENT LIFE-CYCLE and a RECORD of PROCESS has been made available as confirmed by RISK MANAGEMENT FILE REVIEW and assessment of PROCESSES cited in this Clause		N/A
	MANUFACTURER considered the need for additional RISK CONTROL measures when unable to follow all PROCESSES identified in Clause 14 for each constituent component of PEMS as confirmed by RISK MANAGEMENT FILE review and assessment of PROCESSES cited in this Clause		N/A
	Assessment of PROCESSES cited in this Clause made by internal audits		N/A
14.2	Documents produced from application of Clause 14 are maintained and form a part of RISK MANAGEMENT FILE in addition to RECORDS and documents required by ISO 14971:		N/A
14.3	RISK MANAGEMENT plan required by 3.5 of ISO 14971 includes reference to PEMS VALIDATION plan		N/A
4.4	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, and schedules		N/A
	PEMS DEVELOPMENT LIFE-CYCLE includes documentation requirements		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
14.5	A documented system for problem resolution within and between all phases and activities of PEMS DEVELOPMENT LIFE-CYCLE has been developed and maintained where appropriate		N/A
	Problem resolution system meets the prescribed criteria depending on type of product:		N/A
	 it is documented as a PART of PEMS DEVELOPMENT LIFE-CYCLE 		N/A
	- it allows reporting of POTENTIAL or existing problems affecting BASIC SAFETY or ESSENTIAL performance		N/A
	- it includes an Assessment of each problem for associated RISKS		N/A
	- it identifies criteria that must be met for the issue to be closed		N/A
	- it identifies the action to be taken to resolve each problem		N/A
14.6	RISK MANAGEMENT PROCESS		N/A
14.6.1	MANUFACTURER considered HAZARDS associated with software and hardware aspects of PEMS including NETWORK/DATA COUPLING, components of third-party origin, legacy subsystems when compiling list of known or foreseeable HAZARDS		N/A
	In addition to the material in ISO 14971, Annex D, list of possible sources for HAZARDS associated with PEMS includes specified causes		N/A
	- failure of NETWORK/DATA COUPLING to provide characteristics necessary for PEMS to achieve its BASIC SAFETY or ESSENTIAL performance		N/A
	 undesired feedback [physical and data] (such as unsolicited/ out of range/ inconsistent input or input from electromagnetic interference) 		N/A
	- unavailable DATA		N/A
	- lack of integrity of DATA		N/A
	- incorrect DATA		N/A
	- incorrect timing of DATA		N/A
	- unintended interactions within & among PESS		N/A
	- unknown aspects or quality of third-party software		N/A
	- unknown aspects or quality of third-party PESS		N/A

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	 lack of DATA security, particularly vulnerability to tampering, unintended interaction with other programs and viruses 	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 6.1 of ISO 14971:	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	N/A
14.8	An architecture satisfying the requirement is specified for PEMS and each of subsystems:	N/A
	The architecture specification makes use of considers the specified items to reduce RISK to an acceptable level, where appropriate:	N/A
	a) COMPONENTS WITH HIGH-INTEGRITY CHARACTERISTICS	N/A
	b) fail-safe functions	N/A
	c) redundancy	N/A
	d) diversity;	N/A
	e) partitioning of functionality	N/A
	f) defensive design potentially limiting hazardous effects by restricting available output power or by introducing means to limit travel of actuators	N/A
	g) allocation of RISK CONTROL measures to subsystems and components of PEMS	N/A
	h) failure modes of components and their effects;	N/A
	i) common cause failures	N/A
	j) systematic failures	N/A
	k) test interval duration and diagnostic coverage	N/A
	I) maintainability	N/A
	m) protection from reasonably foreseeable misuse	N/A
	n) NETWORK/DATA COUPLING specification, when applicable	N/A
14.9	Design is broken up into subsystems, each with a design and test specification where appropriate, and descriptive data on design environment included in RISK MANAGEMENT FILE:	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
14.10	A VERIFICATION plan containing the specified information used to verify and document functions implementing BASIC SAFETY, ESSENTIAL PERFORMANCE, or RISK CONTROL measures:		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
14.11	A PEMS VALIDATION plan containing validation of BASIC SAFETY & ESSENTIAL PERFORMANCE and requiring checks for unintended functioning of PEMS to perform and document PEMS VALIDATION		N/A
	The person with overall responsibility for PEMS VALIDATION is independent of design team, and no member of a design team is responsible for PEMS VALIDATION of their own design		N/A
	All professional relationships of members of PEMS VALIDATION team with members of design team documented in RISK MANAGEMENT FILE providing methods & results of PEMS VALIDATION		N/A
14.12	Continued validity of previous design documentation assessed under a documented modification/change PROCEDURE		N/A
14.13	Technical description includes the following information when PEMS is to be connected to other equipment outside control of PEMS MANUFACTURER by NETWORK/DATA COUPLING		N/A
	a) characteristics of NETWORK/DATA COUPLING necessary for PEMS to achieve its INTENDED USE	_	N/A
	b) list of HAZARDOUS SITUATIONS resulting from a failure of NETWORK/DATA COUPLING to provide the specified characteristics		N/A
	c) instructions to RESPONSIBLE ORGANIZATION containing required information and warnings		N/A
	- connection of PEMS to a NETWORK/DATA COUPLING that includes other EQUIPMENT could		N/A

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	result in previously unidentified RISKS and RESPONSIBLE ORGANIZATION shall identify, analyze, and control such RISKS		
	 subsequent changes to NETWORK/DATA COUPLING introducing new RISKS and requiring new analysis; and changes to NETWORK/DATA COUPLING include: 		N/A
	- NETWORK/DATA COUPLING configuration change		N/A
	- connection of additional items to NETWORK/DATA COUPLING		N/A
	- disconnecting items from NETWORK/DATA COUPLING		N/A
	- update of EQUIPMENT connected to NETWORK/DATA COUPLING		N/A
	- upgrade of EQUIPMENT connected to NETWORK/DATA COUPLING		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

15	CONSTRUCTION OF ME EQUIPMENT		Pass
15.1	RISKS associated with arrangement of controls and indicators of ME EQUIPMENT addressed in RISK MANAGEMENT PROCESS, as confirmed by examination of RISK MANAGEMENT FILE:	No such construction.	N/A
15.2	Parts of ME EQUIPMENT subject to mechanical wear, electrical, environmental degradation or ageing resulting in unacceptable RISK when unchecked for a long period, are accessible for inspection, replacement, and maintenance	Recognized component - To be evaluated in end product.	N/A
	Inspection, servicing, replacement, and adjustment of parts of ME EQUIPMENT can easily be done without damage to or interference with adjacent parts or wiring		N/A
15.3	Mechanical strength		Pass
15.3.1	Mold stress relief, push, impact, drop, and rough handling tests did not result in unacceptable RISK and ME EQUIPMENT displayed adequate mechanical strength		Pass
15.3.2	Push test conducted by subjecting external parts of ENCLOSURE to a steady force of 250 N ± 10 N for 5 s applied to a circular (30mm) plane surface, except bottom of ENCLOSURE of an ME EQUIPMENT >18 kg, using a suitable test tool:	see table 15.3	Pass
	No damage resulting in an unacceptable RISK sustained as determined by examination of RISK MANAGEMENT FILE		Pass
15.3.3	Impact test conducted by subjecting a complete ENCLOSURE or its largest non-reinforced area, except for HAND-HELD ME EQUIPMENT and parts, to a free falling 500 g ± 25 g solid smooth steel ball, approx. 50 mm in diameter from a height of 1.3 m	see table 15.3	Pass
	Test not applied to flat panel displays, platen glass of ME EQUIPMENT, or cathode ray tubes		Pass
	No damage resulting in an unacceptable RISK sustained as shown in RISK MANAGEMENT FILE	_	Pass
15.3.4	Drop test		Pass
15.3.4.1	Sample of HAND-HELD ME EQUIPMENT and HAND-HELD part with SAFE WORKING LOAD allowed to fall freely once from each of 3 different positions as in NORMAL USE from height specified in ACCOMPANYING DOCUMENTS, or from 1 m onto a 50 mm ± 5 mm thick hardwood board lying		N/A

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	flat on a concrete or rigid base:		
	No unacceptable RISK resulted		N/A
15.3.4.2	Sample of PORTABLE ME EQUIPMENT and PORTABLE part with SAFE WORKING LOAD lifted to a height as in Table 29 above a 50 ± 5 mm thick hardwood board lying flat on a concrete floor or rigid base, dropped 3 times from each orientation in NORMAL USE (cm)	see table 15.3	Pass
	No damage resulting in an unacceptable RISK sustained as determined by examination of sample and RISK MANAGEMENT FILE		Pass
15.3.5	Each sample of MOBILE ME EQUIPMENT and MOBILE part with SAFE WORKING LOAD and in most adverse condition in NORMAL USE passed Rough Handling tests	Recognized component, no mobile part. To be evaluated in end product.	N/A
	a) Ascending step shock test conducted on the sample by pushing it 3 times in its normal direction of travel at 0.4 m/s \pm 0.1 m/s against an ascending hardwood step obstruction without the sample going over the obstruction		N/A
	b) Descending step shock test conducted on the sample by pushing it 3 times in its normal direction of travel at 0.4 m/s ± 0.1 m/s in order to fall over a vertical step affixed flat on a rigid base with direction of movement perpendicular to face of the step until full descent achieved		N/A
	c) Door frame shock test conducted on the sample by moving it 3 times in its normal direction of travel at 0.4 m/s ± 0.1 m/s, or for motor driven EQUIPMENT, at maximum possible speed against a hardwood vertical obstacle higher than EQUIPMENT contact point(s)		N/A
	No damage resulting in an unacceptable RISK sustained as determined by examination of sample and RISK MANAGEMENT FILE		Pass
15.3.6	Examination of ENCLOSURE made from molded or formed thermoplastic material indicated that material distortion due to release of internal stresses by molding or forming operations will not result in an unacceptable RISK		Pass
	Mold-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	see table 15.3	Pass

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	in 11.1.3, but no less than 70 °C:		
	No damage resulting in an unacceptable RISK		Pass
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		N/A
	Based on review of EQUIPMENT, ACCOMPANYING DOCUMENTS, specifications and processing of materials, and MANUFACTURER'S relevant tests or calculations, corrosion, ageing, mechanical wear, degradation of biological materials due to bacteria, plants, animals and the like, will not result in an unacceptable RISK		N/A
15.4	ME EQUIPMENT components and general assemb	ly	N/A
15.4.1	Incorrect connection of accessible connectors, removable without a TOOL, prevented where an unacceptable RISK exists, in particular:	Recognized component without risk management process. The application of this clause shall be considered base on RM evaluation in end product.	N/A
	a) Plugs for connection of PATIENT leads cannot be connected to other outlets on same ME EQUIPMENT intended for other functions, except when RISK MANAGEMENT FILE provides proof that no unacceptable RISK could result:	No patient connections.	N/A
	b) Medical gas connections on ME EQUIPMENT for different gases to be operated in NORMAL USE are not interchangeable as verified by review of RISK MANAGEMENT FILE:	No Medical gas connections.	N/A
15.4.2	Temperature and overload control devices		N/A
15.4.2.1	a) THERMAL CUT-OUTS and OVER-CURRENT RELEASES with automatic resetting not used in ME EQUIPMENT when their use could result in a HAZARDOUS SITUATION by resetting action as verified by review of RISK MANAGEMENT FILE .:	No such component is incorporated.	N/A
	b) THERMAL CUT-OUTS with a safety function to be reset by a soldering operation affecting operating value not fitted in ME EQUIPMENT as verified by examination of design and RISK MANAGEMENT FILE		N/A
	c) An independent non-SELF-RESETTING THERMAL CUT-OUT is, additionally, provided where a failure of a THERMOSTAT could constitute a HAZARD as verified by examination of		N/A

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design and RISK MANAGEMENT FILE:	
d) Based on design and RISK MANAGEMENT FILE review, loss of function of ME EQUIPMENT due to operation of THERMAL CUT-OUT or OVER CURRENT RELEASE doesn't result in a HAZARDOUS SITUATION	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 of ME EQUIPMENT as verified by following tests:	N/A
Positive temperature coefficient devices (PTC's) complied with IEC 60730-1: 1999, clauses 15, 17, J.15, and J.17 as applicable	N/A
ME EQUIPMENT containing THERMAL CUT- OUTS and OVER-CURRENT RELEASES operated under the conditions of Clause 13:	N/A
SELF-RESETTING THERMAL CUT-OUTS and OVER-CURRENT RELEASES including circuits performing equivalent functions (other than PTC's) Certified according to appropriate standards	N/A
In the absence of Certification in accordance with IEC standards, SELF-RESETTING THERMAL CUT-OUTS and OVER-CURRENT RELEASES including circuits performing equivalent functions (other than PTC's) operated 200 times	N/A
Manual reset THERMAL CUT-OUTS and OVER- CURRENT RELEASES Certified in accordance with appropriate IEC standards	N/A
When certification based on IEC standards, or data from MANUFACTURER demonstrating reliability of component to perform its safety-related function is not available, manual reset THERMAL CUT-OUTS and OVER-CURRENT RELEASES operated 10 times	N/A
Thermal protective devices tested separately from ME EQUIPMENT when engineering judgment indicated test results would not be impacted	N/A
g) Protective device, provided on ME EQUIPMENT incorporating a fluid filled container with heating means, operated when heater switched on with container empty and prevented an unacceptable RISK due to overheating	N/A

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	h) ME EQUIPMENT with tubular heating elements provided with protection against overheating in both leads where a conductive connection to earth could result in overheating as verified by review of design and RISK MANAGEMENT FILE		N/A		
15.4.2.2	Temperature settings clearly indicated when		N/A		

N/A

No battery is provided.

Recognized component - To

be considered in end product.

means provided to vary setting of THERMOSTATS

Battery housings from which gases can escape

HAZARD ventilated to minimize RISK of

during charging or discharging likely to result in a

accumulation and ignition as verified by review of design and RISK MANAGEMENT FILE.....

circuiting of battery when this could result in a HAZARDOUS SITUATION as verified by

examination of design and RISK MANAGEMENT

Means provided to prevent incorrect connection of

design when it could result in an unacceptable RISK as verified by review of design:

Lithium batteries that could become a HAZARD

complied with appropriate tests of IEC 60086-4

Tests of IEC 60086-4 waived on the lithium battery

A properly RATED protective device provided

excessive currents when (in case of a short circuit) layout of internal wiring, cross-sectional area, rating of connected components can result in a fire:

Protective device has adequate breaking capacity

Justification for OVER-CURRENT RELEASES or

EQUIPMENT is ready for NORMAL USE, except

when apparent to OPERATOR from normal operating position, and marking of 7.4.1 are

within INTERNAL ELECTRICAL POWER SOURCE to protect against fire caused by

to interrupt the maximum fault current

FUSE exclusion is included in RISK

Indicator lights provided to indicate ME

MANAGEMENT FILE

based on examination of design

15.4.3

15.4.3.1

15.4.3.2

15.4.3.3

15.4.3.4

15.4.3.5

15.4.4

Batteries

FILE

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	insufficient for this purpose:		
	An additional indicator light provided on ME EQUIPMENT with a stand-by state or a warm-up state exceeding 15 s, except when apparent to OPERATOR from normal operating position	No stand-by or warm-up state.	N/A
	Indicator lights provided on ME EQUIPMENT incorporating non-luminous heaters to indicate heaters are operational when a HAZARDOUS SITUATION could exist, except when apparent to OPERATOR from normal operating position		N/A
	Requirement not applied to heated stylus-pens for recording purposes		N/A
	Indicator lights provided on ME EQUIPMENT to indicate an output exists where an accidental or prolonged operation of output circuit could constitute a HAZARDOUS SITUATION		N/A
	Colours of indicator lights complied with 7.8.1		N/A
	Charging mode visibly indicated in ME EQUIPMENT incorporating a means for charging an INTERNAL ELECTRICAL POWER SOURCE		N/A
15.4.5	RISKS associated with pre-set controls addressed in RISK MANAGEMENT PROCESS when applicable as verified by review of RISK MANAGEMENT FILE	No pre-set controls function.	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 up during NORMAL USE	No actuating parts.	N/A
	b) Indication of scales (e.g., "on" "off" positions, etc.) always corresponds to position of controls with adjustment that can result in a HAZARDOUS SITUATION for PATIENT or OPERATOR while ME EQUIPMENT is in use		N/A
	c) Incorrect connection of indicating device to relevant component prevented by adequate construction when it could be separated without use of a TOOL		N/A
	When torque values per Table 30 applied between control knob and shaft of rotating controls for not less than 2 s, 10 times in each direction, knobs did not rotate		N/A
	Tests conducted by applying an axial force of 60 N for electrical components and 100 N for other components for 1 min when an axial pull was		N/A

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	required in NORMAL USE with no unacceptable RISK:		
15.4.6.2	Stops of adequate mechanical strength provided on rotating/ movable parts of controls of ME EQUIPMENT where necessary to prevent an unexpected change from max to min, or vice-versa, of the controlled parameter when this could cause a HAZARDOUS SITUATION		N/A
	Torque values in Table 30 applied 10 times in each direction to rotating controls for 2 sec:		N/A
	Application of an axial force of 60 N for electrical components and 100 N for other components to rotating or movable parts of controls for 1 min when an axial pull was required in NORMAL USE:		N/A
15.4.7	Cord-connected HAND-HELD and foot-operated con	ntrol 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 for 1 min applied over an area of 30 mm diameter in its position of NORMAL USE with no damage to device causing an unacceptable RISK		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 IPX1 & complies with tests of IEC 60529 (IP Code):		N/A
	b) ENCLOSURE of foot operated control devices containing electrical circuits is at least IPX6 and complies with IEC 60529 if in NORMAL USE liquids are likely to be found (IP Code):		N/A
	Probability of occurrence estimated as part of RISK MANAGEMENT PROCESS		N/A
15.4.8	Aluminum wires less than 16 mm2 in cross- sectional area are not used	No Aluminum wires used.	N/A
15.4.9	a) Oil container in PORTABLE ME EQUIPMENT allows for expansion of oil and is adequately sealed to prevent loss of oil in any position	No Oil container.	N/A
	b) Oil containers in MOBILE ME EQUIPMENT sealed to prevent loss of oil during transport		N/A

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	A pressure-release device operating during NORMAL USE is, optionally, 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 EQUIP providing separation in accordance with 8.5	MENT and transformers	N/A
15.5.1	Overheating		N/A
15.5.1.1	Transformers of ME EQUIPMENT are protected against overheating in the event of short circuit or overload of output windings and comply with this Clause and tests of 15.5.1.2 - 3		N/A
	During tests, windings did not open, no HAZARDOUS SITUATION occurred, and maximum temperatures of windings did not exceed values in Table 31		N/A
	Dielectric strength test of 8.8.3 conducted on transformer after short circuit and overload tests .:		N/A
15.5.1.2	Transformer output winding short circuited, and test continued until protective device operated or THERMAL STABILITY achieved:		N/A
	Short circuit applied directly across output windings for transformers not tested according to 5X frequency and 5X voltage test of 15.5.2		N/A
15.5.1.3	Multiple overload tests conducted on windings with more than one protective device to evaluate worst-case NORMAL USE loading and protection:		N/A
15.5.2	Transformer windings provided with adequate insulation to prevent internal short-circuits that could cause overheating which could result in a HAZARDOUS SITUATION		N/A
	Dielectric strength tests were conducted in accordance with requirements of this clause with no breakdown of insulation system and no detectable deterioration of transformer:		N/A
15.5.3	Transformers forming MEANS OF PROTECTION as required by 8.5 comply with IEC 61558-1:1997, Clause 5.12		N/A

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16	ME SYSTEMS	N/A
16.1	After installation or subsequent modification, ME SYSTEM didn't result in an unacceptable RISK clause should be evaluated product.	
	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, optionally, used by MANUFACTURER of an ME SYSTEM reconfigurable by RESPONSIBLE ORGANIZATION or OPERATOR to determine configurations with highest RISKS and measures to ensure any configuration of ME SYSTEM will not present unacceptable RISKS	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
	ACCOMPANYING DOCUMENTS are, optionally, provided in electronic format (e.g. electronic file format or CD ROM) and ME SYSTEM is capable of	N/A

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displaying or printing these documents	
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	N/A

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	EQUIPMENT is intended to be supplied via a MULTIPLE socket-OUTLET with a separating transformer		
	 an explanation indicating RISKS of connecting any EQUIPMENT supplied as a PART of ME SYSTEM to MULTIPLE socket-OUTLET 		N/A
	 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 shall be 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
16.4	Parts of non-ME EQUIPMENT in PATIENT ENVIRONMENT subject to contact by OPERATOR during maintenance, calibration, after removal of covers, connectors, etc., without use of a TOOL operated at a voltage ≤ voltage in 8.4.2 c) supplied from a source separated from SUPPLY MAINS by two MEANS OF OPERATOR PROTECTION		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 appropriate for highest voltage occurring across SEPARATION DEVICE during a fault condition		N/A
	WORKING VOLTAGE was highest voltage across SEPARATION DEVICE during a fault condition, but not less than MAXIMUM MAINS VOLTAGE (V):		N/A

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16.6	LEAKAGE CURRENTS	N/A
16.6.1	TOUCH CURRENT in NORMAL CONDITION, from or between parts of ME SYSTEM within the PATIENT ENVIRONMENT, did not exceed 100 uA:	N/A
	TOUCH CURRENT did not exceed 500 uA in event of interruption of any non-PERMANENTLY INSTALLED PROTECTIVE EARTH CONDUCTOR, from or between parts of ME SYSTEM within PATIENT ENVIRONMENT:	N/A
16.6.2	Current in PROTECTIVE EARTH CONDUCTOR of MULTIPLE SOCKET-OUTLET did not exceed 5 mA:	N/A
16.6.3	PATIENT LEAKAGE CURRENT and total PATIENT LEAKAGE CURRENT of ME SYSTEM in NORMAL CONDITION did not exceed values specified for ME EQUIPMENT in Tables 3 and 4 :	N/A
	Measurements made using a device as in clause 8.7.4.4	N/A
16.7	ME SYSTEM complied with applicable requirements of Clause 9 when a MECHANICAL HAZARD existed:	N/A
16.8	Interruption and restoration of relevant power connections of ME SYSTEM one at a time and all connections simultaneously did not result in a HAZARDOUS SITUATION other than interruption of its intended function	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 a HAZARDOUS SITUATION could otherwise exist . :	N/A
	- Connectors complied with Clause 15.4.1	N/A
	- plugs for connection of PATIENT leads 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 hazardous SITUATION could result	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	N/A

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 specified in IEC/TR 60083, or	
- MULTIPLE socket-OUTLET is supplied via a separating transformer	N/A
b) - MULTIPLE SOCKET-OUTLET marked with safety sign 2 of Table D.2 (i.e., safety sign ISO 7010-W001) 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
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, except total impedance for ME SYSTEM was up to 400 m, or higher when conditions of 8.6.4 b) met (m)	N/A
- ENCLOSURE complied with 8.4.2 d)	N/A
- MAINS TERMINAL DEVICES and wiring complied with 8.11.4, when applicable	N/A
- RATINGS of components are not in conflict with conditions of use	N/A
- electrical TERMINALS and connectors of MULTIPLE socket-outlets prevent incorrect connection of accessible connectors removable without a TOOL	N/A
- POWER SUPPLY CORD complied with 8.11.3	N/A
d) Additional requirements applied when MULTIPLE SOCKET-OUTLET combined with a separating transformer:	N/A
- Separating transformer complied with IEC 61558- 2-1, except requirements of maximum RATED output power of 1 kVA and degree of protection	N/A

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	IPX4 were not applied:	
	- 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	Removal of any single item of equipment in ME SYSTEM will not interrupt the protective earthing of any other part without simultaneous disconnection of electrical supply to that part	N/A
	Additional PROTECTIVE EARTH CONDUCTORS can be detachable only by use of a TOOL	N/A
16.9.2.3	Conductors connecting different items within an ME SYSTEM protected against mechanical damage	N/A

17	ELECTROMAGNETIC COMPATIBILITY OF ME EQUIPMENT AND ME SYSTEMS	N/A
	RISKS associated with items addressed in RISK MANAGEMENT PROCESS as confirmed by review	N/A
	- electromagnetic phenomena at locations where ME EQUIPMENT or ME SYSTEM is to be used as stated in ACCOMPANYING DOCUMENTS:	N/A
	- introduction of electromagnetic phenomena into ENVIRONMENT by ME EQUIPMENT or ME SYSTEM that might degrade performance of other devices, electrical EQUIPMENT, and systems	N/A

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G	PROTECTION AGAINST HAZARDS OF IGNITION ANESTHETIC MIXTURES	OF FLAMMABLE	N/A
G.2	Locations and basic requirements		N/A
G.2.1	Parts of CATEGORY APG ME EQUIPMENT in which a FLAMMABLE ANESTHETIC MIXTURE WITH AIR occurs are CATEGORY AP or APG ME EQUIPMENT and complied with G.3, G.4, and G.5	Equipment not suitable for use in the presence of FLAMMABLE ANESTHETIC MIXTURES.	N/A
G.2.2	FLAMMABLE AESTHETIC MIXTURE WITH AIR occurring due to a leakage or discharge of a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN or NITROUS OXIDE from an ENCLOSURE considered 5 to 25 cm from point of occurrence		N/A
G.2.3	A FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN or NITROUS OXIDE contained in a completely / partly enclosed ME EQUIPMENT part and in PATIENT'S respiratory tract 5 cm from an ENCLOSURE part where leakage or discharge occurs		N/A
G.2.4	ME EQUIPMENT or parts thereof specified for use with FLAMMABLE AESTHETIC MIXTURE WITH AIR (in a location as in G.2.2) are CATEGORY AP or APG ME EQUIPMENT and 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 (location per G.2.2) are CATEGORY APG ME EQUIPMENT and comply with G.4 and G.6		N/A
	ME EQUIPMENT in G.2.3 to G.2.5 met appropriate tests of G.3-G.5 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. with a green-coloured band 2 cm wide with letters "APG" according to symbol 23 in Table D.1		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
	Marking complied with tests and criteria of 7.1.2 and 7.1.3		N/A

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G.3.2	CATEGORY AP ME EQUIPMENT prominently marked, with a green-coloured circle 2 cm in diameter, with characters "AP" according to symbol 22 in Table D.1		N/A	
	Marking is as large as possible for the particular case		N/A	
	When above marking not possible, the relevant information included in instructions for use:		N/A	
	Marking complied with tests and criteria of 7.1.2 and 7.1.3		N/A	
G.3.3	The marking according to G.3.2 and G.3.3 placed on major part of ME EQUIPMENT for CATEGORY AP or APG parts, and not repeated on detachable parts that can only be used with the marked EQUIPMENT		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 between points of POWER SUPPLY CORD connection are according to Table 12 for one MEANS OF PATIENT PROTECTION		N/A	
	b) Connections, except those in circuits described in G.5.3 and G.6.3, protected against accidental disconnection in NORMAL USE or connection and disconnection can be performed only with a TOOL		N/A	
	c) CATEGORY AP and APG not provided with a DETACHABLE POWER SUPPLY CORD, except when circuit complied with G.5.3 and G.6.3		N/A	
G.4.2	Construction details		N/A	
	a) Opening of an ENCLOSURE providing protection against penetration of gases or vapours into ME EQUIPMENT or its parts possible only with a TOOL		N/A	
	b) ENCLOSURE complies with requirements to minimize arcing and sparking due to penetration of foreign objects		N/A	

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	 no openings on top covers of ENCLOSURE, except for openings for controls covered by control knobs 		N/A
	 openings in side-covers prevented penetration of a solid cylindrical test rod of 4 mm in diameter applied in all possible directions without appreciable force 		N/A
	 openings in base plates prevented penetration of a solid cylindrical test rod of 12 mm in diameter applied in all directions without appreciable force 		N/A
	c) Short circuiting conductor(s) to a conductive part without presence of explosive gasses where insulation may contact a part containing a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN or NITROUS OXIDE, ignitable gases alone, or oxygen, did not result in loss of integrity of the part, an unacceptable temperature, or other HAZARD		N/A
G.4.3	 a) Electrostatic charges prevented on CATEGORY AP and APG ME EQUIPMENT by a combination of appropriate measures 		N/A
	- Use of antistatic materials with a limited electrical resistance as specified in G.4.3 b):		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 of medical room		N/A
	b) Electrical resistance limits of aesthetic tubing, mattresses and pads, castor tires, and other antistatic material complied with ISO 2882 based on measurements according to ISO 1853, ISO 2878 and ISO 23529		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 (inclusive)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
	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	ME EQUIPMENT, its parts, and components in contact with gas mixtures in NORMAL USE and CONDITIONS not producing sparks and not resulting in surface temperatures above 150 °C in case of restricted or 200 °C in case of unrestricted vertical air circulation measured at 25 °C comply with G.5.1		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 Umax and Imax occurring in their circuits, and complied as follows:		N/A	
	Measured Umax ≤ UzR with IzR as in Fig. G.1:		N/A	
	Measured Umax ≤ Uc with Cmax as in Fig. G.2:		N/A	
	Measured Imax ≤ IzR with UzR as in Fig G.1:		N/A	
	Measured Imax ≤ IzL with Lmax and a Umax ≤ 24 V as in Fig G.3:		N/A	
	- Combinations of currents and corresponding voltages within the limitations IzR.UzR ≤ 50 W extrapolated from Fig G.1		N/A	
	No extrapolation made for voltages above 42 V		N/A	
	 Combinations of capacitances and corresponding voltages within limitations of C/2U2 1.2 mJ extrapolated from Fig G.2 		N/A	
	No extrapolation made for voltages above 242V		N/A	
	Umax, additionally, determined using actual resistance R when the equivalent resistance R was less than 8000		N/A	
	- Combinations of currents and corresponding inductances within limitations L/2I2 0.3 mJ extrapolated from Fig G.3		N/A	
	No extrapolation made for inductances larger than 900 mH		N/A	
	 Umax was the highest supply voltage occurring in circuit under investigation with sparking contact open, taking into consideration MAINS VOLTAGE 		N/A	

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Clause	Requirement + Test	Result - Remark	Verdict	
	variations in 4.10			
	- Imax was the highest current flowing in circuit under investigation with sparking contact closed, taking into consideration MAINS VOLTAGE variations required in 4.10		N/A	
	- Cmax and Lmax 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 Umax and Imax, 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 Umax, Imax, R, Lmax, and Cmax determined with application of Figs G.1-G.3		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 that might have penetrated into ENCLOSURE of ME EQUIPMENT or part removed by ventilation before EQUIPMENT energized, and penetration of such mixtures during operation was prevented by maintenance of overpressure by means of air without flammable gases, or by physiologically acceptable inert gas (e.g., nitrogen)		N/A	
	b) Overpressure inside ENCLOSURE was 75 Pa, min., in NORMAL CONDITION (Pa):		N/A	
	Overpressure maintained at the site of potential ignition even when air or inert gas could escape through openings in ENCLOSURE necessary for normal operation of ME EQUIPMENT or its parts		N/A	
	ME EQUIPMENT could be energized only after the required minimum overpressure was present long enough to ventilate the ENCLOSURE so that the displaced volume of air or inert gas was at least five times the volume of ENCLOSURE		N/A	
	ME EQUIPMENT energized at will or repeatedly when overpressure was continuously present		N/A	

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	IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict	
	c) Ignition sources de-energized automatically by means used where G.4 does not apply, or complied with G.5 when during operation overpressure dropped below 50 Pa (Pa)		N/A	
	d) External surface of ENCLOSURE in which internal overpressure was maintained did not exceed 150 °C in 25 °C ambient under NORMAL USE and CONDITION (°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 when it was surrounded by a FLAMMABLE AESTHETIC MIXTURE WITH AIR of a high concentration for at least 30 min without any pressure difference inside ENCLOSURE		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: List of Critical Components	N/A	
	c) Gas-tightness of ENCLOSURE containing inlets for flexible cords maintained when the cords were stressed by bending or pulling		N/A	
	Cords are fitted with adequate anchorages to limit stresses		N/A	
	After the test in G.5.4 b), an internal overpressure of 400 Pa was created and 30 pulls of the value in Table G.1 applied to each flexible cord in axial direction of cord inlet and in the least favourable direction for 1 s		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 com	ponents thereof	N/A	
G.6.1	ME EQUIPMENT, its parts, and components did not ignite FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE under		N/A	

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Clause	Requirement + Test	Result - Remark	Verdict

	NORMAL USE and SINGLE FAULT CONDITION	
	ME EQUIPMENT, its parts, and components not complying with G.6.3 subjected to a CONTINUOUS OPERATION test after attaining thermal steady state (max. 3 h) over a period of 10 min in a 12.2 % ± 0.4 ether by volume/oxygen mixture	
G.6.2	Parts and components of CATEGORY APG ME EQUIPMENT operating in a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE supplied from a source isolated from earth by insulation equal to one MEANS OF PATIENT PROTECTION and from electrical parts by insulation twice the MEANS OF PATIENT PROTECTION	N/A
G.6.3	Test of G.6.1 waived when the following requirements were met in NORMAL USE and under NORMAL and SINGLE FAULT CONDITIONS:	N/A
	a) no sparks produced and temperatures did not exceed 90 °C, or	N/A
	b) a temperature limit of 90 °C not exceeded, sparks produced in NORMAL USE, and SINGLE FAULT CONDITIONS, except Umax and Imax occurring in their circuits complied with requirements, taking Cmax and Lmax into consideration:	N/A
	Measured Umax ≤ UzR with IzR as in Fig. G.4:	N/A
	Measured Umax ≤ UzC with Cmax as in Fig. G.5.:	N/A
	Measured Imax ≤ IzR with UzR as in Fig G.4:	N/A
	Measured Imax ≤ IzL with Lmax and a Umax ≤ 24 V as in Fig G.6:	N/A
	- Extrapolation from Figs G.4, G.5, and G.6 was limited to areas indicated	N/A
	- Umax was the highest no-load voltage occurring in the circuit under investigation, taking into consideration mains voltage variations as in 4.10	N/A
	- Imax was the highest current flowing in the circuit under investigation, taking into account MAINS VOLTAGE variations as in 4.10	N/A
	- Cmax and Lmax are values occurring in relevant circuit	N/A
	- Umax additionally determined with actual resistance R when equivalent resistance R in Fig	N/A

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	G.5 was less than 8000		
	- peak value taken into consideration when a.c. supplied		N/A
	- an equivalent circuit calculated to determine max capacitance, inductance, and Umax and Imax, 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
	Above requirement not applied to transformers complying with this standard		N/A
	Above requirement not applied to wire-wound current-limiting resistors provided with a protection against unwinding of the wire in case of rupture		N/A
	Compliance verified by examination of CATEGORY APG ME EQUIPMENT, parts, and components, or		N/A
	Temperature measurements made in accordance with 11.1, or		N/A
	Umax, Imax, R, Lmax and Cmax determined together with application of Figs G.4-G.6:		N/A
	Alternatively, compliance verified by comparison with design data:		N/A
G.6.4	ME EQUIPMENT, its parts, and components heating a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE provided with a non-SELF-RESETTING THERMAL CUTOUT and complied with 15.4.2.1		N/A
	Current-carrying part of heating element is not in direct contact with FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE		N/A
3.7	Test apparatus for flammable mixtures		N/A
	Test apparatus used was in accordance with this Clause and Fig G.7	Equipment is not suitable for use in presence of Flammable Aesthetic mixture.	N/A

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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 covering round winding wires between 0.05 mm and 5.00 mm diameters	N/A	
L.2	Wire construction	N/A	
	Overlap of layers when wire is insulated with two or more spirally wrapped layers of tape is adequate to ensure continued overlap during manufacture of wound component	N/A	
	Layers of spirally wrapped wire insulation are sufficiently secured to maintain the overlap	N/A	
3	Type Test	N/A	
	The wire subjected to tests of L.3.1 to L.3.4 at a temperature and a relative humidity specified	N/A	
	Temperature (°C)	-	
	Humidity (%):	-	
3.1	Dielectric strength	N/A	
	Dielectric strength test of Clause 8.8.3 for the appropriate type and number of MOP(s) conducted by preparing the sample according to IEC 60851-5:1996, Clause 4.4.1 for a twisted pair with test voltages at least twice Tables 6 & 7, but not less than below with no breakdown:	N/A	
	- 3000 V for BASIC and SUPPLEMENTARY INSULATION (V):	N/A	
	- 6000 V for REINFORCED INSULATION (V):	N/A	
3.2	Flexibility and adherence	N/A	
	Sample subjected to flexibility and adherence test 8 of IEC 60851-3:1996, clause 5.1.1, using mandrel diameters of Table L.1	N/A	
	Sample examined according to IEC 60851-3: 1997, clause 5.1.1.4, followed by dielectric test of clause 8.8.3, except test voltage applied between wire and mandrel with no breakdown	N/A	
	Test voltage was at least the voltage in Tables 6 and 7but not less than the following:	N/A	
	- 1500 V for BASIC and SUPPLEMENTARY INSULATION (V):	N/A	

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	- 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, except test voltage applied between the wire and mandrel		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/mm2):		N/A
	Dielectric strength test conducted at room temperature after removal from the oven		N/A
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/mm2)		N/A
4	Tests during manufacture		N/A
4.1	9	To be evaluated in end product.	N/A
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)		N/A
	- 3000 V r.m.s. or 4200 V peak for REINFORCED		N/A

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	INSULATION (V):				
L.4.3	Sampling tests conducted using twisted pair samples (IEC 60851-5:1996, clause 4.4.1)		N/A		
	Minimum breakdown test voltage at least twice the voltage in Tables 6 and 7 but not less than:		N/A		
	- 3000 V r.m.s. or 4200 V peak for BASIC and SUPPLEMENTARY INSULATION		N/A		

N/A

- 6000 V r.m.s. or 8400 V peak for REINFORCED INSULATION

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Enclosure

National Differences

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	IEC 60601		
SubClause	Difference + Test	Result - Remark	Verdict

C	anada - Differences to IEC 60601-1: 2005 + CORR. 1	(2006) + CORR. 2 (2007)	
1	Scope, object and related documents		Pass
1.1	Scope		Pass
1.1	This standard applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE of MEDICAL ELECTRICAL EQUIPMENT and MEDICAL ELECTRICAL SYSTEMS designed to be installed in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.1; CAN/CSA-C22.2 No. 0; and CAN/CSA-Z32.		Pass
1.1	NOTE 1A: In the IEC 60601 standards series adopted for use in Canada, the Canadian-particular standards may modify, replace, or delete requirements contained in this standard as appropriate for the particular ME EQUIPMENT and ME SYSTEMS under consideration, and may add other BASIC SAFETY and ESSENTIAL PERFORMANCE requirements.		Pass
1.3	Collateral standards	Not evaluated with Collateral standards.	N/A
1.3	Applicable Canadian collateral standards become normative at the date of their publication and apply together with this standard.		N/A
1.3	NOTE 1: When evaluating compliance with CAN/CSA-C22.2 No. 60601-1, it is permissible to assess independently compliance with the adopted Canadian collateral standards.		N/A
1.4	Particular standards	Not evaluated with Particular standards.	N/A
1.4	A requirement of a Canadian-particular safety standard takes precedence over this standard.		N/A
3	Terminology and definitions		Pass
3.41	HIGH VOLTAGE		N/A
3.41	any voltage above 750 V, 1 050 V peak, as defined in the Canadian Electrical Code (CEC), Part I	At the begining at the report.	N/A
4.8	a) the applicable safety requirements of a relevant CSA, IEC, or ISO standard; or		Pass
4.8	NOTE 1: For the components, it is not necessary to carry out identical or equivalent tests already performed to check compliance with the component standard.		Pass

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SubClause	Difference + Test	Result - Remark	Verdict

4.8	b) where there is no relevant CSA, IEC, or ISO standard, the requirements of this standard have to be applied		Pass
4.8	NOTE 2: If there are neither requirements in this standard nor in a CSA, 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.		Pass
4.10.2	and shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.1:	CSA C22.2 No.60601-1-08 was applied for this device.	Pass
7.7.1	and shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.1		Pass
7.7.1	A PROTECTIVE EARTH CONDUCTOR or a PROTECTIVE EARTH CONNECTION or insulation shall be identified by either green or green and yellow colour. Colours of neutral and POWER SUPPLY CORD conductors shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.2 No. 21, and CSA C22.2 No. 49		Pass
7.7.2	and shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.1		Pass
7.7.2	A PROTECTIVE EARTH CONDUCTOR or a PROTECTIVE EARTH CONNECTION or insulation shall be identified by either green or green and yellow colour. Colours of neutral and POWER SUPPLY CORD conductors shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.2 No. 21, and CSA C22.2 No. 49		Pass
7.7.3	and shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.1		N/A
7.7.3	A PROTECTIVE EARTH CONDUCTOR or a PROTECTIVE EARTH CONNECTION or insulation shall be identified by either green or green and yellow colour. Colours of neutral and POWER SUPPLY CORD conductors shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.2 No. 21, and CSA C22.2 No. 49	No PE	N/A
7.7.4	and shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.1		N/A
7.7.4	A PROTECTIVE EARTH CONDUCTOR or a PROTECTIVE EARTH CONNECTION or insulation shall be identified by either green or green and		N/A

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SubClause	Difference + Test	Result - Remark	Verdict

	yellow colour. Colours of neutral and POWER SUPPLY CORD conductors shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.2 No. 21, and CSA C22.2 No. 49	
7.7.5	and shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.1	N/A
7.7.5	A PROTECTIVE EARTH CONDUCTOR or a PROTECTIVE EARTH CONNECTION or insulation shall be identified by either green or green and yellow colour. Colours of neutral and POWER SUPPLY CORD conductors shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.2 No. 21, and CSA C22.2 No. 49	N/A
8.7.3	Allowable values shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.1.	Pass
8.11.3.2	a) The MAINS PLUG of non-PERMANENTLY INSTALLED EQUIPMENT shall be	N/A
8.11.3.2	i) if molded-on type, hospital grade mains plug complying with CSA C22.2 No. 21;:	N/A
8.11.3.2	ii) hospital grade disassembly attachment plug type complying with CSA C22.2 No. 42; or	N/A
8.11.3.2	iii) Class II equipment having fuses on the line side/sides and neutral and may use a non-polarized attachment plug or a polarized attachment plug - CSA configuration type 1-15P shall be required and shall meet 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 shall be 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:	
8.11.3.2	1- the centre contact of an Edison base lampholder;	N/A
8.11.3.2	2- a single pole switch;	N/A
8.11.3.2	3- an automatic control with a marked off position;	N/A
8.11.3.2	4- a solitary fuse/fuse holder; or	N/A
8.11.3.2	5- any other single pole overcurrent protective device	N/A
8.11.3.2	b) Detachable POWER SUPPLY CORD for non-PERMANENTLY INSTALLED EQUIPMENT (cord-connected equipment) shall be of a type that	N/A
8.11.3.2	i) can be shown to be unlikely to become detached	N/A

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	IEC 60601		
SubClause	Difference + Test	Result - Remark	Verdict

	accidentally, unless it can be shown that detachment will not constitute a safety HAZARD to a PATIENT or OPERATOR;		
8.11.3.2	ii) can be shown that the impedance of the earth (ground) circuit contacts will not constitute a safety HAZARD to a PATIENT or OPERATOR; and		N/A
8.11.3.2	iii) 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
8.11.3.2	c) A detachable POWER SUPPLY CORD shall		N/A
8.11.3.2	i) comply with the applicable requirements of CSA C22.2 No. 21; and:		N/A
8.11.3.2	ii) not be smaller than No. 18 AWG, and the mechanical serviceability shall be not less than		N/A
8.11.3.2	Type SJ or equivalent for mobile or exposed to abuse ME EQUIPMENT; and		N/A
8.11.3.2	2) Type SV or equivalent for ME EQUIPMENT not exposed to abuse (or Type HPN if required because of temperature)		N/A
8.11.3.2	NOTE 1A: See CSA C22.2 No. 49 for requirements on the cord types mentioned in Sub-item 2).		N/A
8.11.3.2	d) Power supply cords shall meet the requirements of the Canadian Electrical Code, Part I, as applicable	See critical component list.	N/A
8.11.3.2	Connecting cords between equipment parts shall meet the requirements of the Canadian Electrical Code, Part I, as applicable	See critical component list.	N/A
8.11.5	Mains fuses and OVER-CURRENT RELEASES shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.1:	Fuses meet CSA requirement.	Pass
9.7.5	Pressure vessels shall comply with the requirements of CSA B51, as applicable	No Pressure vessels	N/A
9.7.7	A pressure-relief device shall also comply as applicable to the requirements of ASME PTC 25 or equivalent Canadian requirements:	No pressure-relief device	N/A
15.4.1	bA) The point of connection of gas cylinders to EQUIPMENT shall be gas specific and clearly identified so that errors are avoided when a replacement is made. Medical gas inlet connectors on EQUIPMENT shall be	No gas cylinders connection	N/A
	•	,	

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SubClause	Difference + Test		Result - Remark	Verdict

15.4.1	i) gas specific, yoke type, or nut and nipple type valve connections complying with CGA V-1 for pressures over 1 380 kPa (200 psi); or:		N/A
15.4.1	ii) DISS type complying with CGA V-5 for pressures 1 380 kPa (200 psi) or less and configured to permit the supply of medical gases from low-pressure connecting assemblies complying with CAN/CSA-Z5359		N/A
15.4.1	NOTE 1A: Users of this standard should consult the CSA Z305 series of standards, CAN/CSA-Z9170-1, CAN/CSA-Z9170-2, 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.		N/A
15.4.8	Internal wiring of ME EQUIPMENT shall be in accordance with the Canadian Electrical Code (CEC), Part I, CSA C22.1:	See appended TABLE: List of Critical Components	Pass
16.1	General requirements for the ME SYSTEMS	No ME system, to be evaluated in end product.	N/A
16.1	An ME SYSTEM shall provide		N/A
16.1	- within the PATIENT ENVIRONMENT, the level of safety equivalent to ME EQUIPMENT complying with this standard; and		N/A
16.1	- outside the PATIENT ENVIRONMENT, the level of safety equivalent to equipment complying with their respective CSA, IEC, or ISO safety standards		N/A
16.1	Non-ME EQUIPMENT, when used in an ME SYSTEM, shall comply with CSA, IEC, or ISO safety standards that are relevant to that equipment.		N/A
16.9.2.1	c) The MULTIPLE SOCKET-OUTLET shall comply with the requirements of CSA C22.2 No. 42, CSA C22.2 No. 49, and the following requirements:	No multiple socket outlets used.	N/A
16.9.2.1	- The separating transformer shall comply with the requirements of CAN/CSA-E61558-2-1 with a rated output not exceeding		N/A
16.9.2.1	- 1 kVA for single-phase transformers; and		N/A
16.9.2.1	- 5 kVA for polyphase transformers		N/A
16.9.2.1	The separating transformer shall also have a degree of protection not exceeding IPX4.		N/A

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SubClause Difference + Test	Result - Remark	Verdict

Į	JSA - Differences to IEC 60601-1: 2005 + CORR. 1 (2	006) + CORR. 2 (2007)	
4.8	Replacement: where there was no relevant IEC/ISO standard, the relevant US ANSI standard applied		Pass
4.8	- when no relevant US ANSI standard existed, the requirements of this standard applied		Pass
4.10.2	Replacement: Rated voltage not exceeding 250V dc or single phase ac. or 600V poly-phase ac for me equipment and me systems up to 4kVA	Rated voltage: 19Vdc	Pass
4.10.2	Rated voltage not exceeding 600 V for all other me equipment and me systems		N/A
8.2	Addition: All fixed me equipment & permanently installed me equipment are class I me equipment	Not fixed or permanently installed equipment.	N/A
8.7.3	Earth leakage current values are not higher than the stated values	See appended Table 8.7	Pass
8.7.3	5 mA in normal condition		N/A
8.7.3	10 mA in single fault condition		N/A
8.11	Addition: permanently connected me equipment provided with field wiring provision in accordance with NEC	Not Permanently connected equipment.	N/A
8.11	Installation of connecting cords between equipment parts comply with NEC		N/A
8.11	Cable used as external interconnection between units		N/A
8.11	1) Exposed to abuse: Type SJT, SJTO, SJO, ST, SO, STO, or equivalent, or similar multiple-conductor appliance-wiring material,		N/A
8.11	2) Not exposed to abuse: The cable was as in item 1) above, or		N/A
8.11	i) Type SPT-2, SP-2, or SPE-2, or equivalent		N/A
8.11	ii) Type SVr, SVRO, SVE, or equivalent or similar multiple-conductor appliance wiring material,		N/A
8.11	iii) An assembly of insulated wires each with a nominal insulation thickness of 0.8 mm (1/32 inch) or more,		N/A
8.11	- enclosed in acceptable insulating tubing having a nominal wall thickness of 0.8 mm (1/32 inch) or more		N/A
8.11	Receptacles provided as part of me equipment and me systems for use in the patient care areas of pediatric wards, rooms, or areas are Listed tamper		N/A

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	IEC 60601		
SubClause	Difference + Test	Result - Remark	Verdict

	resistant		
8.11	- or employ a Listed tamper resistant cover in accordance with NEC		N/A
8.11.3.2	Addition: The flexible cord is a type acceptable for the particular application,		N/A
8.11.3.2	- and it is acceptable for use at a voltage not less than the rated voltage of the appliance	See critical component list.	N/A
8.11.3.2	- and has an ampacity as in NEC, not less than the current rating of the appliance	See critical component list.	N/A

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			IEC 60004			
Clause	Requirement + Tes	st	IEC 60601	Result - Ren	nark	Verdict
	<u> </u>			<u>I</u>		
4.2	RM TABLE: Risk	Management	Process for ME E	quipment or	ME Systems	N/A
Clause of ISO 14971		ocument Ref. in RMF Document No. and paragraph) Result - Remarks			Verdict	
4.3	TABLE: Essentia	Performance	•			N/A
List of Esse functions	ential Performance Manufacturer's document number reference or reference from this standard or collateral or particular standard(s)					
	tary Information: Es t in an unacceptable		nance is performan	ce, the abser	ce or degradation	n of which,
4.3	RM TABLE: Esse	ntial Performa	ance			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph) Result - Remarks				Verdict	
	,					
4.5	RM TABLE: Equiv	/alent Safety t	for ME Equipment	of ME Syste	em	N/A
Clause of ISO 14971	Document Ref. in I (Document No. an		Result - Remarks			Verdict
4.6	RM TABLE: ME E	quipment or s	system parts cont	acting the pa	atient	N/A
Clause of ISO 14971	Document Ref. in I (Document No. an		Result - Remarks			Verdict
4.7	RM TABLE: Singl	e Fault Condi	tion for ME Equip	ment		N/A
Clause of ISO 14971	Document Ref. in I (Document No. an		Result - Remarks			Verdict
4.8	RM TABLE: Com	oonents of ME	Equipment			N/A
Clause of ISO 14971	Document Ref. in I (Document No. an		Result - Remarks			Verdict

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

	4.9	RM TABLE: Use of components with high-integrity characteristics				
- 1		Document Ref. in RMF	Result - Remarks	Verdict		
	150 14971	(Document No. and paragraph)				

4.11	TABLE: Power Input					Pass
Operating	Conditions / Ratings	Voltage (V)	Frequency (Hz)	Current (A)	Power (W or VA)	Power factor (cos φ)
Max normal load / 2.63A		19	N/A	2.53	48	-
Max. normal loaded /2.63A		17.1	N/A	2.71	46.3	-
Max. normal loaded /2.63A		20.9	N/A	2.47	51.6	-
Supplementary information:						
Rating 19	V , 50W Min					

5.1	RM TABLE: Type Tests		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

5.4 a)	RM TABLE: Other Conditions	RM TABLE: Other Conditions		
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict	

5.7	RM TABLE: Humidity precondi	M TABLE: Humidity preconditioning treatment			
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict		

5.9.2	TABLE: Dete	ABLE: Determination of ACCESSIBLE parts		
Location		Determination method (NOTE1) Comments		
Supplementary information:				
NOTE 1 - TI	he determination	on methods are: visual; rigid test finger; j	jointed test finger; test hook.	

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IEC 60601					
Clause	Requirement + Test		Result - Remark	Verdict	

5.9.2.3	RM TABLE: Actuating mechanisms			
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict	

7.1.2	TABLE: Legibility of Marking					
Markings te	sted	Ambient illuminance (lx)	Remarks			

Supplementary information:

Observer, with a visual acuity of 0 on the log Minimum Angle of Resolution (log MAR) scale or 6/6 (20/20), 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 at any point within the base of a cone subtended by an angle of 30° to the axis normal to the centre of the plane of the marking and at a distance of 1 m.

7.1.3	TABLE: Durability of marking test			
Characteristics of the Marking Label tested:			Remarks	
Material of Marking Label :				
Ink/other printing material or process :				
Material (comp	osition) of Warning Label :			
Ink/other printir	ng material or process :			
Other:				

Supplementary information:

Marking rubbed by hand, first for 15 s with a cloth rag soaked with distilled water, then for 15 s with a cloth rag soaked with methylated spirit, and then for 15 s with a cloth rag soaked with isopropyl alcohol.

7.2.2	RM TABLE: Identification			
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict	

7.2.5	RM TABLE: ME EQUIPMENT powered from other equipment				
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict		

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict
7.2.13	RM TABLE: Physiological effect	cts (safety signs a	nd warning)	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
7.2.17	RM TABLE: Protective packagi	ing		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
7.3.3	RM TABLE: Batteries			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
7.3.7	RM TABLE: Supply Terminals			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
7.4.2	RM TABLE: Control devices			NI/A
				N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
		Result - Remarks		
		Result - Remarks		
ISO 14971	(Document No. and paragraph)	Result - Remarks Result - Remarks		Verdict
7.5 Clause of	(Document No. and paragraph) RM TABLE: Safety signs Document Ref. in RMF			Verdict N/A
7.5 Clause of	(Document No. and paragraph) RM TABLE: Safety signs Document Ref. in RMF	Result - Remarks	See Table C.4)	Verdict N/A

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict
7.9.2.4	RM TABLE: Electrical power s	ource		N/A
Clause of	Document Ref. in RMF	Result - Remarks		Verdict
ISO 14971	(Document No. and paragraph)			
				.
7.9.3.2	RM TABLE: Replacement of fu	ses, power supply	y cords, other parts	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
100 11011	(Becament No. and paragraph)			
0.4 5 (4)	DM TABLE For to 1	af must = -41:	locat allocated a local	N1/A
8.1 b(1)	RM TABLE: Fundamental rule interruption of any one power-			N/A
Clause of	Document Ref. in RMF	Result - Remarks		Verdict
ISO 14971	(Document No. and paragraph)			
8.1 b(2)	RM TABLE: Fundamental rule unintended movement of a con	N/A		
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
8.1 b(3)	RM TABLE: Fundamental rule accidental detachment of cond			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
8.2.2	RM TABLE: Connection to an	external d.c. powe	er sources	N/A
Clause of	Document Ref. in RMF	Result - Remarks		Verdict
ISO 14971	(Document No. and paragraph)			
8.3 d	RM TABLE: Requirements of T	ype BF or CF App	olied Parts	N/A
Clause of ISO 14971	Document Ref. in RMF	Result - Remarks		Verdict
130 14971	(Document No. and paragraph)			

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IEC 60601					
Clause	Requirement + Test		Result - Remark	Verdict	

8.4.2	TABLE: Wo	TABLE: Working Voltage / Power Measurement						
Test supply voltage/frequency (V/Hz) (1):								
-	Measured v	Measured values						
Location From/To	Vrms		Peak-to-peak ripple (2)	Power W/VA	Energy (J)	Remarks		

Supplementary Information:

- 1. The input supply voltage to the ME EQUIPMENT shall be the RATED voltage or the voltage within the RATED voltage range which results in the highest measured value. See clause 8.5.4.
- 2. If the d.c. peak-to-peak ripple > 10%, waveform considered as a.c. See clause 8.4.2.2

8.4.2 c	RM TABLE: Accessible parts including applied parts					
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	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								N/A		
Maximum allowable voltage (V):							60	60			
Voltage measured (V)											
Voltage Mea	asured Between:	1	2	3	4	5	6	7	8	9	10
Maximum a	llowable stored charge when	measu	red vo	ltage ex	kceede	d 60 v	(µc):		45		
Calculated	stored charge (µc)										
Voltage Mea	Voltage Measured Between: 1 2 3 4 5 6 7					7	8	9	10		
Supplementary information:											

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	IEC 60601				
Clause	Requirement + Test	Result - Remark	Verdict		
8.4.4	TABLE: Internal capacitive circuits - measur				

capacitors or circuit parts) after de-energizing ME EQUIPMENT						
Maximum allowable residual voltage (V):						
Maximum allowable stored charge when residual voltage exceeded 60 V: 45 μC						
	n of the capacitive circuit (i.e., e capacitor or circuit parts)	Measured residual voltage (V)	Calculated stored charge (µC)	Remarks		
Suppleme	Supplementary information:					

8.5.2.2	RM TABLE: Type B applied parts		N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

8.5.2.3	RM TABLE: PATIENT Leads		N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

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

8.5.5.1b	TABLE: Defibri	ABLE: Defibrillation-proof applied parts - verification of recovery time					
Applied part voltage	with test	Test voltage polarity	Recovery time from documents (s)	Measured recovery time (s)	Remarks		
Supplement	ary information:						

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	IEC 60601				
Clause	Requirement + Test Result - Re	emark	Verdict		
8.5.5.2	TABLE: Defibrillation-Proof Applied Parts or Patient Conne		N/A		
	Defibrillation-Proof Applied Parts - Energy reduction test -r Energy delivered to a 100 ohm load	neasurement of			

Energy delivered to a 100 ohm load					
Test Voltage	e applied to	Measured Energy E1 (mJ)	Measured Energy E2 (mJ)	Energy E1 as % of E2 (%)	
Supplementary information: For compliance: E1 must at least 90% of E2					

E1= Measured energy delivered to 100% with ME Equipment connected;
E2= Measured energy delivered to 100% without ME equipment connected.

8.6.3	RM TABLE: Protective earthing of moving parts		N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

8.6.4	TABLE: Impedance and current-carrying capability of PROTECTIVE EARTH CONNECTIONS					
	EQUIPMENT and measured between parts	Test current (A) /Duration (s)	Voltage drop measured between parts (V)	Maximum calculated impedance (m ohm)	allo	kimum wable edance (m n)
Supplement	ary information:					

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

8.7	TABLE: Leakage current				Pass
Type of leakage current and test condition (including single faults)		Suppl y voltag e (V)	Supply frequency (Hz)	Measu red max. value (µA)	Remarks
Fig. 13 - Ea	arth Leakage (ER)	-	-	-	Maximum allowed values: 5 mA NC; 10 mA SFC
-		-	-	-	-
Fig. 14 - To	ouch Current (TC)	-	-	-	Maximum allowed values: 100 μA NC; 500 μA SFC
NC(S5=0) F	3	264	50/60	16.1	-
SFC(S5=0)	В	264	50/60	14.6	-
NC(S5=1) E	3	264	50/60	16.3	-
SFC(S5=1)	В	264	50/60	5.7	-
NC(S5=0)	A	264	50/60	15.2	-
SFC(S5=0)	A	264	50/60	14.4	-
NC(S5=1)	A	264	50/60	15.1	-
SFC(S5=1)	A	264	50/60	1.2	-
Fig. 15 - Pa	itient 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)
-		-	-	-	-
	atient leakage current with ne F-type applied parts (PM)	-	-	-	Maximum allowed values: Type B: N/A Type BF AP: 5000 μA Type CF AP: 50 μA
-		-	-	-	-
	ntient leakage current with Itage on Signal Input/Output OP)	-	-		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)
-		-	-	-	-
	atient leakage current with Itage on metal Accessible Part	-	-	-	Maximum allowed values: Type B or BF AP: 500 µA Type CF: N/A

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IEC 60601				
Clause	Requirement + Test	Result - Remark	Verdict	

that is not Protectively Earthed				
-	-	-	-	-
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)
-	-	-	-	-
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); 500 μA NC; 1000 μA SFC (a.c.); Type CF AP: 50 μA NC; 100 μA SFC (d.c. or a.c. current)
-	-	-	-	=
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)
-	-	-	-	-
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: 5000μA Type CF: 100 μA
-	-	-	-	-
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
-	-	-	-	-

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

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

PM - Patient leakage current with mains on the applied parts SFC - Single fault condition

MD - Measuring device

8.8.3	function - N	TABLE: Dielectric strength test of solid insulating materials with safety function - MEANS OF OPERATOR PROTECTION (MOOP) / MEANS OF PATIENT PROTECTION (MOPP)					N/A
Insulation u (area from i diagram)		Insulation Type (1 or 2 MOOP/MOPP)	WORKING	WORKING	voltages in V	brea afte	lectric akdown er 1 minute s/No2

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				Pass
	Allowed impression diameter (mm): =<2 mm			-	
	Force (N): 20			-	
Part/material			Test temperature (°C) Impression (mm)		ion diameter
Enclosure/External insulating parts			80 1.2		
Supplementary information:					
-	-				

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IEC 60601					
Clause	Requirement + Test		Result - Remark	Verdict	
8.8.4.1 RM TABLE: Mechanical strength and resistance to heat				N/A	
Clause of	Document Ref. in RMF	Result - Remarks		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				
Specific areas of circuits short-circuited and test conditions		Test in lieu of CREEPAGE DISTANCE or AIR CLEARANCE1	discharge of parts, etc.)?		KS
Supplementary information:					
Note 1: 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
Test Sequence No.	Each test duration and temperature	8.8.3 times 1.6)	after hu precond 5.7 exc	ditioning per Cl. ept for 48 h reakdown:

Supplementary information:

ISO 14971

(Document No. and paragraph)

 $1 \text{ T1} = 10 \,^{\circ}\text{C}$ above the maximum temperature of relevant part determined per 11.1.1, or 85 $^{\circ}\text{C}$, the higher of the two. 10 $^{\circ}\text{C}$ not added to T1 when temperature measured by an embedded thermocouple. Used gradual transition from one temperature to another.

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

8.9.3.4	TABLE: Thermal cycling tests on one sample of cemented joint (see 8.9.3.3)			N/A
Test	Each test duration and temperature	Dielectric test voltage	after hu	ditioning per Cl.
Sequence		(V = Test voltage in	precond	ept for 48 h
No.		8.8.3 times 1.6)	5.7 exc	reakdown:

Supplementary information:

1 T1 = 10 $^{\circ}$ C above the maximum temperature of relevant part determined per 11.1.1, or 85 $^{\circ}$ C, the higher of the two. 10 $^{\circ}$ C not added to T1 when temperature measured by an embedded thermocouple. Used gradual transition from one temperature to another.

8.10.1	RM TABLE: Fixing of components		N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

8.10.2	RM TABLE: Fixing of wiring		N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

8.10.5	RM TABLE: Mechanical protection of wiring		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

8.11.3.5	TABLE: Cord anchorages					N/A
		Mass of equipment (kg)	Pull (N)	Torque (Nm)	Rer	marks
Supplement	ary information:					

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IEC 60601							
Clause	Requirement + Test Result - Remark			mark	Verdict		
8.11.3.6	TABLE: Cord guard					N/A	
Cord under test		Test mass	Measured of	Measured curvature Re			
Supplementary information:							

8.11.5	RM TABLE: Mains fuses and over-current releases		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

9.2.1	RM TABLE: HAZARDS associated with moving parts - General		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

9.2.2.2	TABLE:	TABLE: Measurement of gap "a" according to Table 20 (ISO 13852: 1996)					
Part of body Allowable adult gap, mm Measured adult gap, Allowable children gap1, mm Measured adult gap, Allowable children gap1, mm							
	Supplementary information: 1 In general, gaps for adults used, except when the device is specifically designed for use with children, values for children applied.						

9.2.2.4.3	RM TABLE: Movable guards		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

9.2.2.4.4	RM TABLE: Protective measures		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

9.2.2.5 c)	RM TABLE: Continuous activation		N/A
	Document Ref. in RMF	Result - Remarks	Verdict
ISO 14971	(Document No. and paragraph)		

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			IEC 60601		
Clause	Requirement +	Test	1000001	Result - Remark	Verdict
9.2.2.6	RM TABLE: Sp	peed of movemen	nt(s)		N/A
Clause of ISO 14971	Document Ref. (Document No.	in RMF and paragraph)	Result - Remarks		Verdict
9.2.3.2	RM TABLE: Over travel				N/A
Clause of ISO 14971	Document Ref. (Document No.	in RMF and paragraph)	Result - Remarks		Verdict
					·
9.2.4	RM TABLE: Er	RM TABLE: Emergency stopping devices			N/A
Clause of ISO 14971		Document Ref. in RMF (Document No. and paragraph)		Verdict	
					•
9.2.5	RM TABLE: Re	elease of patient			N/A
Clause of ISO 14971	Document Ref. (Document No.	in RMF and paragraph)	Result - Remarks		Verdict
9.3	RM TABLE: Ha	azards associate	d with surfaces, c	orners and edges	N/A
Clause of ISO 14971	Document Ref. (Document No.	in RMF and paragraph)	Result - Remarks		Verdict
					<u> </u>
9.4.2.1	TABLE: Instab	ility-overbalance	in transport posi	tion	Pass
ME EQUIPN preparation	MENT	Test Condition (t	ransport position)	Remarks	
Compeleted unit with batterys 10° Incline, 360					

Supplementary information:

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	IEC 60601						
Clause	Requirement + Test F		ılt - Remark	Verdict			
9.4.2.2	7.4.2.2 TABLE: Instability-overbalance excluding transport position						
preparation position) Test either 5		Test Condition (excluding transport position) Test either 5 ° incline and verify Warning marking or 10 ° incline)	Remarks				

9.4.2.3 TABLE: Instability-overbalance from horizontal and vertical forces

ME EQUIPMENT Test Condition (force used, direction of preparation force, weight of equipment, location of

Supplementary information:

force

Supplementary information:

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

9.4.2.4.3	TABLE: Casto	rs and wheels - Movement over a thresho	ld	N/A
ME EQUIPM preparation		Test Condition (speed of movement)	Remarks	
Supplement	ary information:			

9.4.2.4.3	RM TABLE: Movement over a t	hreshold	N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

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			IEC 60601		
Clause	Requirement +	Test	Result	- Remark	Verdict
9.4.3.1	TABLE: Instat		ted lateral movement (in	cluding sliding) in	N/A
ME EQUIP preparation			ransport position, working rice(s), caster position)	Remarks	·
Supplemen	ntary information:				
9.4.3.2	TABLE: Instability from unwanted lateral movement (including sliding) excluding transport position				
ME EQUIPMENT preparation		Test Condition (working load, locking device(s), caster position, force, force location, force direction)		Remarks	
Supplemen					
Supplemen	ntary information:				
Supplemen	ntary information:				
9.4.4		and other handli	ing devices		N/A
9.4.4			ing devices	Remarks	N/A
9.4.4 Clause and	TABLE: Grips	and other handli	ing devices	Remarks	N/A
9.4.4 Clause and	TABLE: Grips	and other handli	ing devices	Remarks	N/A
9.4.4 Clause and	TABLE: Grips d Name of Test ntary information:	and other handli	ing devices	Remarks	N/A
9.4.4 Clause and Supplemen	TABLE: Grips d Name of Test ntary information: RM TABLE: Pi Document Ref.	and other handli Test Condition rotective means	ing devices Result - Remarks	Remarks	
9.4.4 Clause and Supplement 9.5.1 Clause of	TABLE: Grips d Name of Test ntary information: RM TABLE: Pi Document Ref.	and other handli Test Condition rotective means in RMF		Remarks	N/A
9.4.4 Clause and Supplement 9.5.1 Clause of	TABLE: Grips d Name of Test ntary information: RM TABLE: Pi Document Ref. (Document No.	and other handli Test Condition rotective means in RMF	Result - Remarks	Remarks	N/A
9.4.4 Clause and Supplemen 9.5.1 Clause of ISO 14971	TABLE: Grips d Name of Test ntary information: RM TABLE: Pi Document Ref. (Document No.	and other handli Test Condition rotective means in RMF and paragraph)	Result - Remarks	Remarks	N/A Verdict
9.4.4 Clause and Supplemen 9.5.1 Clause of ISO 14971 9.6.1 Clause of	TABLE: Grips d Name of Test ntary information: RM TABLE: Pi Document Ref. (Document No.	and other handli Test Condition rotective means in RMF and paragraph) coustic energy - in RMF	Result - Remarks General	Remarks	N/A Verdict

Result - Remarks

Verdict

Clause of ISO 14971 Document Ref. in RMF (Document No. and paragraph)

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	-			IEC 6	0601				
Clause	Requ	uirement + Test				Result -	Remark		Verdict
9.7.2	RM T	ΓABLE: Pneumati	c and hyd	draulic pa	arts				N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)			Result - Remarks				Verdict	
9.7.4	RM T	ΓABLE: Pressure	rating of	ME equi	oment pa	ırts			N/A
Clause of ISO 14971	Docu	ıment Ref. in RMF ument No. and par			Remarks				Verdict
0.7.5	1-4-0								1,,,,
9.7.5	IAB	LE: Pressure vess	sels						N/A
Hydraulic, Pneumatic Suitable Me	-	Vessel Burst	Permane Deforma		Leaks		Vessel fluid substance	Re	emarks
and Test Pressure	eaia								
and Test		formation:							
and Test Pressure		formation:							
and Test Pressure	tary In	formation: TABLE: Pressure-	control d	levice					N/A
and Test Pressure Supplemen	tary In				Remarks				N/A Verdict
and Test Pressure Supplemen 9.7.6 Clause of	tary In	FABLE: Pressure-			Remarks				
and Test Pressure Supplemen 9.7.6 Clause of	RM T	FABLE: Pressure-	ragraph)	Result -	Remarks				
and Test Pressure Supplemen 9.7.6 Clause of ISO 14971	RM T	Γ ABLE: Pressure- ument Ref. in RMF ument No. and par	agraph)	Result -	Remarks				Verdict
and Test Pressure Supplemen 9.7.6 Clause of ISO 14971 9.7.7 Clause of	RM T	TABLE: Pressure- ument Ref. in RMF ument No. and par TABLE: Pressure- ument Ref. in RMF	agraph)	Result -					Verdict N/A
and Test Pressure Supplemen 9.7.6 Clause of ISO 14971 9.7.7 Clause of	RM T Docu (Docu	TABLE: Pressure- ument Ref. in RMF ument No. and par TABLE: Pressure- ument Ref. in RMF	ragraph) relief dev	Result -	Remarks		General		Verdict N/A
and Test Pressure Supplemen 9.7.6 Clause of ISO 14971 9.7.7 Clause of ISO 14971	RM T Docu (Docu	TABLE: Pressure- ument Ref. in RMF ument No. and par TABLE: Pressure- ument Ref. in RMF ument No. and par	ragraph) relief dev ragraph)	Result -	Remarks	stems - (General		Verdict N/A Verdict
and Test Pressure Supplemen 9.7.6 Clause of ISO 14971 9.7.7 Clause of ISO 14971 9.8.1 Clause of	RM T Docu (Docu	TABLE: Pressure- ument Ref. in RMF ument No. and par TABLE: Pressure- ument Ref. in RMF ument No. and par	ragraph) relief dev ragraph)	Result -	Remarks	stems - (General		N/A Verdict
and Test Pressure Supplemen 9.7.6 Clause of ISO 14971 9.7.7 Clause of ISO 14971	RM T Docu (Docu	TABLE: Pressure- ument Ref. in RMF ument No. and par TABLE: Pressure- ument Ref. in RMF ument No. and par	relief dev ragraph)	Result -	Remarks	stems - (General		N/A Verdict N/A

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				IEC 60601				
Clause	Require	ement + Test		120 00001	Result - Rema	ark		Verdict
9.8.3.1	RM TAI	BLE: Strength of par	tient	t or operator sup	port or suspen	sion	systems -	N/A
Clause of ISO 14971		Document Ref. in RMF (Document No. and paragraph) Result - Remarks				Verdict		
9.8.3.2	TABLE	: Patient support/su	spe	nsion system - S	Static forces			N/A
ME Equipm or area	ent part	Position	Loa	ad	Area		Remarks	
Supplement	tary Infor	motion:						
Саррістісті	lary IIIIOI	mation.						
	1							1
9.8.3.2a, b	RM TAI	BLE: Static forces d	ue t					N/A
9.8.3.2a, b Clause of ISO 14971	RM TAI			o loading from p Result - Remark				N/A Verdict
9.8.3.2a, b Clause of	RM TAI	BLE: Static forces dent Ref. in RMF						
9.8.3.2a, b Clause of ISO 14971	RM TAI	BLE: Static forces dent Ref. in RMF nent No. and paragrapher support/Suspension	oh)	Result - Remark	S	load	ing from	
9.8.3.2a, b Clause of ISO 14971 9.8.3.3	RM TAI Docume (Docum TABLE person	BLE: Static forces dent Ref. in RMF nent No. and paragraphs: Support/Suspensions	oh) on S	Result - Remark	S	load	ing from	Verdict
9.8.3.2a, b Clause of ISO 14971 9.8.3.3 ME Equipm	RM TAI Docume (Docum TABLE person ent part	BLE: Static forces dent Ref. in RMF nent No. and paragraphs: Support/Suspensions	oh) on S	Result - Remark	c forces due to	load	_	Verdict
9.8.3.2a, b Clause of ISO 14971 9.8.3.3 ME Equipm or area	RM TAI Docume (Docum TABLE person ent part	BLE: Static forces dent Ref. in RMF nent No. and paragraphs: Support/Suspensions	oh) on S	Result - Remark	c forces due to	load	_	Verdict
9.8.3.2a, b Clause of ISO 14971 9.8.3.3 ME Equipm or area	RM TAI Docume (Docume TABLE person ent part	BLE: Static forces dent Ref. in RMF nent No. and paragraphs: Support/Suspensions	oh)	Result - Remark System - Dynamic	c forces due to		Remarks	Verdict

9.8.4.3	RM TABLE: Mechanical protective device for single activation		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

9.8.5	RM TABLE: Systems without m	echanical protective devices	N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	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 ar	ea under test Surface no./ Description1	Measured Radiation, pA/kg (μSv/h) (mR/h)	Remarks

Supplementary information: 1 Measurements made at a distance of 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

10.1.2	RM TABLE: ME equipment inte radiation	nded to produce diagnostic or therapeutic X-	N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

10.2	RM TABLE: Alpha, beta, gamm	a, neutron & other particle radiation	N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

10.3	RM TABLE: Microwave radiation	RM TABLE: Microwave radiation	
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

10.5	RM TABLE: Other visible electronic	omagnetic radiation	N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

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Clause	Requirement + Test	Result - Remark	Verdict

10.6	RM TABLE: RISK associated w lasers and LEDs	ith infrared radiation other than emitted by	N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

10.7	RM TABLE: RISK associated w lasers and LEDs	ith ultraviolet radiation other than emitted by	N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

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IEC 60601				
Clause	Requirement + Test		Result - Remark	Verdict

11.1.1	TABLE: Ex	cessive temperature	es in ME EQ	UIPMENT					Pass
Model No. :		GTM93007 CCA5024- 5.0	-	-		-		-	
Test ambier	nt (°C) :		26.7	-	-		-		-
Test supply	voltage/frequ	uency (V/Hz)(4):	19/n.a.	-	-		-		-
Model No.	Thermo - couple No.	Thermocouple location(3)		Max allowal temperature from Table 2 23 or 24 or file for AP(5 (°C)	e(1) temper 22, (°C) RM		easured rature(2),	Re	emarks
GTM93007 CCA5024- 5.0	17	Enlosure Top(inside)		85		25		-	
-	18	Enlosure Bottom		85		25		-	
-	19	PCB Q402		130	25			-	
-	20	PCB Q403		130 25			-		
-	21	PCB U400		130 25			-		
-	22	PCB CMC		130		25		-	
-	23	Plastic of CMC		130		25		-	
-	24	Enlosure Top(outsid	le)	85		25		-	
-	25	Enlosure Bottom(ou	tside)	85		25		-	

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.

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

11.1.1	RM TABLE: Maximum temperature during normal use (Table 23 or 24)				
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict		

11.1.2.1	RM TABLE: Applied parts intended to supply heat to patient		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

11.1.2.2	RM TABLE: Applied parts not intended to supply heat to patient		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

11.1.3	TABLE: Temperature of windings by change-of-resistance method						N	/A
Temperatur	e T of winding:	t1 (°C)	R1 (ohm)	t2 (°C)	R2 (ohm)	T (°C)	Allowed Tmax(°C)	Insulatio n class

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.

11.1.3	RM TABLE: Measurements		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

11.2.2.1	RM TABLE: Risk of fire in an oxygen rich environment		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

11.2.2.1	TABLE: Alternative method ignition source	of an	N/A		
Areas where	Areas where sparking might cause ignition:				
Materials of the parts between which sparks could occur (Composition, Grade Designation, Manufacturer):					
Test param	Remarks				
Oxygen cor	ncentration (%)				
Fuel					
Current (A)					
Voltage (V)					
Capacitance	e (uF)				
Inductance	or resistance (h or Ohms)				
No. of trials	(300 Min)				
Sparks resu	ulted in ignition (Yes/No)				

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.

11.3	RM TABLE: Constructional requirements for fire enclosures of ME equipment		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

11.5	RM TABLE: ME equipment and ME systems intended for use in conjunction with flammable agents		N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

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			IEC 6060	1			
Clause	Requiremen	nt + Test			Result - Remark		Verdict
11.6.1		erflow, spillage, leal n, compatibility with			ater, cleaning, dis	infection,	N/A
Clause / Te	st Name	Test Condition		Part ι	under test	Remarks	
Supplemen	tary informati	on:					
11.6.2	RM TABLE	: Overflow in ME eq	uipment				N/A
Clause of ISO 14971	Document F		Result - Rer	narks			Verdict
130 149/1	(Document	No. and paragraph)					
	T		_				T
11.6.3		: Spillage on ME eq			ystem		N/A
Clause of ISO 14971	Document F (Document	Ref. in RMF No. and paragraph)	Result - Rer	narks			Verdict
11.6.5	RM TABLE	: Ingress of water o	r particulate	matte	r into ME EQUIPM	ENT and	N/A
Clause of ISO 14971	Document F (Document	Ref. in RMF No. and paragraph)	Result - Rer	narks			Verdict
11.6.6	RM TABLE	: Cleaning and disin	fection of M	E equ	ipment and ME sy	stems	N/A
Clause of ISO 14971	Document F (Document	Ref. in RMF No. and paragraph)	Result - Rer	narks			Verdict
11.6.7	RM TABLE	: Sterilization of ME	equipment a	and M	E systems		N/A
Clause of ISO 14971	Document F (Document	Ref. in RMF No. and paragraph)	Result - Rer	narks			Verdict
11.6.8	RM TABLE	: Compatibility with	substances	used			N/A
Clause of ISO 14971	Document F (Document	Ref. in RMF No. and paragraph)	Result - Rer	narks			Verdict

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict
12.1	RM TABLE: Accuracy of contro	ols and equipment	t	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
12.3	RM TABLE: Alarm systems			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
12.4.1	RM TABLE: Intentional exceed	ing of safety limits	S	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
				•
12.4.2	RM TABLE: Indication of paran	neters relevant to	safety	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
12.4.3	RM TABLE: Accidental selection	on of excessive ou	ıtput values	N/A
12.4.3 Clause of ISO 14971	RM TABLE: Accidental selection Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	itput values	N/A Verdict
Clause of	Document Ref. in RMF		itput values	
Clause of	Document Ref. in RMF		itput values	
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)		itput values	Verdict
Clause of ISO 14971 12.4.4 Clause of	Document Ref. in RMF (Document No. and paragraph) RM TABLE: Incorrect output Document Ref. in RMF	Result - Remarks	itput values	Verdict N/A
Clause of ISO 14971 12.4.4 Clause of	Document Ref. in RMF (Document No. and paragraph) RM TABLE: Incorrect output Document Ref. in RMF	Result - Remarks Result - Remarks	itput values	Verdict N/A

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IEC 60601				
Clause	Requirement + Test		Result - Remark	Verdict
12.4.5.3	RM TABLE: Radiotherapy equipment			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph) Result - Remarks		Verdict	

12.4.5.4	RM TABLE: Other ME equipment producing diagnostic or therapeutic radiation		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

12.4.6	RM TABLE: Diagnostic or therapeutic acoustic pressure		N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

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					
Power dissipated less than (W) 15						
Energy diss	ipated less than	(J)		900		
Part or component tested Measured power dissipated (W) Calculation dissipated (W)				SINGLE FAULT CONDITIONS waived (Yes/No)	Remarks	
Supplement	Supplementary information:					

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	IEC 60	601	
Clause	Requirement + Test	Result - Remark	Verdict

13.2	TABLE: Single Fault Conditions in accordingly:	ordance with 13.2.2 to 13.2.13,	Pass
Clause No.	Description of SINGLE FAULT CONDITION	Results observed	Hazardous Situation (Yes/No)
13.2.2	Electrical SINGLE FAULT CONDITIONS per Clause 8.1:	-	-
13.2.2	Pin 24 & Pin 21 of MCU	The power is reduced 16W(From 60w to 48w)	No
13.2.2	Pin 24 & Pin 19 of MCU	The power is reduced 16W(From 58w to 42w)	No
13.2.2	short output	The power is reduced 16W(From 44w to 36w)	No
13.2.3	Overheating of transformers per Clause 15.5:	-	-
-	-	-	_
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:	-	-
-	-	-	-
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:	-	-
-	-	-	-
13.2.6	Leakage of liquid - RISK MANAGEMENT FILE examined to determine the appropriate test conditions (sealed rechargeable batteries exempted)	-	-
-	-	-	-
13.2.7	Impairment of cooling that could result in a HAZARD using test method of 11.1:	-	-
-	-	-	-
13.2.8	Locking of moving parts - Only one part locked at a time - Also see 13.2.10	-	-

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

	below:		
-	-	-	-
13.2.9	Interruption and short circuiting of motor capacitors - Motor capacitors short & open circuited 1 - Also see 13.10	-	-
-	-	-	-
13.2.10	Additional test criteria for motor operated ME EQUIPMENT in 13.2.8 &13.2.9:	-	-
-	-	-	-
13.2.11	Failures of components in ME EQUIPMENT used in conjunction with OXYGEN RICH ENVIRONMENTS:	-	-
-	-	-	-
13.2.12	Failure of parts that might result in a MECHANICAL HAZARD (See 9 & 15.3):	-	-
-	-	-	-

Supplementary information:

1 Test with short-circuited capacitor not performed when motor provided with a capacitor complying with IEC 60252-1 and the ME EQUIPMENT not intended for unattended use including automatic or remote control. See Attachment # and appended Table 8.10.

13.2.6 RM TABLE: Leakage of liquid N/A

Clause of ISO 14971 Document Ref. in RMF (Document No. and paragraph) Result - Remarks Verdict

14.1	RM TABLE: Programmable electrical medical systems - General		N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

14.6.1	RM TABLE: Identification of known and foreseeable hazards		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict
14.6.2	RM TABLE: Risk control			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
14.7	RM TABLE: Requirement spec	ification		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
14.8	RM TABLE: Architecture			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
14.9	RM TABLE: Design and Impler	nentation		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
14.10	RM TABLE: Verification			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
14.11	RM TABLE: PEMS validation			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
14.13	RM TABLE: Connection of PER equipment	MS by NETWORK/	DATA COUPLING to other	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict

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	IEC 60601		
Clause	Requirement + Test	Result - Remark	Verdict

15.1	RM TABLE: Construction of ME equipment - Arrangements of controls and indicators of ME equipment		N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

15.3	TABLE: Mechanical	Strength tests 1)		Pass
Clause	Name of Test	Test conditions	Observed results/Rema	rks
15.3.2	Тор	Force = 250 N ± 10 N for 5 s	Pass	
-	Side	Force = 250 N ± 10 N for 5 s	Pass	
-	Bottom	Force = 250 N ± 10 N for 5 s	Pass	
15.3.3	Тор	Steel ball (50 mm in dia, 500 g \pm 25 g) falling from 1.3 m	Pass	
-	Side	Steel ball (50 mm in dia, 500 g \pm 25 g) falling from 1.3 m	Pass	
-	Bottom	Steel ball (50 mm in dia, 500 g \pm 25 g) falling from 1.3 m	Pass	
15.3.4.2	Drop height (cm) = 5	Drop height (cm) = 5 , 3Times	Pass	
15.3.6	Mold Stress Relief	7 h in oven at temperature (°C) = 70	10:16~17:16 Pass	
	ntary information: 1)As a	applicable, Push, Impact, Drop, Mould	Stress Relief and Rough	Handling

Supplementary information: 1)As applicable, Push, Impact, Drop, Mould Stress Relief and Rough Handling Tests (delete not applicable rows).

15.3.2	RM TABLE: Push test		N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

15.3.3	RM TABLE: Impact test		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

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		IEC 60601		
Clause	Requirement + Test	F	Result - Remark	Verdict
15.3.4.2	RM TABLE: Portable ME equipment			N/E
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
15.3.5	RM TABLE: Rough handling te	est		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
15.4.1	RM TABLE: Construction of co	onnectors		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
15.4.2.1 a	RM TABLE: THERMAL CUT-OU	JTS and OVER-CUR	RENT RELEASES	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
15.4.2.1 b	RM TABLE: THERMAL CUT-OL	JTS with a safety fu	nction	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
15.4.2.1 c	RM TABLE: Independent non-S	SELF-RESETTING T	HERMAL CUT-OUT	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict
15.4.2.1 d	RM TABLE: Loss of function o	f ME EQUIPMENT		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict

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		IEC 60601			
Clause	Requirement + Test		Result - Remark	Verdict	
15.4.2.1 h	15.4.2.1 h RM TABLE: ME EQUIPMENT with tubular heating elements				
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict	
15.4.3.1	RM TABLE: Housing			N/A	
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict	
15.4.3.2	RM TABLE: Connection			N/A	
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict	
15.4.3.3	RM TABLE: Protection against	overcharging		N/A	
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict	
15.4.3.4	RM TABLE: Lithium batteries			N/A	
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict	
15.4.3.5	RM TABLE: Excessive current	and voltage prote	ection	N/A	
Clause of ISO 14971	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks		Verdict	
15.4.4	RM TABLE: Indicators			N/A	
	Document Ref. in RMF	Result - Remarks		Verdict	

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

15.4.5	RM TABLE: Pre-set controls		N/A
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

15.4.6		TABLE: actuating parts of controls of ME EQUIPMENT - torque & axial pull tests					N/A
Rotating cou	ntrol	Gripping diameter "d" of control knob (mm) 1	Torque from Table 30 (Nm)	Axial force applied (N)	Unacceptable RISK occurred Yes/No	Re	emarks
	Supplementary information: 1 Gripping diameter (d) is the maximum width of a control knob regardless of its shape (e.g. control knob with pointer)						

15.4.7.3 b	RM TABLE: Entry of liquids	RM TABLE: Entry of liquids		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict	

15.5.1.2	TABLE: transformer short circuit test short-circuit applied at end of windings or at the first point that could be short circuited under SINGLE FAULT CONDITION					N/A	
Primary volta	ge (most advers	se value from 9	90 % to 110 %	of RATED vol	tage)(V)1		-
RATED input	frequency (Hz)						-
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)

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

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		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

	TABLE: transformer ov under short-circuit test	protective devi	ce N/A			
Primary voltage, most adverse value between 90 % to 110 % of RATED voltage (V)1						
RATED inpu	t frequency (Hz)					
Test current just below minimum current that would activate protective device & achieve THERMAL STABILITY under method a) (A)						
Test current based on Table 32 when protective device that operated under method a) is external to transformer, and it was shunted (A)						
Winding test			ng Amb	bient (°C)		

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	ABLE: Transformer dielectric strength after humidity preconditioning of 5.7					
Transformer Model/Type No		Test voltage applied between	Test voltage, (V)		Breakdow n Yes/No	Deteriorati on Yes/No	
Supplementary information: Tests conducted under the conditions of 11.1, in ME EQUIPMENT or under simulated conditions on the bench. See Clause 15.5.2 for test parameters & other details							

16.1	RM TABLE: General requireme	RM TABLE: General requirements for ME Systems		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict	

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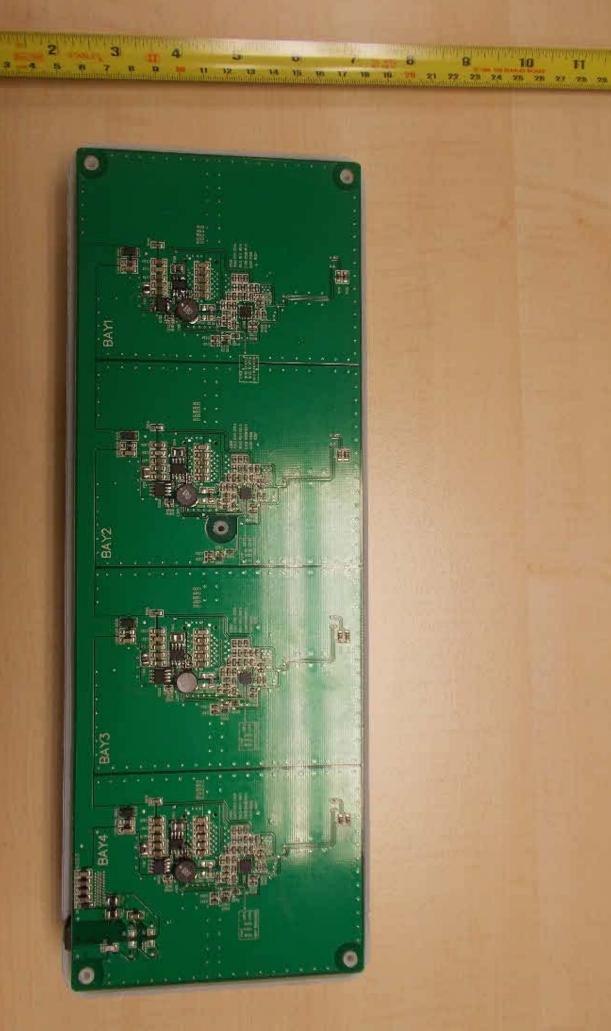
		IEC 60601		
Clause	Requirement + Test		Result - Remark	Verdict

16.6.1	TABLE: Leakage C	urrents in M	E System _	Touch Current Measure	ments	N/A	
CURRENT or between	ithin PATIENT	in NORMAL	Measured TOUCH CURRENT in NORMAL CONDITIO N (µA)	interruption of PROTECTIVE EARTH	Measured T CURRENT interruption PROTECTIV CONDUCTO	in event of of VE EARTH	
Supplement	Supplementary information:						

16.9.1	RM TABLE: Connection terminals and connectors		
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict

17	RM TABLE: Electromagnetic compatibility of ME equipment and ME systems			
	Document Ref. in RMF (Document No. and paragraph)	Result - Remarks	Verdict	

SP	TABLE: Ad	TABLE: Additional or special tests conducted		
Clause and Name of Test		Test type and condition	Observed results	
5.7 HUMIDITY PRECONDITIONING TREATMENT		Keep this production at 25.1 Deg C for 4 hours ,then put it into the chamber which is 95% humidity and 30 Deg C , after that , keep it at 60.4% Humidity and 25 Deg C.		
Supplementary information:				
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