

TEST REPORT

On Behalf of

Foshan Newface Electronic Technology Co., Ltd

Hydrodermabrasion Machine

Model: NV-W03, NV-F01, NV-F02, NV-W05X, NV-W05B, NV-W07, NV-P100, NV-P200, NV-WQ8, NV-WX4

Prepared For : Foshan Newface Electronic Technology Co., Ltd

Hengsan Road, Industrial Zone ShachongShabu, Lishui,

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Limited

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Date of Test: May 15, 2018 to Jun. 11, 2018

Date of Report: Jun. 11, 2018

Report Number: SZAHS180515007-01



TEST REPORT

EN 60601-1

Medical electrical equipment -

Part 1: General requirements for basic safety and essential performance

Report

Compiled by..... Elaiven Zhuang

Approved by...... Jeff Zhu

Contents.....: 111 pages report

Testing laboratory

Name...... Shenzhen Anbotek Compliance Laboratory Limited

Industrial Zone, Pingshan New District, Shenzhen, Guangdong,

Ambotek

China

Testing location.....: Same as above

Applicant

Name...... Foshan Newface Electronic Technology Co., Ltd

Foshan City, GD

Manufacturer

Name...... Same as applicant

Address.....: Same as applicant

Factory

Name...... Same as manufacturer

Address..... Same as manufacturer

Test specification

Standard...... EN 60601-1:2006+A1:2013+A12:2014

Test procedure N.A.

Non-standard test method...... N.A.

Test item Description

Product name...... Hydrodermabrasion Machine

Trademark.....: NEWFACE

Model and/or type reference.....: NV-W03, NV-F01, NV-F02, NV-W05X, NV-W05B, NV-W07, NV-

P100, NV-P200, NV-WQ8, NV-WX4

Rating(s)...... : AC 100-230V, 50/60Hz, 130W



General information	Anbotek Anbotek Anbotek
Test item particulars (see also Clause 5):	
Classification of installation and use	Lek Class Labore All L
Device type (component/sub-assembly/ equipment/ system)	nbotek Anbot Ak botek Anbotek Anbote
Intended use (Including type of patient, application location) Mode of operation	
Mode of operation	Continuous operation
Supply connection	
Accessories and detachable parts included	Pluggable equipment type A Yes
Other options include	Yes Anbotek Anbotek Anbotek Anbotek
Tested for IT nower systems	NEX Anbor Ar tek aboter Anb
IT testing, phase-phase voltage (V)	N.A. tek Anbotek Anbotek Anbotek Anbotek Ant
Protection against ingress of water	IP20 potek Anbor All rek aboten
Mass of equipment (kg)	And Sotek Anbotek Anbotek
Test case verdicts	
Test case does not apply to the test object	N(.A.) Anbotek Anbotek Anbotek Anbotek
Test item does meet the requirement	
Test item does not meet the requirement	tek upo, Mr. K toter Vup
Testing wotek Anbote Anb	abotek Anbotek Anbotek A
Date of receipt of test item	May 15, 2018
Date of receipt of test item Date(s) of performance of test	May 15, 2018 to Jun 11, 2018
Abbreviations used in the report:	
- normal condition	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
- operational insulation	
- basic insulation between parts of opposite po	ianty
- double insulation	by DI By
- single fault condition	A Stell Library
ok hov All	SFC Andrew Andrew Andrew Andrew
- basic insulation	SFC Bl
- basic insulation - supplementary insulation - reinforced insulation	Bl Andrek Andrek Andrek Andrek

General remark

This test report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item tested.

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a dot is used as the decimal separator.

According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.



Copy of marking plate

Formed as following:

Hydrodermabrasion Machine

Model No.: NV-W03

Rating: AC 100-230V, 50/60Hz, 130W







Foshan Newface Electronic Technology Co., Ltd Hengsan Road, Industrial Zone ShachongShabu, Lishui, Nanhai, Foshan City, GD

Importer: XXX Address: XXX

(Size: height of WEEE mark at least 7mm, height of other marks at least 5mm, height of letters and numbers at least 2mm)



Anbotek	Anbotek Anbotek	EN 60601-1	Anbotek Anbotek	Anho A
Clause	Requirement Test	Anboten Anbo	Result - Remark	Verdict

4	GENERAL REQUIREMENTS	GENERAL REQUIREMENTS		
4.1	Requirements of this standard applied in NORMAL USE and reasonably foreseeable misuse	Anbotek Anbotek An	otek P An	
4.2 otek Anbotel	A RISK MANAGEMENT PROCESS complying with ISO 14971 was performed:	Risk management made according to the standard ISO 14971	Anbotek Anbotek	
4.3 Anbr	ESSENTIAL PERFORMANCE functions identified according to MANUFACTURER'S policy for RISK acceptability in RISK MANAGEMENT FILE	hotek Anbotek Anbote	k P Anbot	
	ESSENTIAL PERFORMANCE functions maintained following particular tests as applicable	Anbotek Anbotek Ant	anbotekP	
4.4	EXPECTED SERVICE LIFE stated in RISK MANAGEMENT FILE	ek anbotek Ambotek	Anb N Notek	
4.5 Ando	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	k N Anbotek otek Ant	
4.6 Anbotek	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	lek Anbotek Anbotek	Anbotek Anbotek	
4.7 Ar	ME EQUIPMENT remained SINGLE FAULT SAFE, or the RISK remained acceptable as determined by Clause 4.2:	Anbotek Anbotek Anb	nbotek P Anb	
Anbotek	Failure of any one component at a time that could result in a HAZARDOUS SITUATION, including those in 13.1, simulated physically or theoretically	Anbotek Anbotek	Anbotek Anbotek	
k Ando	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	Anbotek Anbotek Anbotek	Ribote tek Anb	
4.8 Ambotek	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	See appended Table 8.10 for details	Anbotek Anbotek	
otek Ani	Reliability of components used as MEANS OF PROTECTION assessed for conditions of use in ME EQUIPMENT, and they complied with one of the following:	Anbotek Anbotek Anbotek	ek Anbo	
nbotek	a) Applicable safety requirements of a relevant IEC or ISO standard	Wipotek Wipotek	Anbotak Otek	
Anbote	b) Requirements of this standard applied in the absence of a relevant IEC or ISO standard	otek Anbotek Anbotek	Anbotek	



	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
hote	Anbor An otek Anboten Ant	botek Anbore	Am
1.9 Ant	A COMPONENT WITH HIGH-INTEGRITY CHARACTERISTICS provided because a fault in a particular component can generate an unacceptable RISK	See appended Table 8.10	otek Nanb
Anbotek Anbotek Anbote	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	tek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
4.10	Power supply	Anhoten Anhoten Anh	, P
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	Lek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
1.10.2 And	Maximum rated voltage for ME EQUIPMENT intended to be connected to SUPPLY MAINS is 250 V for HAND-HELD ME EQUIPMENT (V)	Anbotek Anbotek Anbo	otek N Ar
Anbotek Anbotek	– 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)	Rated supply voltage:100-230 Vac	Anbolek Anbotek
Aupote	- 500 V for all other ME EQUIPMENT and ME SYSTEMS	botek Anbotek Anbote	N Anbot
.11	Power input		otek P An
Anbotek A	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	nbotek Anbotek
Anbote, Anbo	Measurements on ME EQUIPMENT or a ME SYSTEM marked with one or more RATED voltage ranges made at both upper and lower limits of the range.:	Power input measurements performed at upper and lower limit of the range (Rated supply voltage: 100-230 Vac)	P Anbot
hotek Anbotek	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	Anbotek Anbotek A	Anbotek Anbotek
Anbot Anbot	Power input, expressed in volt-amperes, measured with a volt-ampere meter or calculated as the product of steady state current (measured as described above) and supply voltage:	Power input measured with volt-ampere meter	Riboti lek Ant

5	GENERAL REQUIREMENTS FOR TESTING ME EQUIPMENT				
5.1 Anboten	TYPE TESTS determined in consideration of Clause 4, in particular 4.2	Panbotek			



Anbor	EN 60601-1	k Aupore Aur	botek
Clause	Requirement Test	Result - Remark	Verdict
ankote Ank	Test not performed when analysis indicated condition being tested was adequately evaluated by other tests or methods	Anbotek Anbotek Anbotek Anbote	NAnbo
Anbotek	Results of RISK ANALYSIS used to determine combination(s) of simultaneous faults to be tested	Anbotek Anbotek	Anbotek hotek
5.2 Anbotek	TYPE TESTS conducted on one representative sample under investigation; multiple samples used simultaneously when validity of results was not significantly affected	btek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
5.3	a) Tests conducted within the environmental conditions specified in technical description	Anbotek Anbotek Ant	otek P An
Anbotek	b) ME EQUIPMENT shielded from other influences that might affect the validity of tests	Anbotek Anbotek	AnboN.k
Anbotel Anbotel	c) Test conditions modified and results adjusted accordingly when ambient temperature could not be maintained	botek Anbotek Anbotek	Anbor
5.4k orek	a) ME EQUIPMENT tested under least favourable working conditions specified in instructions for use and identified during RISK ANALYSIS, except as noted	Max. rated normal load	nbotek Anbotek
Anbotek Anbotek	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	botek Anbotek Anbotek Anbotek Anbotek	ArNotek Anbote
nbotek Ar	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	Anbotek Anbotek Anbotek Anbotek	nbotek N Anbotek
An	d) Potable water used for cooling	And otek Anbotek	MA
5.5 Anbo	Supply voltage during tests was the least favourable of the voltages specified in 4.10 or voltages marked on ME EQUIPMENT (V):	Rated supply voltage:100-230 Vac. Tests were performed within the range of rated supply voltage	Pobote tek Anb
Anbotek Anbotek	ME EQUIPMENT marked with a RATED frequency range tested at the least favourable frequency within the range (Hz)	Rated supply frequency: 50/60 Hz. Tests were performed within the range of rated supply frequency	Anbotek Anbotek
tek Anbot	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	Anbotek	ek N Anbr
Anbotek Anbotek	ME EQUIPMENT tested with alternative ACCESSORIES and components specified in ACCOMPANYING DOCUMENTS to result in the least favourable conditions:	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek



Anboten	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
, soote	k Aupor Air stok upotek Aur	ok notek Anbote	Ans
iek Anb	ME EQUIPMENT connected to a separate power supply as specified in instructions for use	hbotek Anbotek Anbot	otek Nanbor
5.6 K	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	Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbotel	Alternatively, upon repair and modification of the sample, only the relevant tests conducted	botek Anbotek Anbotek	K APbote
5.7 Anbrotek	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	Complete device was subject to the humidity treatment	otek P Anb
Anbotek Anbotek	Manually detachable parts removed and treated concurrently with major parts and manually removable ACCESS COVERS were opened and detached	botek Anbotek Anbotek	A.Notek Anbotek
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek A Anbotek
k Anboic	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)	Anbotek Anbotek Anbotek Anbotek Anbotek	tek Anbo
5.8 sek	Unless stated otherwise, tests in this standard sequenced as in Annex B to prevent results of one test on a subsequent test	Anbotek Anbotek Anbotek	Anbotek
5.9 hotek	Determination of APPLIED PARTS and ACCESSIBLE PA	RTS K Botek Anbote	And P stek
5.9.1 _{Anbot}	APPLIED PARTS identified by inspection and reference to ACCOMPANYING DOCUMENTS	Photek Williams Williams	tek Anbo
5.9.2	ACCESSIBLE PARTS	nbotek Anbore An	hotek P An
5.9.2.1	Accessibility, when necessary, determined using standard test finger of Fig 6 applied in a bent or straight position	ek Anbotek Anbotek	Anbotek Anbotek
Anbote	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	otek Anbotek Anbotek	Photek Anbot
hbotek Anbotek	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	Anbotek Anbotek Anbotek	hotek N An
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	otek Anbotek Anbotek	N Anbotek Anbotek



And	EN 60601-1	N Anbo Ar stak	"pote"
Clause	Requirement Test	Result - Remark	Verdict
note	K Anbot An rek abotem Anti	otek anbote	Vun
ek Anb	All additional parts that became accessible checked using standard test finger and by inspection	Anbotek Anbotek Anbot	otek Nanbo
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	Anbotek Anbotek Anbotek	Anbotek Anbotek
ootek Anbotek	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.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Andotek

6	CLASSIFICATION OF ME EQUIPMENT AND ME	SYSTEMS	Р
6.2	CLASS I ME EQUIPMENT, externally powered	tek nbotek Anbote	Pani
atek	CLASS II ME EQUIPMENT, externally powered	Anbo tek Anbotek Anb	N An
rek	INTERNALLY POWERED ME EQUIPMENT	Anbo Ak abotek	inpoter N
Anbotek Anbote Anbote	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	ek Anbotek Anbotek botek Anbotek Anbotek	Anbotek Anbotek
otek	TYPE B APPLIED PART	Anbotek Anb	N Ant
nek.	TYPE BF APPLIED PART	Anbo tek Abotek A	upote. B
'upo	TYPE CF APPLIED PART	Anbo. A. abotek	Aupote,
Aupo	DEFIBRILLATION-PROOF APPLIED PARTS	ek Anbor Anbotek	AnNotes
6.3 And	ENCLOSURES classified according to degree of protection against ingress of water and particulate matter (IPN ₁ N ₂) as per IEC 60529	Anbotek Anbotek Anbotek	Nabote Lek Anb
6.4	ME EQUIPMENT or its parts intended to be sterilized classified according to method(s) of sterilization in instructions for use	Anbotek Anbotek A	Anbotek N
6.5 Anbote	ME EQUIPMENT and ME SYSTEMS intended for use in an OXYGEN RICH ENVIRONMENT classified for such use and complied with 11.2.2	otek Anbotek Anbotek	AnWres
6.6	CONTINUOUS OF Non-CONTINUOUS OPERATION	apole Aug K 20	ek P Wpc

por	Anbotek Anbotek Anbotek Anbotek Anbote	ek Anbotek Ant
7	ME EQUIPMENT IDENTIFICATION, MARKING, AND DOCUMENTS	Р
7,1.1	RISK of poor USABILITY associated with the design of ME EQUIPMENT'S identification and marking addressed in a USABILITY ENGINEERING PROCESS:	Anbotek Anbotek



Anboten	And tek abotek	EN 606	601-1	Anbotek Anbo	hotek
Clause	Requirement Test	Anbotel	AUD	Result - Remark	Verdict
7.1.2 Anhors	Legibility of Markings Test for Clause 7.2-7.6		fied in	botek Anbotek Anbote	Anbor PAnbor
7.1.3	Required markings can be a TOOL or by appreciable force remain CLEARLY LEGIBLE dualifie of ME EQUIPMENT in NOR	e, are durable ar ring EXPECTED SE	idotek	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbote	a) After tests, adhesive laber curl up at edges and markin requirements in Clause 7.1.	ngs complied with		botek Anbotek Anbotek	K Anboth
otek Amb	b) Markings required by 7.2 LEGIBLE after marking durab			Anbotek Anbotek An	otek P An
7.2	Marking on the outside of M	E EQUIPMENT or I	ME EQUIP	PMENT parts	Puper Pk
7.2.1 Anbotel	At least markings in 7.2.2, 7 PERMANENTLY INSTALLED ME and 7.2.13 were applied whits part, an ACCESSORY, or E permit application of all required.	EQUIPMENT), 7.2 len size of EQUIP ENCLOSURE did no	.10, MENT,	ek Anbotek Anbotek Dotek Anbotek Anbotek	Anbote Anbote
otek A	Remaining markings fully re ACCOMPANYING DOCUMENTS		otek .	Anbotek Anbotek Ant	nbotekP An
hotek	Markings applied to individuimpractical to apply to ME E		en otek	Anbotek Anbotek	AnboN ^k
Anbotek Anbotek	A material, component, ACC EQUIPMENT intended for a si packaging marked "Do Not 28 of Table D.1 (ISO 7000-	ngle use, or its Reuse" or with s		otek Anbotek Anbotek Anbotek	ANN Anbote
7.2.2	MANUFACTURER'S name or to ME EQUIPMENT and detacha		d on	Anbotek Anbotek	nbote ^K P A
Anbotek	Misidentification does not p	resent an unacce	eptable	k Anbotek Anbotek	Anbotek
Anboron	MODEL OR TYPE REFERENCE when misidentification woul unacceptable RISK	d not present an		otek Anbotek Anbotek	Photel Anbre
hootek Ar	Software forming part of a runique identifier, such as re release/issue, and identificatesignated persons	evision level or da ation are availabl	ate of	Anbotek Anbotek Anbotek	hotek P Anbotek
7.2.3 Anbotek	Symbol 11 on Table D.1 (IS 2004-01) used, optionally, a consult ACCOMPANYING DOC	advice to OPERAT		otek Anbotek Anbotek	Ann Anbotek
tek An	Safety sign 10 on Table D.2 60878 Safety 01) used, adv ACCOMPANYING DOCUMENTS	ising OPERATOR	that	Anbotek Anbotek Anbo	potek Ar
7.2.4	ACCESSORIES marked with n MANUFACTURER or supplier, a TYPE REFERENCE	and with a MODEL		Anbotek Anbotek	Anbotek Anbotek



Anbore	And tek abotek	EN 60601	1-1, tek	Anboter Anb	botek
Clause	Requirement Test	Anbore. A	'Up	Result - Remark	Verdict
Anbote	K Wipos W.	K Anboten	Anbe	stek shotek Anbote	K NO
ek Anb	Markings applied to individual practical to apply to ACCESSO		not	botek Anbotek Anbot	PANDO
7.2.5 Anbotek	MODEL or TYPE REFERENCE of connected to ME EQUIPMENT marked adjacent to the relevation this connection could unacceptable RISK	to provide power, is vant connection poir result in an			Anbotek Anbotek
7.2.6 Anbote	Connection to the Supply Ma	ains Anbore	Ann	otek Anbotek Anbo	P bot
otek Anb	Except for PERMANENTLY INST marking appearing on the o containing SUPPLY MAINS con to connection point	utside of part	-	Anbotek Anbotek Anbotek Anbotek	otek P ^{An}
Anbotek Anbotek	For PERMANENTLY INSTALLED NOMINAL supply voltage or ra outside of ME EQUIPMENT, prosupply connection terminals	ange marked inside		otek Anbotek Anbotek	Anbotek Anbotek
otek Anbo	RATED supply voltage(s) or with a hyphen (-) between m voltages (V, V-V)	inimum and maxim		100-230 Vac	otek P An
	Multiple RATED supply voltag supply voltage ranges are so			Single supply only	Aupolok Nk
Anbotek	 Nature of supply (e.g., No. single-phase) and type of cu 			Symbol "~" provided near supply voltage range	Ar Poter
otek Anbo	Symbols 1-5, Table D.1 (syr 5032, 5032-1, 5032-2, 5031 2002-10) used, optionally, for	, and 5033, all DB:	6	Symbol No.1 of Table D1 provided near supply voltage range	otek Ant
	– RATED supply frequency or range in hertz		potek	50/60 Hz	anbotek
Anbotek	– Symbol 9 of Table D.1 (sy DB: 2003-02) used for CLASS			Class I equipment	AnNitek
7.2.7 Anbot	RATED input in amps or volt- power factor exceeds 0.9 (A			nbotek Anbotek Anbote	rek Anb
hbotek Anbotek	RATED input for one or more provided for upper and lowe ranges when the range(s) is 10 % of the mean value of s W)	r limits of the range /are greater than ± pecified range (A, V	or s	Maximum rated input current specified by the manufacturer for whole voltage range	Anbotek Anbotek
Anbote	Input at mean value of range limits do not differ by more the value (A, VA, W)	nan 10 % from mea	in Ant	tek Anbotek Anbotek	P _{hhote}
hotek hotek	Marking includes long-time a momentary volt-ampere ration each plainly identified and in ACCOMPANYING DOCUMENTS	ngs when provided, dicated in		Anbotek Anbotek Anbotek Anbotek	potek N A



Anbotek	EN 60601-1	Anbotek Anbor	notek notek
Clause	Requirement Test	Result - Remark	Verdict
ek Anbote botek	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):	anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Nanbor
7.2.8	Output connectors	An botek Anbotek	Ny
7.2.8.1	See 16.9.2.1 b) for MULTIPLE SOCKET-OUTLETS integral with ME EQUIPMENT	ek Anbotek Anbotek	Anbotek Anbotek
7.2.8.2	Output connectors are marked, except for MULTIPLE SOCKET-OUTLETS or connectors intended for specified ACCESSORIES or equipment	botek Anbotek Anbotek Anbote	k N _{Anbote}
otek P	Rated Voltage (V), Rated Current (A):	Anbotek Anbot Att	_
Anboten	Rated Power (W), Output Frequency (Hz)	Anbotek Anbox	_
7.2.9 Anbote	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)	ek Anbotek Anbotek	Notek Anbotel
7.2.10 km²	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):	Anbotek Anbotek Anb	nbotek Anbr
	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	Anbotek Anbotek Anbotek	Anbotek Anbotek
otek Ar	TYPE BF APPLIED PARTS with symbol 20 of Table D.1 (IEC 60417-5333, DB: 2002-10)	Anbotek Anbotek Anb	botek P And
inbotek hotek	TYPE CF APPLIED PARTS with symbol 21 of Table D.1 (IEC 60417-5335, DB: 2002-10)	Anbotek Anbotek	Anbo'N'
Anbotek	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):	otek Anbotek Anbotek	ArN Anbotek
nbotek An	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	Anbotek Anbotek Anbotek Anbotek	hotek Ar
Anbotek Anbot	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	otek Anbotek Anbotek	Anhotek Anhotek
ter And	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:	Anbotek Anbotek Arbotek Arbotek	Anbotek And
7.2.11	ME EQUIPMENT not marked to the contrary assumed to be suitable for CONTINUOUS OPERATION	tek Anbotek Anbotek	Anbotek Anbotek



Anboten	EN 60601-1	k Anbotek Anbo	hotek
Clause	Requirement Test	Result - Remark	Verdict
Anbote	Anbor An Botek Anborek Anb	stek upotek Anboto	K NO
ek Ant	DUTY CYCLE for ME EQUIPMENT intended for non- CONTINUOUS OPERATION appropriately marked to provide maximum "on" and "off" time	Anbotek Anbotek Anbot	otek An
7.2.12	Type and full rating of a fuse marked adjacent to ACCESSIBLE fuse-holder	Anbotek Anbotek	Anbotek P
nbotek	Fuse type	ek abotek Anbote	_
hote	Voltage (V) and Current (A) rating	lek botek Anboter	_
2K 20	Operating speed (s) and Breaking capacity:	<1 s And Andorr	_
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	Anbotek Anbotek Anbotek Anbotek Anbotek	otek P Ani
Anbotel Anbotel	Nature of HAZARD and precautions for avoiding or minimizing the associated RISK described in instructions for use	Dotek Anbotek Anbotek	Anbott
7.2.14	HIGH VOLTAGE TERMINAL DEVICES on the outside of ME EQUIPMENT accessible without the use of a TOOL marked with symbol 24 of Table D.1 (symbol IEC 60417-5036, DB: 2002-10)	Anbotek Anbotek Anb	nbotek
7.2.15	Requirements for cooling provisions marked (e.g., supply of water or air):	ak Anbotek Anbotek	Anbotek
7.2.16	ME EQUIPMENT with limited mechanical stability	ote Annotek Anbote	P.nbox
7.2.17	Packaging marked with special handling instructions for transport and/or storage:	Anbotek Anbotek Anb	otek P Ant
inbotek tek	Permissible environmental conditions for transport and storage marked on outside of packaging	Transfer and storage humidity is from 25% to 90%.	Anbotek
Anbotek Anbotek	Packaging marked with a suitable safety sign indicating premature unpacking of ME EQUIPMENT could result in an unacceptable RISK	otek Anbotek Anbotek	An Nitek
stek Anto	Packaging of sterile ME EQUIPMENT OF ACCESSORIES marked sterile	Anbotek Anbotek Anbo	lek P Aup
7.2.18	RATED maximum supply pressure from an external source marked on ME EQUIPMENT adjacent to each input connector	Anbotek Anbotek A	Anbotek Anbotek
7.2.19	Symbol 7 of Table D.1 (IEC 60417-5017, DB:2002-10) marked on FUNCTIONAL EARTH TERMINAL	otek Anbotek Anbotek	Anhotek Anhotek
7.2.20 km	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:	Anbotek Anbotek Anbotek Anbo	lek N Anbo
notek	No marking applied when an interlock provided	Anto tek anbotek	Anbore N
7.3	Marking on the inside of ME EQUIPMENT OF ME EQUIPM	ENT parts	Anhote



Anbotek	EN 60601-1	k anbotek Anbote	An. hotek
Clause	Requirement Test	Result - Remark	Verdict
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)	Anbotek Anbotek Anbotek Anbotek Anbotek	otek Nanbote
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
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	botek Anbotek Anbotek Anbote	k P Anbote
7.3.3	Type of battery and mode of insertion when applicable is marked:	Anbotek Anbotek An	anbote/N
Anbotek Anbotek	An identifying marking provided referring to instructions in ACCOMPANYING DOCUMENTS for batteries intended to be changed only by SERVICE PERSONNEL using a TOOL	ek Anbotek Anbotek	Anbotek Anbotek
ootek Anbre	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)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek N Anbr
Anbotek	An identifying marking also provided referring to instructions in ACCOMPANYING DOCUMENTS:	ak Anbotek Anbotek	Notek
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	Anbotek Anbotek Anbotek	Pupote Notek Anbo
anbotek	Туре	nbotek Anbote A	_
anbotek	Voltage (V) and Current (A) rating:	k mbotek Anbote	_
mbotek	Operating speed (s) and Breaking capacity:	<1s Anbote	_
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	Anbotek Anbotek Anbotek Anbotek	tek Anbo
Anbotek Anbotek	Markings on or adjacent to PROTECTIVE EARTH TERMINALS not applied to parts requiring removal to make the connection, and remained visible after connection made	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
7.3.6 Anbot	Symbol 7 of Table D.1 (IEC 60417-5017, DB: 2002 -10) marked on FUNCTIONAL EARTH TERMINALS	hotek Anbotek Anbote	ek Nne Anbot
7.3.7 An	Terminals for supply conductors marked adjacent to terminals, except when no HAZARD would result when interchanging connections	Anbotek Anbotek An	potek P An'
Anbotek	Terminal markings included in ACCOMPANYING DOCUMENTS when ME EQUIPMENT too small to accommodate markings	Anbotek Anbotek	Ant Nek



Anbote	EN 60601-1	Anbotek Anbo	botek
Clause	Requirement Test	Result - Remark	Verdict
Aupote	- Aupor Ali Apotek Aupoten Aupo	otek Anbotek Anbote	Y NO
sk Aup	Terminals exclusively for neutral supply conductor in PERMANENTLY INSTALLED ME EQUIPMENT marked with Code 1 of Table D.3 (Code in IEC 60445)	Anbotek Anbotek Anbor	otek An
anbotek p	Marking for connection to a 3-phase supply, if necessary, complies with IEC 60445	Anbotek Anbotek	Anbote N
Anbotek Anbotel	Markings on or adjacent to electrical connection points not applied to parts requiring removal to make connection, and remained visible after connection made	botek Anbotek Anbotek	Anbotek Anbotek
7.3.8 Amotek	"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	Anbotek Anbotek Antotek Anbotek Anbotek	otek P An Anbotek
Anbotek	Statement not applied to parts requiring removal to make the connection, and CLEARLY LEGIBLE after connections made	botek Anbotek Anbotek	ANDOR
7.4	Marking of controls and instruments	Anbore And	otek N Ani
7.4.1 nbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek Anbotek Anbotek
An.	- indicated by an adjacent indicator light, or	oter And otek anbote	Nupor
Ann	- indicated by other unambiguous means	Anbotek Anbo tek nb	itek P Ant
hotek Ar	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	Anbotek Anbotek A	nbotek N
Anbolo	status indicated by adjacent indicator light	k Anbotes Anbotek	Mick
Aupoter	status indicated by other unambiguous means	otek Anboten Anbo	N _{nb} ote
tek An	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	Anbotek Anbotek Anbo	tek N Anb
botek	status indicated by adjacent indicator light	Anborek Anboren A	N
abotek	status indicated by other unambiguous means	k botek Anbotek	Anbo N _{tek}
7.4.2 Ambotek	Different positions of control devices/switches indicated by figures, letters, or other visual means	otek Anbotek Anbotek	Anbotel Anbotel
ek Anbo	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek N Anbr
Anbotek	 an indication of direction in which magnitude of the function changes 	Anbotek Anbotek	Anbotek



Anboten	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
7.4.3	Numeric indications of parameters on ME EQUIPMENT expressed in SI units according to ISO 31 except the base quantities listed in Table 1 expressed in the indicated units	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	potek Ar
Anbotek	ISO 1000 applied for application of SI units, their multiples, and certain other units	Anbotek Anbotek	Anbolsk Anbolsk
Anboth	All Markings in Sub-clause 7.4 complied with tests and criteria of 7.1.2 and 7.1.3	otek Anbotek Anbotek	K Booter
7.5	Safety signs	tek hotek Anbor	PART
otek obotek	Markings used to convey a warning, prohibition or mandatory action mitigating a RISK not obvious to OPERATOR are safety signs from ISO 7010	Anbotek Anbotek Ant	nbotek P An
Anbotek Anbotek	Affirmative statement together with safety sign placed in instructions for use if insufficient space on ME EQUIPMENT	ek Anbotek Anbotek	Anbotek Anbotek
ik Ant	Specified colours in ISO 3864-1 used for safety signs	Anbotek Anbotek Anbote	otek Panti
otek	Safety notices include appropriate precautions or instructions on how to reduce RISK(S)	Anbotek Anbotek An	inpotekN
Anbotek	Safety signs including any supplementary text or symbols described in instructions for use	ek Anbotek Anbotek	Anbotek 1botek
7.6 Anbote	Symbols	otek Anbotek Anbo	Pabore
7.6.1 And	Meanings of symbols used for marking described in instructions for use	Anbotek Anbotek Anbo	tek P Ani
7.6.2	Symbols required by this standard conform to IEC or ISO publication referenced	Anbotek Anbotek A	nbotek N
7.6.3 1ek	Symbols used for controls and performance conform to the IEC or ISO publication where symbols are defined, as applicable	k Anbotek Anbotek	Anbotek Anbotek
7.7	Colours of the insulation of conductors	tek abotek Anbote	P
7.7.1	PROTECTIVE EARTH CONDUCTOR identified by green and yellow insulation	Anbotek Anbotek Anbr	P And
7.7.2	Insulation on conductors inside ME EQUIPMENT forming PROTECTIVE EARTH CONNECTIONS identified by green and yellow at least at terminations	Anbotek Anbotek A	Anbote ^K
7.7.3	Green and yellow insulation identify only following conductors:	otek Anbotek Anbotek	Panbotel
N. A.	- PROTECTIVE EARTH CONDUCTORS	nboth Annotek Anbo	ek P Anb
r A	- conductors specified in 7.7.2	Anbote, And Stek	botek N P
'poter	- POTENTIAL EQUALIZATION CONDUCTORS	Aupoter Aupo	Nodo
Aupotes	- FUNCTIONAL EARTH CONDUCTORS	Wholeh Whoo	Wek.



Anbore.	EN 60601-1	Anboter Anbo	botek
Clause	Requirement Test	Result - Remark	Verdict
7.7.4 Ambot	Neutral conductors of POWER SUPPLY CORDS are "light blue" specified in IEC 60227-1 or IEC 60245-1	hotek Anbotek Anbotek Anbotek Anbotek	PANDO
7.7.5	Colours of conductors in POWER SUPPLY CORDS in accordance with IEC 60227-1 or IEC 60245-1	PVC cable complied with IEC 60227-1	Anbotek P
7.8 nbotek	Indicator lights and controls	tek abotek Anbotes	Anb P stek
7.8.1	Red indicator lights mean: Warning (i.e., immediate response by OPERATOR required)	botek Anbotek Anboten	k Anbo
stek Ant	Yellow indicator lights mean: Caution (i.e., prompt response by OPERATOR required)	Anbotek Anbotek Ant	otek N A
tek.	Green indicator lights mean: Ready for use	Aupor Au	Anboten N
Anbotek	Other colours, if used: Meaning other than red, yellow, or green (colour, meaning):	ek Anbotek Anbotek	Anb N
7.8.2 mo ^{te}	Red used only for emergency control	otek Anbotek Anbote	P
7.9 _{amb}	ACCOMPANYING DOCUMENTS	otek anbotek Anbote	P ^{Ani}
7.9.1	ME EQUIPMENT accompanied by documents containing at least instructions for use, and a technical description	Anbotek Anbotek Anb	nbotek P Ar
Anbotek	ACCOMPANYING DOCUMENTS identify ME EQUIPMENT by the following, as applicable:	an Anbotek Anbotek	Anbotek
Anbore	Name or trade-name of MANUFACTURER and an address the RESPONSIBLE ORGANIZATION can be referred to	otek Anbotek Anbotek	, Panbot
ptek A	- MODEL OF TYPE REFERENCE	Anbotek Anbote Am	hotekP
Anbotek Anbotek	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)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
tek Anbo	ACCOMPANYING DOCUMENTS specify special skills, training, and knowledge required of OPERATOR or RESPONSIBLE ORGANIZATION and environmental restrictions on locations of use	Anbotek Anbotek Anbo	tek P Ani
Anbotek	ACCOMPANYING DOCUMENTS written at a level consistent with education, training, and other needs of individuals for whom they are intended	Anbotek Anbotek	Anbotek Anbotek
7.9.2	Instructions for use include the required information	or Am notek Ambotek	Pupper
'.9.2.1	- intended use of ME EQUIPMENT,	inport And And	ek P Anh
P.	- frequently used functions, and	Anbote. And atek	botek P
pote	known contraindication(s) to use of ME EQUIPMENT	Anboter Anbo hotek	Anbote



Aupoter	EN 60601-1	K Anbotek Anbo	hotek
Clause	Requirement Test	Result - Remark	Verdict
k Anbot	Classifications as in Clause 6, all markings per Clause 7.2, and explanation of safety signs and symbols marked on ME EQUIPMENT	Anbotek Anbotek Anbotek Anbotek Anbotek	PAnbo
nbotek	Instructions for use are in a language acceptable to the intended operator	Anbotek Anbotek	Anbotek P
.9.2.2	Instructions for use include all warning and safety notices	lek Anbotek Anbotek	Anbotek Anbotek
k Anh	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"	botek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Ar
Anbotek Anbotek	Warnings regarding significant RISKS of reciprocal interference posed by ME EQUIPMENT during specific investigations or treatments	ek Anbotek Anbotek	Anbotek Anbotek
Anbote	Information on potential electromagnetic or other interference and advice on how to avoid or minimize such interference	botek Anbotek Anbote	Anbot Anbot
	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"	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	mbotek N Andotek
Anbote'	The RESPONSIBLE ORGANIZATION is referred to this standard for the requirements applicable to ME SYSTEMS	Sotek Anbotek Anbotek	N Anboth
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"	Anbotek Anbotek Anb	nbotek N Anbotek
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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	And Anbote
botek Anbotek	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	Anbotek Anbotek A	Anbotek
Anboten	Specifications of replaceable INTERNAL ELECTRICAL POWER SOURCE when provided	otek Anbotek Anbotek	Npote
ek An	Warning indicating ME EQUIPMENT must be connected to an appropriate power source when loss of power source would result in an unacceptable RISK	Anbotek Anbotek Anbotek Arbotek	botek N And



Up.	Potek Anbore All Alex Anbotek	Vupo K Polek	Vipose.
Anbore	EN 60601-1	k Anbotes Anb	Motek
Clause	Requirement Test	Result - Remark	Verdict
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anb
Anbotek Anbotek	Information provided on materials and ingredients PATIENT OF OPERATOR is exposed to when such exposure can constitute an unacceptable RISK	lek Anbotek Anbotek	Anbotek Anbotek
ek Ant	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	Anbotek Anbotek Anbotek Anbotek	otek Anb
Anbotek	APPLIED PARTS specified	Anbotek Anbot	ri. PSK
7.9.2.6	Information provided indicating where the installation instructions may be found or information on qualified personnel who can perform the installation	ootek Anbotek Anbotek	Anbotek Anbotek
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)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Upotek V V V
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	A P Anbotek
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	Anbotek Anbotek Anbotek	Anbotek Anbotek
k Anbo	Meanings of figures, symbols, warning statements, abbreviations and indicator lights described in instructions for use	Anbotek Anbotek Anbotek Anbote	tek Prima
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	Anbotek Anbotek Anbotek	Anbotek Anbotek
7.9.2.11	Information provided for the OPERATOR to safely terminate operation of ME EQUIPMENT	Inbotek Anbotek Anbote	ek P Anbot
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	Anbotek Anbotek Ar Anbotek Anbotek Ar	hotek N Ant Anbotek



, nbotek	EN 60601-1	k abotek Anboten	Ann
Clause	Requirement Test	Result - Remark	Verdict
ek Antotek	Components, ACCESSORIES or ME EQUIPMENT marked for single use, except when required by MANUFACTURER to be cleaned, disinfected, or sterilized prior to use	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Botek An
7.9.2.13	Instructions provided on preventive inspection, calibration, maintenance and its frequency	Anbotek Anbotek	Anbotek
Anbote Anbote	Information provided for safe performance of routine maintenance necessary to ensure continued safe use of ME EQUIPMENT	hotek Anbotek Anbotek	ek Anbot
ootek And	Parts requiring preventive inspection and maintenance to be performed by SERVICE PERSONNEL identified including periods of application	Anbotek Anbotek An	Anbotek
Anbotek Anbotek	Instructions provided to ensure adequate maintenance of ME EQUIPMENT containing rechargeable batteries to be maintained by anyone other than SERVICE PERSONNEL	lek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbote
7.9.2.14	A list of ACCESSORIES, detachable parts, and materials for use with ME EQUIPMENT provided	Anbotek Ann	ootek P Ant
Anbotek Anbotek	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)	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
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	Anbotek Anbotek Anbotek Anbotek	otek Anb
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)	ok Anbotek Anbotek	Anbotek Anbotek
7.9.3	Technical description	bote. And otek Anbote	B upore
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:	Anbotek Anbotek Anb	ahotek A
Anbotek	– information as in clause 7.2	ek nbotek Anbotes	Prek
Anbotek	permissible environmental conditions of use including conditions for transport and storage	otek Anbotek Anboten	Anbotek Anbotek
rtek Antio	all characteristics of ME EQUIPMENT including range(s), accuracy, and precision of displayed values or where they can be found	Anbotek Anbotek Anb	rbotek N Anbo
hotek	special installation requirements such as max. permissible apparent impedance of SUPPLY MAINS.	Anbotek Anbotek	Anbot N ek



anbotek .	EN 60601-1	Anbotek Anbotek	Ambote
Clause	Requirement Test	Result - Remark	Verdict
4 2000	k Anboth And tok aboth Anb	by botek Aupoten	Augo
otek Yu	 permissible range of values of inlet pressure and flow, and chemical composition of cooling liquid used for cooling 	Anbotek Anbotek Anbot	otek Ant
Anbotek otek	 a description of means of isolating ME EQUIPMENT from SUPPLY MAINS, when such means not in ME EQUIPMENT 	Anbotek Anbotek	Anbotek Anbotek
Anbote	 a description of means for checking oil level in partially sealed oil filled ME EQUIPMENT or its parts when applicable 	lotek Anbotek Anbotek	k Anbote
botek An	a warning statement addressing HAZARDS that can result from unauthorized modification of ME EQUIPMENT according to following examples	Anbotek Anbotek Anbotek	otek P Anb
Anbotek	"WARNING: No modification of this equipment is allowed"	ek anbotek Ambotek	Anb Per notek
Anbote	"WARNING: Do not modify this equipment without authorization of the manufacturer"	ootek Anbotek Anbote	Anbotel Anbotel
potek Anb	"WARNING: If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of equipment"	Anbotek Anbotek Anbotek Anbotek	otek N Anbr
Anbotek	Technical description separable from instructions fo information, as follows	r use contains required	Anbotek Anbotek
Anbote	– information as in clause 7.2	otek Anbote K Ani	- Panbotek
otek Vupe	 all applicable classifications in Clause 6, warning and safety notices, and explanation of safety signs marked on ME EQUIPMENT 	Anbotek Anbotek Anb	botek Anbe
Anbotek Anbotek	a brief description of ME EQUIPMENT, how it functions, and its significant physical and performance characteristics	Anbotek Anbotek	Anbotek Anbotek
Anbore Anbo	MANUFACTURER'S optional requirements for minimum qualifications of SERVICE PERSONNEL documented in technical description	otek Anbotek Anbotek	Photek Anbotek
7.9.3.2	The technical description contains the following requ	uired information	Lotek P
Anbotek Anbotek Anbotek	-type and full rating of fuses used in SUPPLY MAINS external to PERMANENTLY INSTALLED ME EQUIPMENT, when type and rating of fuses are not apparent from information on RATED current and mode of operation of ME EQUIPMENT	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
otek Anbotek	- 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	Anbotek Anbotek Anbotek Anbo	ek N Anbot



Anboten	EN 60601-1	Anbotek Anbo	hotek
Clause	Requirement Test	Result - Remark	Verdict
not!	Aupor Aupor Auporen Aup	tek phote	Ans
lotek Ani	instructions for correct replacement of interchangeable or detachable parts specified by MANUFACTURER as replaceable by SERVICE PERSONNEL, and	Anbotek Anbotek Anbotek Anbotek	Sotek Ant
Anbotek Anbotek Anbote	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	lek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
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	Anbotek Anbotek Anto	otek N Anb
7.9.3.4	Means used to comply with requirements of 8.11.1 clearly identified in technical description	ek Anbotek Anbotek	Anbotek P

8	PROTECTION AGAINST ELECTRICAL HAZARD	S FROM ME EQUIPMENT	Р
8.1 ^k	Limits specified in Clause 8.4 not exceeded for ACCESSIBLE PARTS and APPLIED PARTS in NORMAL or SINGLE FAULT CONDITIONS	Anbotek Anbotek Ant	nbotek A
Anbotel	NORMAL CONDITION considered as simultaneous occurrence of situations identified in 8.1a)	3k Wipotek Wipoter	Anbotek Anbotek
k Anbe	SINGLE FAULT CONDITION considered to include the occurrences as specified in Clause 8.1b):	botek Anbotek Anbote	P _{Anbote}
,ek	ACCESSIBLE PARTS determined according to 5.9	Anbo ek abotek Anb	P And
18K	LEAKAGE CURRENTS measured according to 8.7	Aupor An Hotek	nbote P A
8.2	Requirements related to power sources	Anbote And notek	Anbolek
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	Notek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
nbotek	Tests performed with ME EQUIPMENT connected to separate power supply when one specified	Anbotek Anbotek A	hotek N A
Anbotek Anbotek	When a generic separate power supply specified, specification in ACCOMPANYING DOCUMENTS examined	otek Anbotek Anbotek	Anbotek Anbotek
8.2.2 AN	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	Anbotek Anbotek Anbotek Anbotek Anbotek	ek N Anbo
, nbotek	ME EQUIPMENT connected with correct polarity did not present an unacceptable RISK	Anbotek Anbotek	Anbotek Notek
Anbot	Protective devices that can be reset by anyone without a TOOL restore correct operation on reset	otek Anbotek Anbotek	Anbotek Anbotek
20	bo. M. Wiles William	tek poet An	× -01



Anboten	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
8.3 Ambot	Classification of APPLIED PARTS	Inbotek Anbotek Anbot	ek PAnbott
hotek An	a) APPLIED PART specified in ACCOMPANYING DOCUMENTS as suitable for DIRECT CARDIAC APPLICATION is TYPE CF	Anbotek Anbotek An	otek N Anh
Anbotek Anbotek	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	ek Anbotek Anbotek	Anb Nek Anbotek
rek Au	c) An APPLIED PART not covered by a) or b) is a TYPE B, BF, or CF	Anbotek Anbotek Anbot	otek PAnb
Anbotek Anbotek	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)	Anbotek Anbotek	Anbotek
Anbote	Requirements for a TYPE BF or CF APPLIED PART applied as in RISK MANAGEMENT PROCESS	ek Anbotek Anbotek	AlBotek
8.4	Limitation of voltage, current or energy	hotek Anbote	Panis
8.4.1	PATIENT CONNECTIONS intended to deliver Current	Anbot Ant hotek Ant	P And
Anbotek Anbotek	Limits in 8.4.2 not applied to currents intended to flow through body of PATIENT to produce a physiological effect during NORMAL USE	Anbotek Anbotek	Inbotek A
8.4.2	ACCESSIBLE PARTS including APPLIED PARTS	rek Anbo ok An hotek	A/Pores
otek Anbar	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anb	nek Anbo
Anbotek Anbotek	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)	otek Anbotek Anbotek	Anbotek Anbotek
otek Anbrotek	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	Anbotek Anbote	lek N Anbo
"Upo	- accessible contacts of connectors	Aupo. Ar. botek	AnboreN
Anbotek	contacts of fuseholders accessible during replacement of fuse	Anbotek Anbotek	AnNie
k Anbo	contacts of lampholders accessible after removal of lamp	hbotek Anbotek Anbotek	lek N Anbot
Anbotek Anbotek	 parts inside an ACCESS COVER that can be opened without a TOOL, or where a TOOL is needed but the instructions for use instruct an OPERATOR other than SERVICE PERSONNEL to open the relevant ACCESS COVER 	Anbotek Anbotek Arbotek Arbotek	Anbotek



Anboten	And Lok abotek Anbot	EN 60601-1	Anbotek Anbo	hotek
Clause	Requirement Test		Result - Remark	Verdict
ek Anhote	Voltage to earth or to other ACCESS not exceed 42.4 V peak a.c. or 60 v parts in NORMAL or single fault cond.c.)	V d.c. for above	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Nanbot
Anbotek Anbotek	Limit of 60 V d.c applied with no more peak-to-peak ripple, and when ripp specified value, 42.4 V peak limit a	le larger than	ek Anbotek Anbotek	Anbotek Anbotek
Anbote Anb	Energy did not exceed 240 VA for lor stored energy available did not expotential up to 2 V (VA or J)	exceed 20 J at a	botek Anbotek Anbot	k P Anbott
otek Anbotek	LEAKAGE CURRENT limits referred to applied when voltages higher than were present (mA)	limits in 8.4.2 c)	Anbotek Anbotek Anbotek	Inbotek N
Anbotek	d) Voltage and energy limits specifialso applied to the following:	ied in c) above	ek Anbotek Anbotek	Anbotek Anbotek
otek Anb	internal parts, other than contacts connectors and socket-outlets, touch pin in Fig 8 inserted through an open ENCLOSURE; and	chable by test	Anbotek Anbotek Anbotek Anbote	otek Anb
Anbotek Anbotek Anbotek	 internal parts touchable by a met a diameter of 4 mm and a length of inserted through any opening on to or through any opening provided for pre-set controls using a TOOL 	f 100 mm, p of ENCLOSURE	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
k Aupo	Test pin or the test rod inserted thropenings with minimal force of no r		Anbotek Anbotek Anb	otek P Anb
Anbotek A.	Test rod inserted in every possible through openings provided for adjuset controls that can be adjusted in with a force of 10 N	stment of pre-	Anbotek Anbotek Anbotek	nbotek N Anbotek
Anboten	Test repeated with a TOOL specified for use	d in instructions	otek Anbotek Anbotel	N Anbotel
stek An	Test rod freely and vertically suspe openings on top of ENCLOSURE	nded through	Anbotek Anbotek Anbr	cek N Anbr
Anbotek Anbotek	e) Devices used to de-energize par ACCESS COVER opened without a TO access to parts at voltages above I by this Clause comply with 8.11.1 f isolating switches and remain effect FAULT CONDITION	OOL gives evels permitted or mains	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
tek An	A TOOL is required when it is possible the devices from operating	ole to prevent	nbotek Anbotek Anbo	otek N Anbo
8.4.3	Worst case voltage between pins of between either supply pin and ENCI exceed 60 V one s after disconnec ME EQUIPMENT or its parts (V)	LOSURE did not ting the plug of	See appended Table 8.4.3	Anbotek Anbotek



Anbore	And tek abotek	EN 60	601-1	Anbotek Anbo	botek
Clause	Requirement Test	Anhotel	Anbo	Result - Remark	Verdict
bote	k Aupor Au	ek spoten	Anbe	or notek Anbore	Ans
ek Aut	A triggering circuit used to occurred at peak of supply			hotek Anbotek Anbo	tek NAnbo
potek	When voltage exceeded 60 measured stored charge di			Anbotek Anbotek Ar	Anbote N
Anbotek	Residual voltage of conduction circuits, having become accepulpment was de-energiz ACCESS COVERS, didn't exception conduction control	cessible after ME ed after removal eed 60V or calcu	of no	tek Anbotek Anbotek hotek Anbotek Anbotek	Anbotek Anbotek
otek And	A device manually discharge when automatic dischargin ACCESS COVERS could be real TOOL	g was not possib	le and	Anbotek Anbotek An	Anbotek Anbotek
Anbotek Anbotek	Capacitor(s) and connected symbol 24 of Table D.1 (IE 2002-10), and manual disc specified in technical description	C 60417-5036, D harging device		ek Anbotek Anbotek Anbotek	Anbotek Anbotek
8.5	Separation of parts	tek nbot	ek	Anbor An	oter P And
8.5.1	MEANS OF PROTECTION (MO	P)		Anbore And And	nnbotek P A
8.5.1.1	Two MEANS of PROTECTION EQUIPMENT to prevent APPL ACCESSIBLE PARTS from exc	IED and other	Anbotek 3.4 nbot	Anbotek Anbotek	Anbořek Anbořek
k Anbote Arbo	Each MEANS OF PROTECTION MEANS OF PATIENT PROTECT OPERATOR PROTECTION, tak 4.6, and flow chart in Fig A	TION or a MEANS C ling into account	F An	Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anbo
Anbotek Anbotek	Varnishing, enameling, oxic protective finishes and coa compounds replasticizing a expected during operation disregarded as MEANS OF P	tings with sealing at temperatures and sterilization		Anbotek Anbotek Anbotek Anbotek Otek Anbotek	Anbotek Anbotek
Anbotek An	Coatings and other insulation of PROTECTION complying considered acceptable as a PROTECTION but not automated patient protection	with IEC 60950-1 A MEANS OF OPER	:2001 ATOR	Anbotek Anbotek Anbotek Anbo	abotek Arbotek
Anbotek	RISK MANAGEMENT PROCESS consideration for MEANS OF		TION DOTE	k Anbotek Anbotek	Anborek Anborek
Anbot	Components and wiring for PROTECTION comply with 8.		K Anb	botek Anbotek Anbotel	Ribore
hotek Anbotek	Insulation, CREEPAGE, CLEAr earth connections not compa.5.1.3 not considered as Mand failure of these parts recondition	plying with 8.5.1.2 MEANS OF PROTEC	2 and TION,	Anbotek Anbotek Anbotek Anbotek	Anbotek N
8.5.1.2	MEANS OF PATIENT PROTECT	ION (MOPP)	And	botek Anbot	P stek



abotek	EN 60601-1	Anbotek Anbotek	Arbora P
Clause	Requirement Test	Result - Remark	Verdict
otek Anbote	Solid insulation forming a MEANS OF PATIENT PROTECTION complied with dielectric strength test of Clause 8.8 at test voltage of Table 6	Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	Anbout Sotek Anb
hotek p	CREEPAGE and CLEARANCES forming a MEANS OF PATIENT PROTECTION complied with Table 12	Anbotek Ambotek	Anbotek I
Anbotek	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF PATIENT PROTECTION complied with Cl. 8.6	ek Anbotek Anbotek	Anbotek Anbotek
potek Aup	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	botek Anbotek Anbotek Anbotek Anbote	N N Anbote
Anbotek Anbotek	Two capacitors used in series, each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance	ek Anbotek Anbotek	Anbotek Anbotek
Anbotek	Voltage _{Total} working (V) and C _{Nominal} (μF):	otek anbotek Anbote	_
8.5.1.3	MEANS OF OPERATOR PROTECTION (MOOP)	botek Anbotek Anbote	PART
potek A	Solid insulation forming a MEANS OF OPERATOR PROTECTION complied with:	Anbotek Anbotek Anb	orek V
Anbotek	dielectric strength test of 8.8 at test voltage of Table 6; or	Anbotek Anbotek	Aupo Br
Anbotek	- requirements of IEC 60950-1 for INSULATION CO- ORDINATION	otek Anbotek Anbotek	ArP ^{ore}
tek Anbo	CREEPAGE and CLEARANCES forming a MEANS OF OPERATOR PROTECTION complied with:	Anbotek Anbotek Anbo	hek P Anbe
PL DOLL	- limits of Tables 13 to 16 (inclusive); or	Anbote, And And	nbotek P A
Anbotek	- requirements of IEC 60950-1 for INSULATION CO- ORDINATION	Anbotek Anbotek	Anbo'P'
Anbotek	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF OPERATOR PROTECTION complied with Cl. 8.6, or	otek Anbotek Anbotek	Anbotek Anbotek
ek Anbo	requirements and tests of IEC 60950-1 for protective earthing:	Anbotek Anbotek Anbo	tek N Aupo
Anbotek Anbotek	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	Anbotek Anbotek Anbotek	Anbotek
otek Anbote	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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N _{hotek} ek Anbot
Anbotek Anbotek	Two capacitors used in series each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance	Anbotek Anbotek	Anbotek
Anbore	Voltage Total Working (V) and C Nominal (μF)	See above	_



Anbotek	Anbore And hotek	EN 606	01-1	A. nbotek	Anbote.	Anna
Clause	Requirement Test	Anbotek	Aupo	Result - Remark	Aupora.	Verdict
lek Anbotek	Points at which impedance CREEPAGE, CLEARANCES, PROUNTECTIONS or insulation, PARTS from exceeding limit whether a failure at any of regarded as a NORMAL or S	ROTECTIVE EARTH prevent ACCESSIB s in 8.4 examined these points is to I	be ^{tek}	Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek Anbotek Andotek	Anbotek Anbotek
Anbote Anbote	A MEANS OF PROTECTION pror parts identified by 4.6 as same requirements, consider PROTECTION	parts subject to the parts of PA	he Anbo	botek Anbotek	Anbotek Anbotek	R Anbotek
ipotek b	A MEANS OF PROTECTION pr considered MEANS OF OPER			Anbotek Ar	hotek Ant	ote P An
8.5.2	Separation of PATIENT CON	NECTIONS	, otek	anbotek	Anbor	P. B.k
8.5.2.1	PATIENT CONNECTIONS of Face separated from all other parties of Patient Protect Voltage equal to maximum complied with limit for Paties 110 % of max. Mains Voltage Paties 110 % of max.	irts by equivalent t FION for a WORKING IN MAINS VOLTAGE a ENT LEAKAGE CURR	o one and	anbotek Anbotek	Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek Anbotek
Aupotek	Separation requirement no multiple functions of a sing			Anbotek An	Anbotek A	nbotek N
Anbotek Anbotek	PATIENT CONNECTIONS treat in the absence of electrical PATIENT CONNECTIONS of sa	separation betwe	en noo	otek Anbotek	Anbotek	Notek Anbotek
otek Anbo	MANUFACTURER has define are to be considered as all PART or as multiple APPLIED	within one APPLIE		Anbotek Anbot	potek Anbe	hotek N Ant
Anbotek	Classification as TYPE BF, C		ON-tek	Anbotek	Anboro A	Anbot Br
Anbergiek	LEAKAGE CURRENT tests co	nducted per 8.7.4.	ofed _{n,A}	Anbou	Abotek	AnPorter
Anbo	Dielectric strength test con-	ducted per 8.8.3		otek Anbo	ek wotek	Rubote
otek Anbo	CREEPAGE and CLEARANCES Tables 11 to 16 as applical		9 and	inbotek Anbot	otek Anbo	tek P Anb
Anbotek Anbotek	A protective device connections of an F-TYPE ENCLOSURE to protect again did not operate below 500	APPLIED PART and nst excessive volta	*Otek	Anbotek Anbotek	Anbotek Anbotek	Anbotek Anbotek
8.5.2.2	PATIENT CONNECTIONS of a not PROTECTIVELY EARTHED MEANS OF PATIENT PROTECT ACCESSIBLE PARTS not PROTECT	are separated by TION from metal	one	nbotek Anbotek	otek Anborek	N _n botel ek Anbr
Anbotek Anbotek	except when metal ACCES close to APPLIED PART and part of APPLIED PART; and			Anbotek A	Anbotek Ar	Anbotek



Anbote.	EN 60601-1	k Anboten Anbo	hotek
Clause	Requirement Test	Result - Remark	Verdict
ak Anbok	RISK that metal ACCESSIBLE PART will make contact with a source of voltage or LEAKAGE CURRENT above permitted limits is acceptably low	anbotek Anbotek Anbotek Anbotek Anbotek	N Anbot
10th	LEAKAGE CURRENT tests conducted per 8.7.4:	Anbote K And Lotek	Anbote N
'upore	Dielectric strength test conducted per 8.8.3	Anbotes And Otek	Nok
Anbote	Relevant CREEPAGE and CLEARANCES measured per 8.9 and Tables 11 to 16 as applicable	lek Anbotek Anbotek	Motek
k k	The RISK MANAGEMENT FILE reviewed	bote Ambotek Anbot	NAupor
3.5.2.3	A connector on a PATIENT lead located at the end of with conductive part not separated from all PATIENT PATIENT PROTECTION for a WORKING VOLTAGE equal to	CONNECTIONS by one MEANS OF	otek N An
Anbotek Hotel	- cannot be connected to earth or hazardous voltage while the PATIENT CONNECTIONS are in contact with PATIENT	ek Anbotek Anbotek	Anbotek
Anb Anb	- 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	Anbotek Anbotek Anbotek Anbotek Anbotek	Ninbor otek Anb
nbotek	CLEARANCE between connector pins and a flat surface is at least 0.5 mm	Anbotek Anbotek	Aupo NK
Anbotel Anbotel	 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 	Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	ANOte Anbotel
Anbotek Anbotek	- 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 socket or a flat surface:	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek
3.5.3 Anbo	MAXIMUM MAINS VOLTAGE	abotek Anbote Ano	tek P nbc
hotek Ar	- 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)	Maximum mains voltage: 240 Vac	Anbotek A
Anbota	When less than 100 V, MAXIMUM MAINS VOLTAGE was 250 V	otek Anbotek Anbotek	Nabotek
ek Ar	MAXIMUM MAINS VOLTAGE was the highest RATED phase to neutral supply voltage for poly-phase ME EQUIPMENT (V):	Anbotek Anbotek Anbo	potek Ar
Anbotek	– for other INTERNALLY POWERED ME EQUIPMENT, maximum mains voltage was 250 V	Anbotek Anbotek	Anborek
3.5.4	WORKING VOLTAGE	itek Anboten Anbo	Photek



Anboten	And abotek	EN 60	601-1	Anbotek Anbo	hotek.
Clause	Requirement Test	Anboten	Anbo	Result - Remark	Verdict
ek Anbote	Input supply voltage to M voltage or voltage within RA highest measured value (V)	ATED range result	ting in	Anbotek Anbotek Anbotek Anbot	otek Ant
Anbotek Anbotek	WORKING VOLTAGE for d.c superimposed ripple was a peak-to-peak ripple less the value or peak voltage wher exceeding 10% of average	verage value wh an 10% of averag n peak-to-peak ri	ge pple	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek
ootek Anb	- WORKING VOLTAGE for ea PROTECTION forming DOUBL VOltage DOUBLE INSULATION to (V)	E INSULATION was , as a whole, sub	jected	Anbotek Anbotek Anbotek Anbot	otek Ant
Anbotek Anbotek	 Intentional or accidental or regarded as a NORMAL CON VOLTAGE involving a PATIEN connected to earth 	IDITION for WORKI	NG	ek Anbotek Anbotek	Anbotek Anbotek
otek Anbrak	- WORKING VOLTAGE betwee CONNECTIONS of an F-TYPE ENCLOSURE was highest voinsulation in NORMAL USE in part of APPLIED PART (V)	APPLIED PART and Itage appearing a Itage appearing	across of any	Anbotek Anbotek Anbotek Anbotek Anbotek	Nabotek Anb
Anbotek Anbotek	WORKING VOLTAGE for DE APPLIED PARTS determined presence of defibrillation volume.	disregarding pos		ak Anbotek Anbotek	Anbotek Anbotek
otek Ar	WORKING VOLTAGE was evoltage in case of motors petween the point where a are connected together and conductors (V)	provided with cap winding and a ca d a terminal for e	acitors apacitor xternal	Anbotek Anbotek Anbotek Anbotek Anbotek	hotek Anb
8.5.5	DEFIBRILLATION-PROOF APPI	LIED PARTS	Aupote	k hotek Anbotek	Anber N.ek
8.5.5.1	Classification "DEFIBRILLATION PART" applied to one APPLIE but not separate functions	ED PART in its ent	irety,	otek Anbotek Anbotek	Anhotek Anhotek
nbotek An	Possibility of an OPERATOR such parts taken into consi MANAGEMENT PROCESS		k from	Anbotek Anbotek Anb	botek N
Anbotek Anbotek	Isolation of PATIENT CONNECT DEFIBRILLATION-PROOF APPL PARTS OF ME EQUIPMENT according to the control of the co	LIED PART from ot		otek Anbotek Anbotek	Anbotek Anbotek
Anbot	a) No hazardous electrical a discharge of cardiac defil			nbotek Anbotek Anbo	ek N Anbo
Anbotek Anbotek	b) ME EQUIPMENT complied requirements of this standa SAFETY and ESSENTIAL PERFEXPOSURE to defibrillation votime stated in ACCOMPANYIN	ard, providing BAS FORMANCE following and recovery and recovery the second seco	ing ery	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek



And	EN 60601-1	Aupo. A. Stok	Vupote.
Clause	Requirement Test	Result - Remark	Verdict
3.5.5.2	Means provided to limit energy delivered to a 100 Ω load to at least 90% of energy delivered to this load with ME EQUIPMENT disconnected:	Anbotek Anbotek Anbot	otek Nanbe
3.6	Protective and functional earthing and potential equ	alization of ME EQUIPMENT	nbotek P
3.6.1	Requirements of 8.6.2 to 8.6.8 applied	Anboten Anbo	No Nok
Anbote Anbote	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	botek Anbotek Anbotek	K Anbe
3.6.2	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek
k Anbote	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	ootek Anbotek Anbote Anbotek Anbotek Anbote	otek Anbo
anbotek Labotek	Screws for internal PROTECTIVE EARTH CONNECTIONS completely covered or protected against accidental loosening from outside:	Anbotek Anbotek	Inbotek Anbotek
Anbote!	Earth pin of APPLIANCE INLET forming supply connection to ME EQUIPMENT regarded as PROTECTIVE EARTH TERMINAL	Sotek Anbotek Anbotek	Ar Poten
	PROTECTIVE EARTH TERMINAL not used for mechanical connection between different parts of ME EQUIPMENT or securing components not related to protective or functional earthing	Anbotek Anbotek Anbotek Anb	nbotek
3.6.3 otek	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	otek Anbotek Anbotek Obotek Anbotek Anbotek	Anbotek Anbotek
3.6.4	a) PROTECTIVE EARTH CONNECTIONS carried fault currents reliably and without excessive voltage drop	Anbotek Anbotek Anb	ibotek N
Anbotek Anbotek Anbo	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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Ambote Anbote
3.6.5	Surface coatings	Anbor An botek Ar	potek N
Anbotek	Poorly conducting surface coatings on conductive elements removed at the point of contact	Anbotek Anbotek	Anborek
abotek	Coating not removed when requirements for	tek anbotek Anbote	N ie



Anboten	EN 60601-1	Anbotek Anbo	hotek.
Clause	Requirement Test	Result - Remark	Verdict
8.6.6	Plugs and sockets	hotek Anbotek Anbot	PAnbott
botek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbote	- applied also where interchangeable parts are PROTECTIVELY EARTHED	otek Anbotek Anbotek	K Poter
8.6.7	Terminal for connection of a POTENTIAL EQUALIZATIO	N CONDUCTOR	N
ootek p	Terminal is accessible to OPERATOR with ME EQUIPMENT in any position of NORMAL USE	Anbotek Anbotek Ani	otek N Am
Anbotek	RISK of accidental disconnection minimized in NORMAL USE	Anbotek Anbotek	Anbe N k
Anbote	Terminal allows conductor to be detached without a TOOL	ootek Anbotek Anbotek	AN Anbote
ek Anb	- Terminal not used for a PROTECTIVE EARTH CONNECTION	Anbotek Anbotek Anb	otek N Anb
Anbotek A	- Terminal marked with symbol 8 of Table D.1 (i.e., symbol IEC 60417-5021)	Anbotek Anbotek	inbote ^N N A
Anbotek Anbotek	Instructions for use contain information on function and use of POTENTIAL EQUALIZATION CONDUCTOR together with a reference to requirements of this standard	otek Anbotek Anbotek	Anbotek Anbotek
otek An	POWER SUPPLY CORD does not incorporate a POTENTIAL EQUALIZATION CONDUCTOR	Anbotek Anbotek Anb	stek N Anbe
8.6.8	FUNCTIONAL EARTH TERMINAL not used to provide a PROTECTIVE EARTH CONNECTION	Anbotek Anbotek A	Anboisk P
8.6.9	Class II ME EQUIPMENT	anboten Ann	AT Notek
k Anbor	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	otek Anbotek	Napotek (ek Anbo
Anbotek Anbotek	Two MEANS OF PROTECTION provided by insulation of internal screens and all internal wiring connected to them with a related explanation in technical description	otek Anbotek Anbotek	And Nek Anbotek
8.7	LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENT	Spoter And atek anbo	ek Panbo
8.7.1	a) Electrical isolation providing protection against electric shock limits currents to values in 8.7.3:	Anbotek Anbotek Ar	potek P An
Anbotek Anbotek	b) Specified values of EARTH LEAKAGE, TOUCH, PATIENT LEAKAGE, and PATIENT AUXILIARY CURRENTS applied in combination of conditions in appended Table 8.7	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek



	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
3.7.2 Amon	Allowable values specified in 8.7.3 applied under SINGLE FAULT CONDITIONS of 8.1 b), except	potek Anbotek Anbote	ek Panbol
ootek onbotek	where insulation used in conjunction with a PROTECTIVE EARTH CONNECTION, insulation short circuited only under conditions in 8.6.4 b)	Anbotek Anbotek An	Anbote N
Anbotek Anbot	the only SINGLE FAULT CONDITION for EARTH LEAKAGE CURRENT was interruption of one supply conductor at a time	lek Anbotek Anbotek	Anbotek Anbotek
otek Ani	- LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENT not measured in SINGLE FAULT CONDITION of short circuiting of one constituent part of DOUBLE INSULATION	Anbotek Anbotek Anbotek	otek PAIII
Anbotek Anbotek	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	ek Anbotek Anbotek	Anbotek Anbotek
3.7.3 pm	Allowable Values	botek Anbotek Anbo	P N
otek Inbotek	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	nbotekP An
Anbote Anbote	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	See appended Table 8.7	Aupote Aupote
hotek p	c) Touch current did not exceed 100 µA in NORMAL CONDITION and 500 µA in SINGLE FAULT CONDITION (I _{TNC} , I _{TSFC})	See appended Table 8.7	nbotek P h
Anbotek Anbotel	d) EARTH LEAKAGE CURRENT did not exceed 5 mA in NORMAL CONDITION and 10 mA in SINGLE FAULT CONDITION (lenc, lesfc)	See appended Table 8.7	Anbotek Anbotek
	Higher values of EARTH LEAKAGE CURRENT permitted for PERMANENTLY INSTALLED ME EQUIPMENT connected to a supply circuit supplying only this ME EQUIPMENT according to local regulations or IEC 60364-7-710	See appended Table 8.7	tek N Anb
Anbotek Anbotek	e) LEAKAGE CURRENTS, regardless of waveform and frequency, did not exceed 10 mA r.m.s. in NORMAL or in SINGLE FAULT CONDITION (measured with a non-frequency-weighted device	See appended Table 8.7	Prek Anbotek
3.7.4	LEAKAGE and PATIENT AUXILIARY CURRENTS measurements:	See appended Table 8.7	otek N Anbe
3.8	Insulation	botek Anbotes Ar	P



Anbole	Ann Tek Sporek	EN 606	301-1	Anboten Anbo	botek
Clause	Requirement Test	Anbote	Ano	Result - Remark	Verdict
3.8.1 And	Insulation relied on as MEAN including REINFORCED INSUL between parts of opposite pon SUPPLY MAINS side of macurrent release	ATION and insula olarity of MAINS I	tion PART	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbotek	Insulation exempted from te clause 4.8)	est (complies with	Anbotek	Anbotek Anbotek	Anb Protek
k Anbote	Insulation forming MEANS OF PROTECTION and complying INSULATION CO-ORDINATION 1	with IEC 60950-		botek Anbotek Anbot	k N Anbote
3.8.2	Distance through solid insul	ation or use of th	nin shee	t material	ne/P
Anbotek Anbotek	Solid insulation forming SUP REINFORCED INSULATION for VOLTAGE greater than 71 V	a PEAK WORKING	Anbotek	ek anbotek Anbotek	Anbotek Anbotek
anbotek	a) 0.4 mm, min, distance the	rough insulation,	or Anbe	tek nbotek Anbote	AP note
otek Anbo	b) does not form part of an subject to handling or abras USE, and comprised of:			Anbotek Anbotek Anbot	otek Anb
unbotek K	 at least two layers of mate appropriate dielectric streng 		d the	See appended Table 8.8.3	anbotek N
Anbotek Anbotek	three layers of material, for combinations of two layers appropriate dielectric strengers.	together passed	the moot	See appended Table 8.8.3	Anbotel Anbotel
otek Anbo	Dielectric strength test for o same as for one MEANS OF I SUPPLEMENTARY INSULATION	PROTECTION for	was	Anbotek Anbotek Ant	otek N Anbr
Anbotek K	Dielectric strength test for o same as for two MEANS OF F REINFORCED INSULATION	5.7	was	Anbotek Anbotek	Anbotek
Anbote Anbote	BASIC, SUPPLEMENTARY, and INSULATION required betwee components separated by it complying with a) or b), or b	n windings of wonterleaved insula	tion	otek Anbotek Anbotek Anbotek	P Anbotek
nbotek	c) Wire with solid insulation based enamel, complying w		ent	Anbotek Anbotek A	hotek A
Anbotek Anbotek	d) Wire with multi-layer extr wrapped insulation complying complying with Annex L		Anbote	Anbotek Anbotek	Anb tek
Anbor	e) Finished wire with spirally layer extruded insulation, co			nbotek Anbotek Anb	ek N Anbo
, botek	BASIC INSULATION: minimu or one extruded layer	m two wrapped I	ayers	Anbotek Anbotek A	botek P Ar
Anbotek *ek	- SUPPLEMENTARY INSULATION		anbotel	Anbotek Anbotek	Anbotek Anbotek



Anbotek	Anbo tek abotek	EN 60	601-1	Anbotek Anbot	Air
Clause	Requirement Test	Anbotek	Aupo	Result - Remark	Verdict
sk Aupor	REINFORCED INSULATION: wrapped or extruded	minimum three la	ayers,	hotek Anbotek Anb	otek Nanbo
Anbotek Anbotek Anbotek	In d) and e), for spirally wr CREEPAGE DISTANCES betw Table 12 or 16 (Pollution D type of insulation, path bet cemented joint in 8.9.3.3 a TESTS in L.3 equal 1.6 time	reen layers less t Degree 1) depend tween layers sea and test voltages	han in ling on led as a of TYPE	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
	Protection against mechar where two insulated wires insulated wire are in conta component, crossing at ar 90° and subject to winding	or one bare and ct inside wound angle between	one 15° and	Anbotek Anbotek Anbotek Anbotek Anbotek	ntotek An
Anbotek	Finished component comp dielectric strength tests of		Anbotes	ek Anbotek Anbotek	Anbotek nbotek
K Anbote	Tests of Annex L not repeats confirm compliance			ootek Anbotek Anbo	otek N Anbote
3.8.3	Dielectric Strength	bor by	tek	Anboron Anbo	upotek B Wul
abotek p	Solid insulating materials withstood dielectric streng			See appended Table 8.8.3	Anbotek P
3.8.4	Insulation other than wire	insulation	Anbor	an hotek Anbotek	Anbe P tek
3.8.4.1	Resistance to heat retaine insulating partition walls du LIFE of ME EQUIPMENT			ootek Anbotek Anbotek	rel Anbore
nbotek A	ME EQUIPMENT and RISK Material examined in conjunction with moisture, dielectric strength tests	vith resistance to th, and mechanic	al	Anbotek Anbotek A.	Anbotek P And
Anbote	Satisfactory evidence of comanufacturer for resistance		ed by	K Anbotek Anbotek	An Brek
Anbo	Tests conducted in absence evidence for resistance to		ek Ant	nbotek Anbotek Anbo	Les Pupe
tek Ar hotek	a) ENCLOSURE and other e insulating material, except cords and parts of ceramic ball-pressure test using ap	insulation of flex material, subjec	ted to	Anbotek Anbotek Anbotek	Anbotek P
Anbotek Anbotek Anbotek	b) Parts of insulating mate uninsulated parts of MAINS pressure test in a), except ambient indicated in techn plus temperature rise dete 11.1 of relevant part, if hig	PART subjected t at 125 °C ± 2 ° C ical description ± rmined during tes	or 2°C st of	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ek Anbotel bolek Anbotel Arbotek Anbo
Anbotek Anbotek	Test not performed on par insulating parts of commut similar, and on coil formers REINFORCED INSULATION	ators, brush-cap		Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek



Anboten	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
8.8.4.2	Resistance to environmental stress	nbotek Anbotek Anbo	ek PAnbot
hotek Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
ek Anbote	Ceramic and similar materials not tightly sintered, and beads alone not used as SUPPLEMENTARY or REINFORCED INSULATION	botek Anbotek Anbot	k P Anbote
hotek Anbotek	Insulating material with embedded heating conductors considered as one MEANS OF PROTECTION but not two MEANS OF PROTECTION	Anbotek Anbotek An	inbotek hotek
Anbotek Anbotel Anbo	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	ootek Anbotek Anbotek Anbotek Anbotek Anbotek	Ambotek Ambotek Ambotek
Anbotek 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	Anbotek Anbotek Anbotek	mbotek A
8.9	CREEPAGE DISTANCES and AIR CLEARANCES	And atek anbotek	AP
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	Anbotek Anbotek Anbote	Bupon Who
8.9.1.2	Tables 11 to 16 (inclusive) not applied to CREEPAGE and CLEARANCES forming MEANS OF OPERATOR PROTECTION per IEC 60950-1 for INSULATION CO-ORDINATION and used under conditions compliance was tested	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
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	Anbotek Anbotek Anbotek Anbotek	tek Anbo
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	Anbotek Anbotek	Anbotek Anbotek
8.9.1.5	ME EQUIPMENT RATED to operate at an altitude of 2000 m	<2000m Anbotek Anbotek	ek Anbot
otek An	ME EQUIPMENT RATED to operate at an altitude specified by MANUFACTURER (m)	Anbotek Anbotek An	botek N An



Anboten	And abotek	EN 60601	-1 tek	anbotek	Anbo	hotek
Clause	Requirement Test	Anbote. Ar	no a	Result - Rema	rk Anbore	Verdict
otek Anbote	Operating altitude correspondence of the EQUIPMENT pressurized environments determine multiplication factors of the EARANCE was multiplicated to the EARANCE was mult	intended for (e.g., aircraft) used to ctor from Table 8, an		nbotek Anbotek	hbotek Anbotek	unpotek Wenpe
Anbotek Anbotek	CREEPAGE DISTANCES not s multiplication factors, but w the resulting value for AIR C	ere at least as large	as Lek	Anbotek	tek Anbotek	Anbotek Anbotek
3.9.1.6	When WORKING VOLTAGE W Tables 11 to 16 (inclusive) CLEARANCES calculated as	, CREEPAGE and	Alloc	ibotek And	botek Anb	ntotek Nanbo
Anbotek Anbotek	CREEPAGE DISTANCES det interpolation between the r the calculated spacing rounhigher 0.1 mm increment (in the calculated spacing).	nearest two values, anded off to the next	and :	Anbotek Anbotek	Anbotek Anbotek	Anbotek
k Anbote otek A	CLEARANCES for PEAK WO 2800 V peak or d.c. determinterpolation between the rithe calculated spacing rounhigher 0.1 mm increment (in the calculated spacing).	nined by linear nearest two values, a nded off to the next	and Ar	botek Anbot	Potek Aupo	nbotek An
nbotek Anbotek	- for AIR CLEARANCES corre WORKING VOLTAGE up to 28 higher of the two values ap	00 V peak or d.c., th	ie nbotsk	Anbotek Anbotek	Anbotek Anbotek	Anbotek Anbotek
3.9.1.7	Material groups classified i Table 9 (Material Group)		Anbot	ek Anbot	otek Anbo	tel Panbot
itek Ar	Material group evaluated u solution A based on test da according to IEC 60112		Yu,	Anbotek An	Anbotek Ar	Anbotek N An
n'ek	Material of unknown group	considered IIIb	otek	Anbou	Abotek	Anboton P
3.9.1.8	 Pollution degree 1: Micro exclude dust and moisture 		d to	anbote	k Anbotek	An Notes
tek Anbo	 Pollution degree 2: Micro conductive pollution, excep conductivity caused by con 	ot occasional	on-	otek Ant	otek Anbotek Anbotek	belek P Anh
Anbotek Anbotek	 Pollution degree 3: Micro conductive pollution, or dry pollution that could become expected condensation 	non-conductive	ct to otek	Anbotek Anbotek	Anbotek Anbotek	Anbotek Anbotek
Anbot	 Pollution degree 4: Micro continuous conductivity occ dust, rain, or other wet con 	curs due to conductiv		otek Anb	otek Anbot	oolek Nipore
botek An	Pollution degree 4 not used a MEANS OF PROTECTION	d for insulation provid	ding	Anbotek A	Anbotek	Arbotek N A
Anbotek Anbotek	Where insulation between might be compromised, me maintenance ensure that mitigated to a lower pollution	easures such as nicro-environment is	nbote	Anbotek Anbotek	Anbotek Anbotek	Anbotek Anbotek



Anbore	EN 60601-1	k Anbotek Anbo	botek
Clause	Requirement Test	Result - Remark	Verdict
8.9.1.9 An	Overvoltage category classification; value of MAINS TRANSIENT VOLTAGE determined from overvoltage category per IEC60664-1 and NOMINAL a.c. MAINS VOLTAGE using Table 10	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek PAnbot
Anbotek	V MT Peak (V)	2500 Vpeak	_
nbotek	V _{MN} r.m.s (V)	300 V r.m.s.	_
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	botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anhor
8.9.1.11	SUPPLY MAINS overvoltage category II applied according to IEC 60664-1	Anbotek Anbotek	Anbotek
Anbote Anbote	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	otek Anbotek Anbotek	Anbote Anbote
Anbotek Anbotek	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	Anbotek Anbotek Anto	inbotek N Andotek
8.9.1.12	A SECONDARY CIRCUIT derived from a SUPPLY MAINS, normally, considered to be overvoltage category I according to IEC 60664-1 when the MAINS PART is overvoltage category II (Table 15)	potek Anbotek Anbotek	ArPotein Anbotei
	Table 15 applied to earthed SECONDARY CIRCUIT or INTERNALLY POWERED ME EQUIPMENT	Anbotek Anbotek Anb	nbotekN
Anbotek	Requirements for primary circuits in Tables 13 and 14 used for an unearthed SECONDARY CIRCUIT derived from a SUPPLY MAINS	Anbotek Anbotek	Anbotek Anbotek
k Anbo	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	rek Anbr
Anbotek	Table 15 column for circuits not subject to transient overvoltages applied to:	Anbotek Anbotek	Anbot N notek
Anbotek Anbot	 d.c. SECONDARY CIRCUITS reliably connected to earth and have capacitive filtering limiting peak-to- peak ripple to 10 % of d.c. voltage, and 	otek Anbotek Anbotek	Ann Anbotek
stek Ar	- circuits in Internally powered me equipment	In Anbotek Anbo	N N
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:	Anbotek Anbotek Ar	Anbotek Anbotek
k. Stek	- CLEARANCE was at least 5 mm	Ar. stek abotek	Anbo



71.	EN 60601-1	And	hor
Clause	Requirement Test	Result - Remark	Verdict
anbote.	y Aupo, Au	tek abotek Anbote	Y An-
k And	 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 		otek An
	 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 	Anbotek Anbotek	Anbotek Anbotek
Anbote	 CLEARANCE path was partly or entirely through air or along the surface of an insulating material of material group I 	hotek Anbotek Anbotek	k Anbote
otek And	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	Anbotek Anbotek Anbotek	otek N Ant
.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	botek Anbotek Anbotek	Anbotek Anbote
.9.1.15	CREEPAGE DISTANCES and AIR CLEARANCES for DEFIBRILLATION-PROOF APPLIED PARTS are 4 mm or more to meet 8.5.5.1	Anbotek Anbotek Anb	otek N And
.9.2 Ambotek Ambotek	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:	Botek Anbotek Anbotek	Anbotek Anbotek
rek V.	b) Contribution to CREEPAGE DISTANCES of grooves or air gaps less than 1 mm wide limited to widths	Anbotek Anbotek Anb	N And
Anbotek Anbotek	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	otek Anbotek Anbotek	Anbotek Anbotek
ek Anbo	Normal or likely limited movements of relevant parts taken into consideration when calculating minimum AIR CLEARANCE	Anbotek Anbote Anb	tek N Anbo
.9.3	Spaces filled by insulating compound	Anbotek Anbote A	No.N
.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	otek Anbotek Anbotek	Anbotek Anbotek
ek An	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	Anbotek Anbotek Anbo	botek N Anbo



Anbotek	Anbu sek abotek	EN 60601-	-1 _{tek}	Anbotek Anbot	potek.
Clause	Requirement Test	Anbotes An	,p-	Result - Remark	Verdict
8.9.3.2	For insulating compound for between conductive parts, subjected to thermal cycling followed by humidity precoil 48 hours), followed by diele (clause 8.8.3), test voltage	a single sample g PROCEDURE of 8.9.3 nditioning per 5.7 (for ectric strength test	3.4	hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	NAnborek Anhotek
Anbote	Cracks or voids in insulating homogeneity of material did		g Anbou	ek Anbotek Anbotek	Notek Anbotek
8.9.3.3	Where insulating compound joint with other insulating patested for reliability of joint		Ari	Anbotek Anbotek Anbot	otek Nanbo
Anbotek Anbotek	A winding of solvent-based replaced for the test by a m turns of bare wire placed cl and three samples tested a	netal foil or by a few lose to cemented joir	nt,	Anbotek Anbotek Anbotek Anbotek	Anbotek
Anbote Anbo	One sample subjected to PROCEDURE of 8.9.3.4, and last period at highest temper cycling, it was subjected to of 8.8.3 except at 1.6 times.	immediately after the erature during therma dielectric strength te	al est	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anb
Anbotek Anbotek	The other two samples supreconditioning of 5.7, excefollowed by a dielectric stretimes the test voltage	ept for 48 hours only		Anbotek Anbotek	Anbotek Anbotek
8.9.3.4	One sample containing the subjected to a sequence of tests for 10 times	temperature cycling	Anb	Anbotek Anbotek Anbote	otek Anb
8.10	Components and wiring	botek Anbote	97	Anbotek anbotek	nbot P
8.10.1	Components of ME EQUIPME unacceptable RISK by their securely as indicated in RIS	movements mounted	d Ke	k Anbotek Anbotek	Anbotek Anbotek
8.10.2	Conductors and connectors adequately secured or insu accidental detachment in a	lated to prevent	Anti	nbotek Anbotek Anbotek Anbote	Pupo tek Aupo
Anbotek Anbotek	Conductors and connectors breaking free at their joint a touching circuit points resulsiTUATION as indicated in Ri	are not capable of Iting in a HAZARDOUS	"Ofek	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbot	Breaking free of one means restraint considered a SING		Anbo	nbotek Anbotek Anbotek	Phoof
hotek An	Stranded conductors are no secured by clamping mean SITUATIONS due to poor con	s to prevent HAZARDO		Anbotek Anbotek Amb	nbotek P An



Anbotek	EN 60601-1	k anbotek Anbot	Air
Clause	Requirement Test	Result - Remark	Verdict
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
8.10.4	Cord-connected HAND-HELD parts and cord-connected devices	ed foot-operated control	Notek
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	Anbotek Anbotek Anbotek Anbotek Anbotek	NAnbotek Anb
Anbotek	d.c. limit of 60 V applied to d.c. with no more than 10 % peak-to-peak ripple	ek Anbotek Anbotek	Anbotek
K Anbore	42.4 V peak limit applied when ripple exceeded 10 % peak-to-peak limit	ootek Anbotek Anbote	K Napotel
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek Anbotek
k Anboto	This requirement applied to other HAND-HELD parts when disturbance or breaking of one or more of connections could result in a HAZARDOUS SITUATION	Sotek Anbotek Anbotek Anbote	Nanbotel Anbre
8.10.5	Mechanical protection of wiring	Anbotek Anbote Ant	hotek P A
Anbotek Anbotek	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.:	Anbotek Anbotek Anbotek	Anbotek Anbotek
stek Anbe	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	Anbotek Anbote	potek Anbo
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	Anbotek Anbotek Anbotek	Anbotek Anbotek
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:	Anbotek Anbotek Anbo	lek N Anbot
Anbotek Anbotek	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	Anbotek Anbotek Anbotek	Anbotek Anbotek



Anbotek	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
ek Anhot	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:	Anbotek Anbotek Anbotek Anbotek Anbotek	otek Nanbou
8.11	Mains parts, components and layout	hotek Amborek	Pek Pek
8.11.10tek	a) ME EQUIPMENT provided with means of electrically isolating its circuits from SUPPLY MAINS simultaneously on all poles	See appended Table 8.10	Anbotek Anbotek
	PERMANENTLY INSTALLED ME EQUIPMENT connected to a poly-phase SUPPLY MAINS equipped with a device not interrupting neutral conductor, provided local installation conditions prevent voltage on neutral conductor from exceeding limits in 8.4.2 c)	Anbotek Anbotek Anbotek Anbotek	otek NAM And
Anbotek Anbote	b) Means of isolation incorporated in ME EQUIPMENT, and external means described in technical description	See appended Table 8.10	Ambotek Anbotek
otek Anb	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	Anbotek Anbotek Anbotek Anb	otek P Anb
Anbotek	d) A SUPPLY MAINS switch not incorporated in a POWER SUPPLY CORD or external flexible lead	Anbotek Anbotek	Anborek
Anbote Anbre	e) Direction of movement of actuator of a SUPPLY MAINS switch used to comply with 8.11.1 a) complies with IEC 60447	potek Anbotek Anbotek	P Anbotek
otek Anbotek Anbotek	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)	See appended Table 8.10	Anbotek A
k Anboter	g) A fuse or a semiconductor device not used as an isolating means	otek Anbotek Anbotek	Panbotek
otek An	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	Anbotek Anbotek Anbotek Anbotek	hotek Ar
Anbotek Anbotek Anbo	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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ek Anbotek
	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)	Anbotek Anbotek Ar	Anbotek Anbotek



Anboten	And sek abotek	EN 606	301-1	Anbotek Anbo	hotek
Clause	Requirement Test	Anboten	Anbo	Result - Remark	Verdict
ek Ant	For a part that could not be supply by an external switch accessible at all times, the warning notice complied w	ch or a plug devic required cover or	e	Anbotek Anbotek Anbotek Anbotek	And
abotek	Standard test finger of Fig	6 applied	uporo	hotek Anhotek	No.k
8.11.2	MULTIPLE SOCKET-OUTLETS EQUIPMENT complied with 1 and 16.9.2		ash; _{Anb} o	cek Anbotek Anbotek	Anbotek Anbotek
8.11.3	Power supply cords	ootek Anbote.	N An	otek Anbotek Anbo	P P
8.11.3.1	MAINS PLUG not fitted with I SUPPLY CORD	more than one PC	WER	Anbotek Anbotek Ar	nbotek P Am
8.11.3.2	Power supply cords are ordinary tough rubber shea 60245-1:2003, Annex A, dordinary polyvinyl chloride (IEC 60227-1:1993, Annex	athed flexible cord esignation 53) or sheathed flexible	d (IEC cord		Anbotek Anbotek
Jotek Anbotek	Only polyvinyl chloride insucord with appropriate tem ME EQUIPMENT having extentemperature > 75 °C touch NORMAL USE	perature rating us rnal metal parts w able by the cord i	sed for vith a	Anbotek Anbotek An Anbotek Anbotek An	Anbotek Anbotek
8.11.3.3	NOMINAL cross-sectional and POWER SUPPLY CORDS of M than in Table 17 (mm² Cu)	E EQUIPMENT is no	ot less	otek Anbotek Anbotek	Anbotel Anbotel
8.11.3.4	APPLIANCE COUPLERS compare considered to comply v 8.11.3.6	with 8.11.3.5 and	320-1	Anbotek Anbotek Ant	potek N Anb
8.11.3.5	Cord anchorage (for APPLIA	ANCE COUPLERS no	ot compl	ying with IEC 60320-1)	NO P
Anbotek Anbotek	a) Conductors of POWER SU with strain relieve and insu abrasion at point of entry to MAINS CONNECTOR by a cor	lation protected for ME EQUIPMENT O	rom	otek Anbotek Anbotek	Anbotek
nbotek Anbotek	b) Cord anchorage of POW made of and arranged as f insulation failure of POWER conductive non-PROTECTIVE ACCESSIBLE PARTS to exceed	ollows when a tot SUPPLY CORD cau ELY EARTHED	alek	Anbotek Anbotek Antotek Anbotek Anbotek	Anbotek A
Anbotek	- insulating material, or	Anboten	Aupo	stek anbotek Anbote	N N Notek
tek Anbot	- metal, insulated from cor PARTS non-PROTECTIVELY E PROTECTION, or			nbotek Anbotek Anbotek Anb	olek Nimbo
Anbotek Anbotek	metal provided with an incord anchorage, except whoushing forming part of the and complying with the recomeans of protection	nen it is a flexible cord guard in 8.	11.3.6,	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek



Anboten	EN 60601-1	K Anbotek Anbo	hotek.
Clause	Requirement Test	Result - Remark	Verdict
Anbote Ant	c) Cord anchorage prevents cord from being clamped by a screw bearing directly on cord insulation	Anbotek Anbotek Anbot	otek Ant
anbotek otek	d) Screws to be operated when replacing POWER SUPPLY CORD do not serve to secure any components other than parts of cord anchorage	Anbotek Anbotek	Anbotek Anbotek
Anbote Anbote	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	botek Anbotek Anbotek	k Anbote
otek A	f) Cord anchorage prevents POWER SUPPLY CORD from being pushed into ME EQUIPMENT OF MAINS CONNECTOR	Anbotek Anbotek Anbotek	inbotel N
Anbotek Anbotek	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	ootek Anbotek Anbotek	Anto Na Anbotek Anbotek Anbotek Anbotek
otek A	Cord subjected to a torque in Table 18 for 1 min immediately after pull tests	Anbotek Anbote An	inbotekN A
Anbotek Anbotek	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	ak Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbo	CREEPAGE and CLEARANCES not reduced below limits in 8.9	Anbotek Anbotek Anb	tek N Anbo
hbotek atek	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	Anbotek Anbotek	nbotek Anbotek
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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Ar N heit Anbotek
ipotek	Cord guard complied with test of IEC 60335-1:2001, Clause 25.14, or	Anbotek Anbotek A	hotek N An
Anbotek Anbotek	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):	otek Anbotek Anbotek	Anbotek Anbotek
tek An	Cord guard of temperature-sensitive material tested at 23 °C ± 2 °C, and flat cords bent in the plane of least resistance	Anbotek Anbotek Anbo	botek An
Anbotek	Curvature of the cord radius, immediately after mass attached, was not less than 1.5 x D	Anbotek Anbotek	Anbotek hotek
3.11.4	MAINS TERMINAL DEVICES	tek abotek Anbote	N stek



Aupotek	EN 60601-1	k Anbotek Anbote	Am
Clause	Requirement Test	Result - Remark	Verdict
8.11.4.1	PERMANENTLY INSTALLED and ME EQUIPMENT with non-DETACHABLE POWER SUPPLY CORD replaceable by SERVICE PERSONNEL provided with MAINS TERMINAL DEVICES ensuring reliable connection	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Ant
Anbotek Anbotek	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	ek Anbotek Anbotek	Aupotek Aupotek
ek Ant	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	Anbotek Anbotek Anbotek Anbotek Ant	NAnbot otek Anb
Anbotek Anbotek	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	ek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
8.11.4.2	Arrangement of MAINS TERMINAL DEVICES	bors Am botek Anbote	NAmbe
Anbotek An	a) Terminals provided for connection of external cords or POWER SUPPLY CORDS together with PROTECTIVE EARTH TERMINAL grouped to provide convenient means of connection	Anbotek Anbotek Anb	nbotek A
Anboten	b) PROTECTIVE EARTH CONDUCTOR connections complied with 8.6	ak Anbotek Anbotek	Notek Anbotek
K Anb	c) Marking of MAINS TERMINAL DEVICES complied with 7.3	botek Anbotek Anbotel	Nupor upo
otek A	d) MAINS TERMINAL DEVICES not accessible without use of a TOOL	Anbotek Anbotek Anb	nbotek N A
Anbotek Anbotek	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	Anbotek Anbotek Anbotek	Anbotek Anbotek
8.11.4.3	Internal wiring not subjected to stress and CREEPAGE and CLEARANCES not reduced below 8.9 after fastening and loosening a conductor of largest cross-sectional area 10 times	Anbotek Anbotek Anbo	lek N Anbo
8.11.4.4	Terminals with clamping means for a rewirable flexible cord did not require special preparation of conductors and conductors were not damaged and did not slip out when clamping means tightened as verified by test of 8.11.3.4	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
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	Anbotek Anbotek Anbotek Anbotek Anbotek	botek An



Anbotek	EN 60601-1	k Anbotek Anbot	Ar. hotek
Clause	Requirement Test	Result - Remark	Verdict
ek Ant	Correct connection and positioning of conductors before ACCESS COVER was fitted verified by an installation test	Anbotek Anbotek Anbot	Potek Nanpo
8.11.5	Mains fuses and OVER-CURRENT RELEASES	Anboron K Anbo	Anbotek P
Anbotek Anbotek	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	lek Anbotek Anbotek hotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
potek p	neutral conductor not fused for PERMANENTLY INSTALLED ME EQUIPMENT	Anbotek Anbotek Ant	otek N An
Anbotek Anbotek	- 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	ek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
otek Anbr	Effect of short-circuit fault conditions in other circuits taken into consideration before eliminating fuses or OVER-CURRENT RELEASES	Anbotek Anbotek Anbo	otek N Ank
Anbotek Anbotek	Protective devices have adequate breaking capacity to interrupt the maximum fault current including the available short-circuit	See appended Table 8.10	Anbotek Anbotek
Anbotek	A fuse or OVER-CURRENT RELEASE not provided in a PROTECTIVE EARTH CONDUCTOR	potek Anbotek Anbote	N Anbote
	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	Anbotek Anbotek Anb	nbotek N Anb
Anbotek	Justification for omission of fuses or OVER- CURRENT RELEASES is in RISK MANAGEMENT FILE	Anbotek Anbotek	Anbotek Anbotek
8.11.6	Internal wiring of the MAINS PART	potek Anbos An botek	Napote
nbotek Ar	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)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	lek N Anb
Anbotek Anbotek	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:	See appended Table 8.10	An Ntek
hotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	botek A.



Anbotek	Anbore And Anborek	EN 60601-1	Anbotek Anbotes	Amb
Clause	Requirement Test	Anbote" Anbo	Result - Remark	Verdict

9	PROTECTION AGAINST MECHANICAL HAZARI ME SYSTEMS	DS OF ME EQUIPMENT AND	P
9.1	ME EQUIPMENT complies with Clause 4 for design and manufacture, and mechanical strength (15.3)	Anbotek Anbotek An	AnbotelP A
9.2	HAZARDS associated with moving parts	Anbote And Otek	Nµp P ek
9.2,1 ^{boto} Anbot	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:	otek Anbotek Anbotek	R Anbotek
otek Anbotek	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)	Anbotek Anbotek An	Anbotek Ansotek
Anbot	RESIDUAL RISK associated with moving parts considered acceptable when exposure was needed for ME EQUIPMENT to perform its function	hotek Anbotek Anbotek	Anbotel
otek An	Warnings marked on ME EQUIPMENT or included in instructions for use when HAZARDS persisted after implementing all reasonable protective measures:	Anbotek Anbotek Ant	nbotek A
9.2.2	TRAPPING ZONE	k Anbotel And otek	anboN ^k
9.2.2.1	ME EQUIPMENT with a TRAPPING ZONE complied with one or more of the following as feasible:	tek Anbotek Anbotek	Motek
K K	- Gaps in Clause 9.2.2.2, or	pole, Aug ofek Aupote	Nupore
Y VIII	- Safe distances in Clause 9.2.2.3, or	Anbotes Anb	otek N Anb
100	- GUARDS and protective measures in 9.2.2.4, or	Anbote, And Otek	abotek N P
upote.	- Continuous activation in Clause 9.2.2.5	Anboten Anbo	nbo'N'
	Control of relevant motion complied with 9.2.2.6 when implementation of above protective measures were inconsistent with INTENDED USE of ME EQUIPMENT OF ME SYSTEM	botek Anbotek Anbotek	Anbotel Anbotel
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	E Anbotek Anbotek Anb	upotek Nank
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	tek Anbotek Anbotek	Anbotek



Aupoter	EN 60601-1	k Anboten Anbo	hotek
Clause	Requirement Test	Result - Remark	Verdict
k Anbote	Distances measured from expected positions of OPERATOR, PATIENT, and others near EQUIPMENT in NORMAL USE or under foreseeable misuse	Anbotek Anbotek Anbotek Anbotek	otek Ar
9.2.2.4	GUARDS and protective measures	Anboton Anbo	mbotek N
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:	lek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
9.2.2.4.2	FIXED GUARDS held in place by systems that cannot be dismantled without a TOOL	Anbotek Anbotek Anb	hbotek N
9.2.2.4.3	Movable GUARDS that can be opened without a TOOL remained attached when GUARD was open	ek Anbotek Anbotek	Anboth N
Anbotek Anbo	 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, 	Anbotek Anbotek Anbote	Ann Anbot
potek VI	absence or failure of one of their components prevents starting, and stops moving parts	Anbotek Anbotek A	Notek N
Anbotek Anbotek	Movable GUARDS complied with all applicable tests as confirmed by review of RISK MANAGEMENT FILE	ok Anbotek Anbotek	Anbotek Anbotek
9.2.2.4.4	Protective measures provided in control system prevented moving parts from starting to move while in reach of persons	Anbotek Anbotek Anbote	ek N An
Anbotek Anbotek	- 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	Anbotek Anbotek Anbotek	Anbotek Anbotek
ek Antot	 when protective measure was in a SINGLE FAULT CONDITION, and an unacceptable RISK could arise, one or more emergency stopping device(s) provided 	Anbotek Anbotek Anbo	ek N Ant
Anbotek	RISK MANAGEMENT FILE reviewed and all conditions confirmed	Anbotek Anbotek	Anbote N botek
0.2.2.5	Continuous activation	ntek nbotek Anbote	And Note
Anbote Anb	TRAPPING ZONE not considered to present a MECHANICAL HAZARD where impractical to make TRAPPING ZONE inaccessible when:	inbotek Anbotek Anbotek Anbote	ek Anb
otek	a) movement was in OPERATOR'S field of view	And otek Anbotek An	N
Anbotek Anbotek	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	Anbotek Anbotek Anbotek	Anbotek



upolek	EN 60601-1	k abotek Anbote	in. otek
Clause	Requirement Test	Result - Remark	Verdict
Anbote Anb	Manually operated movements complied with this clause since mass and velocity allowed adequate control of positioning without causing an unacceptable RISK	Anbotek Anbotek Anbotek Anbotek Anbotek	N nbo
	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:	tek Anbotek Anbotek	Anbotek Anbotek
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	Anbotek Anbote	Nobek An
Anbotek Anbotek	Over travel (stopping distance) of such movement occurring after operation of a control to stop movement, did not result in an unacceptable RISK	ek Anbotek Anbotek	Anbotek
9.2.3	Other HAZARDS associated with moving parts	look All hotek Anboter	Nuppe
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	botek N And
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.:	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ek Anbote
9.2.4	Emergency stopping devices	Anbotes Anbe	NoteN
Anbotek Anbotek	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	otek Anbotek Anbotek Anbotek Anbotek	Anbotel Anbotel
hotek An	a) Emergency stopping device reduced RISK to an acceptable level	Anbotek Anbotek An	potek N p
Anbotek	b) Proximity and response of OPERATOR to actuate emergency stopping device could be relied upon to prevent HARM	k Anbotek Anbotek	Anbotek
Anbot	c) Emergency stopping device actuator was readily accessible to OPERATOR	nbotek Anbotek Anbotek	k Anbo
rek An'	d) Emergency stopping device(s) are not part of normal operation of ME EQUIPMENT	Anbotek Anbotek Anb	otek N P
Anbotek Anbotek	e) Emergency switching operation or stopping means neither introduced further HAZARD nor interfered with operation necessary to remove original HAZARD	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek



VII.	EN 60601-1	Anbo	"hole
Clause	Requirement Test	Result - Remark	Verdict
pote	Anbo k arek Anbore And	lek potek Anbor	Pr.
y Anbe	f) Emergency stopping device was able to break full load of relevant circuit, including possible stalled motor currents and the like	Anbotek Anbotek Anbotek Anbote	otek An
orek b	g) Means for stopping of movements operate as a result of one single action	Anbotek Anbotek	mootek N
Anbotek	h) Emergency stopping device provided with an actuator in red and easily distinguishable and identifiable from other controls	rek Aupotek Aupotek	Anbotek Anbotek
k Anbo	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"	botek Anbotek Anbotek Anbotek	tek An
Anbotek Anbotek	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	ek Anbotek Anbotek Anbotek Anbotek	Anbotek
Anbote	k) Emergency stopping device is suitable for its application	potek Anboten Anbotel	Napote
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	Anbotek Anbotek Anbrek Anbrek	lootek N Ant
Anbotek	Uncontrolled or unintended movement of ME EQUIPMENT that could result in an unacceptable RISK prevented	otek Anbotek Anbotek	Anbote Anbote
itek Anbor	Situations where PATIENT is subjected to unacceptable RISKS due to proximity of moving parts, removal of normal exit routes, or other HAZARDS prevented	Anbotek Anbotek Anbo	ek N And
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
9.3 Anbor	Rough surfaces, sharp corners and edges of ME EQUIPMENT that could result in an unacceptable RISK avoided or covered:	No sharp corners or edges	otek Panbi
9.4	Instability HAZARDS	Anbotek Anbote An	-voteP
9.4.1 Anbotek	ME EQUIPMENT, other than FIXED and hand-held, 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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
9.4.2	Instability – overbalance	tek nboter Anb	ve/√ P



Requirement Test	Result - Remark	Verdict
	170 4.77	Volunt
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)	nbotek Anbotek	N.nbot otek Anl
Instability excluding transport	tek Anbotek Anbotek	Potek
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)	botek Anbotek Anbotek Anbotek Anbotek Anbotek	P Anbote Ant
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	ek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek
Instability from horizontal and vertical forces	Anbo tek nbotek Anbo	N Am
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	Anbotek Anbotek	Anbotek Anbotek
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)	Anbotek Anbotek Anbotek	An N Anbotek
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	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek
b) ME EQUIPMENT, other than FIXED ME EQUIPMENT, for use on the floor or on a table, did 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)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anbo
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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbot	Notek Andotek Ando
	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)	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)



Anbotek	EN 60601-1	k Anbotek Anbote	An. hotek
Clause	Requirement Test	Result - Remark	Verdict
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N.nbo
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)	tek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek ek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
stek Anbo	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	Anbotek Anbotek Anbotek	lek N N N Anh
	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	ek Anbotek Anbotek	Anbotek Anbotek
Anbo	- Assessment criteria in Clause 9 and 11.6 used	botek Anbotek Anbo	N N
	Dielectric strength test of 8.8.3 conducted to evaluate integrity of solid SUPPLEMENTARY or REINFORCED INSULATION	Anbotek Anbotek Anbo	potek N A
Anbotek	CREEPAGE DISTANCES and AIR CLEARANCES measured compared favourably with min distances in clause 8.9	k Anbotek Anbotek	Anbotek Anbotek
Anbot	Small chips not adversely affecting protection against electric shock or moisture, disregarded	nbotek Anbotek Anbotek	ek N Anb
9.4.3	Instability from unwanted lateral movement (includi	ing sliding)	hotek N
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	Anbotek Anbotek Anbotek	AnboteN Anbotek
Anbotes	b) MOBILE ME EQUIPMENT provided with locking means to prevent unwanted movements of ME EQUIPMENT or its parts in transport position	otek Anbotek Anbotek	Potel Anbotel
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek



	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
ak Anbote	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)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Nabout blek Ant
Anbotek	RISK due to any initial movement assessed taking into consideration NORMAL USE of ME EQUIPMENT	Anbotek Anbotek	Anboth
9.4.3.2	Instability excluding transport	tek Anbore Am botek	AUD Jest
otek Anbo	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):	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbo	Rabote And
Anbotek	RISK due to initial movements assessed taking into consideration NORMAL USE of ME EQUIPMENT	ek Anbotek Anbotek	Anbotek hotek
k Anbotek	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	Anbotek Anbotek Anbotek Anbotek	rek Anbo
	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	anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek
hotek An	RISK due to initial movements assessed taking into consideration NORMAL USE of ME EQUIPMENT	Anbotek Anbotek Ar	potek P A
9.4.4	Grips and other handling devices	Anb otek anbotek	Anbor N.
Anbotek Anbotek Anbotek	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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	anbotek Anbotek Botek Anbo
Anbotek Anbotek	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	Anbotek Anbotek Anbotek	Anbotek Anbotek
ek Anbote	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	Inbotek Anbotek Anbotek Anbotek	A Anbot
botek	c) Carrying handles and grips and their means of attachment withstood loading test	Anbotek Anbotek	anbore N
9.5	Expelled parts HAZARD	Am. stek apotek	Anbor



	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
9.5.1	Suitability of means of protecting against unacceptable RISK of expelled parts determined by assessment and examination of RISK MANAGEMENT FILE	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Ninbo
9.5.2	Cathode ray tube(s) complied with IEC 60065:2001, Clause 18, or IEC 61965	Anbotek Anbotek	AuporNe
9.6	Acoustic energy (including infra- and ultrasound) a	nd vibration	AnNotes
9.6.1 Anbro	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:	Anbotek Anbote	Nabotek An
9.6.2	Acoustic energy	Anbote Anti-	Anbotok
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	otek Anbotek Anbotek	An Ntek
	- 80 dBA for a cumulative exposure of 24 h over a 24 h period (dBA)	Anbotek Anbotek Anbo	_
hotek	- 83 dBA (when halving the cumulative exposure time) (dBA)	Anbotek Anbotek A	_
Anbote.	140 dB un-weighted sound pressure level for impulsive or impact acoustic energy (dB):	ek Anbotek Anbotek	_
9.6.2.2	RISK MANAGEMENT FILE examined for RISKS associated with infrasound or ultrasound, when present, addressed in RISK MANAGEMENT PROCESS	Ambotek Ambotek Ambotek	N Ant
9.6.3	Hand-transmitted vibration	Anbox Ak Abotek Ar	ooter N
Anbotek Anbotek Anbot	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Ambotek Ambotek Ambote
tek An	- 2.5 m/s ² for a cumulative time of 8 h during a 24 h period (m/s ²)	Anbotek Anbotek An	pote ^N N
Anbotek	Accelerations for different times, inversely proportional to square root of time (m/s²)	k Anbotek Anbotek	Anbote N botek
9.7 Anbotek	Pressure vessels and parts subject to pneumatic a	nd hydraulic pressure	Note
9.7.1 Anbot	Requirements of this clause applied to vessels and parts of ME EQUIPMENT subject to pressure resulting in rupture and unacceptable RISK	inbotek Anbotek Anbotek	k N Anb
potek	Parts of a pneumatic or hydraulic system used as a support system, comply with 9.8	Anbotek Anboten An	InbotekN
9.7.2	Pneumatic and hydraulic parts of ME EQUIPMENT or ACCESSORIES met following requirements based on examination of RISK MANAGEMENT FILE	otek Anbotek Anbotek	Anb Nºk



Anbote	EN 60601-1	k Anbote And	botek
Clause	Requirement Test	Result - Remark	Verdict
Anbote Ant	No unacceptable RISK resulted from loss of pressure or loss of vacuum	hotek Anbotek Anbote	N.nbo
otek	No unacceptable RISK resulted from a fluid jet caused by leakage or a component failure	Anbotek Anbotek Anb	nbotek N
Anbotek Anbotek	Elements of ME EQUIPMENT or an ACCESSORY, especially pipes and hoses leading to an unacceptable RISK protected against harmful external effects	lek Anbotek Anbotek	Anbotek Anbotek
otek Anb	Reservoirs and similar vessels leading to an unacceptable RISK are automatically depressurized when ME EQUIPMENT is isolated from its power supply	Anbotek Anbotek Anbotek Anbotek	nek N
Anbotek	Means provided for isolation, or local depressurizing reservoirs and similar vessels, and pressure indication when above not possible	ek Anbotek Anbotek	Anbotek Anbotek
stek Anbrek Anbotek	 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 	botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	botek And
9.7.3° ^{te h}	Maximum pressure a part of ME EQUIPMENT can be subjected to in NORMAL and SINGLE FAULT CONDITIONS considered to be highest of following:	ok Anbotek Anbotek	Anblek
Anbo	a) RATED maximum supply pressure from an external source	Anbotek Anbotek Anbo	ek N Ant
botek	b) Pressure setting of a pressure-relief device provided as part of assembly	Anbotek Ambotek Ar	potek N
Anbotek Anbotek	c) Max pressure that can develop by a source of pressure that is part of assembly, unless pressure limited by a pressure-relief device	otek Anbotek Anbotek	Anboth Anboth
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	anbotek Anbotek
9.7.5 Anbotek	A pressure vessel withstood a HYDRAULIC TEST PRESSURE when pressure was > 50 kPa, and product of pressure and volume was more than 200 kPal	otek Anbotek Anbotek	Anbote Anbote
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek



Anbo	EN 60601-1	k Anbore Ant	hotek
Clause	Requirement Test	Result - Remark	Verdict
9.7.7 Antohi	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	Anbotek Anbote	nbotek An
Anbotek	a) Connected as close as possible to pressure vessel or parts of system it is to protect	lek Anbotek Anbotek	Anbole N
Anbote	b) Installed to be readily accessible for inspection, maintenance, and repair	botek Anbotek Anbotel	N Anbot
otek bur	c) Could be adjusted or rendered inoperative without a TOOL	Anbotek Anbotek Anb	tek N An
inbotek .ek	d) With discharge opening located and directed as to not to release material towards any person	Anbotek Anbotek A	Anbotek
Anbotel	e) With discharge opening located and directed as to not to deposit material on parts that could result in an unacceptable RISK	ootek Anbotek Anbotek	An Ntek
nbotek Anb.	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	lek N Ant
Anbotek	g) No shut-off valve provided between a pressure- relief device and parts it is to protect	otek Anbotek Anbotek	AniNten
Anbo	h) Min number of cycles of operation 100 000, except for one-time use devices (bursting disks)	Anbotek Anbotek Anbote	ek N
9.8	HAZARDS associated with support systems	Anbotek Anbo tek	ootek N
9.8.1	ME EQUIPMENT parts designed to support loads or provide actuating forces when a mechanical fault could constitute an unacceptable RISK	No support system	AnboteN Anbotek
Anbore	Construction of support, suspension, or actuation system complied with Table 21 and TOTAL LOAD	nbotek Anbotek Anbotek	Noote Anoote
botek Ar	Means of attachment of ACCESSORIES prevent possibility of incorrect attachment that could result in an unacceptable RISK	Anbotek Anbotek An	potek N
Anbotek Anbotek	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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotel Anbotel
Anbotek Anbotek	 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 	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek



VI.	EN 60601-1	W Motok	Aupor
Clause	Requirement Test	Result - Remark	Verdict
otek Anhote	- 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	thotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek An
Anbotek Anbotek	Additional instructions provided on checking adequacy of surface of structure parts will be attached to	ek Anbotek Anbotek	Anbotek Anbotek
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	Anbotek Anbote	Nabotek Andotek
Anbote	Compliance with 9.8.1 and 9.8.2 confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications and material processing:	ootek Anbotek Anbotek	Anbote Anbote
upotek Vupotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	tek N Anh
9.8.3	Strength of PATIENT or OPERATOR support or suspe	nsion systems	Ans N
9.8.3.1	ME EQUIPMENT parts supporting or immobilizing PATIENTS minimize RISK of physical injuries and accidental loosening of secured joints	Anbotek Anbotek Anbotek	ick Nur
Anbotek Anbotek	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	Anbotek Anbotek Anbotek	Anbotek Anbotek
tek Anbo	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	Anbotek	otek Anb
Anbotek Anbotek	Maximum mass of PATIENT included in SAFE WORKING LOAD of ME EQUIPMENT or its parts supporting or suspending PATIENTS adapted when MANUFACTURER specified applications	otek Anbotek Anbotek	Anbotel
ek An	Max allowable PATIENT mass < 135 kg marked on ME EQUIPMENT and stated in ACCOMPANYING DOCUMENTS	Anbotek Anbotek Anbot	otek Nanbi
otek	Max allowable PATIENT mass > 135 kg stated in ACCOMPANYING DOCUMENTS	Anborr Ams	Anbotek N



	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
ek Anbore	Examination of markings, ACCOMPANYING DOCUMENTS, and RISK MANAGEMENT FILE confirmed compliance	Anbotek Anbotek Anbotek Anbote	otek Mupor
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	Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N Anbote Anti
Anbotek Anbotek	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:	ek Anbotek Anbotek	Anboth Anbotek
Anbote Anbo	Compliance confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications of materials and their processing, and tests:	Botek Anbotek Anbotek	N Anbotel
otek Ar Anbotek	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).:	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
k Anbor	Damage or deflection resulting in an unacceptable RISK did not occur on foot rest and its secured joints	otek Anbotek Anbotek	N _b otel
nbotek An	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	Anbotek Anbotek Anbotek Anbotek	ootek N A
Anbotek	Compliance confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications of materials and their processing, and by a test:	otek Anbotek Anbotek	Anbotek
tek Anhotek Anbotek	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)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	notek Ar Anbotek Anbotek
	Deflection of support/suspension system resulting in an unacceptable RISK not occur	inbotek Anbotek Anbot	ek N
9.8.3.3	Dynamic forces that can be exerted on equipment parts supporting or suspending a PATIENT or OPERATOR in NORMAL USE did not result in an unacceptable RISK as confirmed by following test:	Anbotek Anbotek Anbotek	otek N An



Anbotek	EN 60601-1	k abotek Anhore	Air
Clause	Requirement Test	Result - Remark	Verdict
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N nbo
9.8.4	Systems with MECHANICAL PROTECTIVE DEVICES	tek Anboten Anbo	Prek
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:	Anbotek Anbotek Anbotek Anbote	N Anbot
anbotek	b) MECHANICAL PROTECTIVE complies with the requirements as follows:	Anbotek Anbotek	hotek hotek
Anbotek	Designed based on TOTAL LOAD, and includes effects of SAFE WORKING LOAD when applicable	ek Anbotek Anbotek	Anbotek
k Aupo	Has TENSILE SAFETY FACTORS for all parts not less than Table 21, row 7	botek Anbotek Anbote	Nupor
otek Ar	Activated before travel (movement) produced an unacceptable RISK	Anbotek Anbotek Anb	Notek N
'upotor,	- Takes into account Clauses 9.2.5 and 9.8.4.3	Anbotes Anbo Stek	N rodn
Anbotek	Compliance confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications of materials and their processing	otek Anbotek Anbotek	Ant Nek
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)	Anbotek Anbotek Anbo	ootek N Ant
Anbotek	MECHANICAL PROTECTIVE DEVICE requires use of a TOOL to be reset or replaced	Anbotek Anbotek	AnbNek
9.8.4.3	MECHANICAL PROTECTIVE DEVICE intended to function	on once	N
tek An	- Further use of ME EQUIPMENT not possible until replacement of MECHANICAL PROTECTIVE DEVICE . :	Anbotek Anbotek Anbo	NAnb
Anbotek Anbotek	ACCOMPANYING DOCUMENTS instruct once MECHANICAL PROTECTIVE DEVICE is activated, SERVICE PERSONNEL shall be called, and MECHANICAL PROTECTIVE DEVICE must be replaced before ME EQUIPMENT can be used	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
ek Anbor	ME EQUIPMENT permanently marked with safety sign 2 of Table D.2 (i.e., safety sign 7010-W001)	inbotek Anbote Anbotek Anbot	ek N _{Anb}
potek Anbotek	Marking is adjacent to MECHANICAL PROTECTIVE DEVICE or its location relative to MECHANICAL PROTECTIVE DEVICE is obvious to service personnel	Anbotek Anbotek An	anbotek



	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
hotel	Anbott And abotel Anb	stek mbole	Aug
otek Anbe	Compliance confirmed by examination of ME EQUIPMENT, ACCOMPANYING DOCUMENTS, RISK MANAGEMENT FILE, specifications and processing of materials, and following test	Anbotek Anbotek Anbotek Anbote	N.nboro
Anbotek Anbotek	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	lek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
otek Ar	Load included SAFE WORKING LOAD in 9.8.3.1 when system was capable of supporting a PATIENT OF OPERATOR	Anbotek Anbotek Anb	hotek N And
Anbotek	No evidence of damage to MECHANICAL PROTECTIVE DEVICE affecting its ability to perform its intended function	ek Anbotek Anbotek	Anbotek Anbotek
9.8.5	Systems without MECHANICAL PROTECTIVE DEVICES	abote All hotek Anbotek	Nupe
otek An	Support system parts have TENSILE SAFETY FACTORS ≥ to values in Table 21, rows 1 and 2, and are not impaired by wear	Anbotek Anbotek Anbo	lootek N Yupo
Anbotek Anbotek	Support system parts impaired by wear, however, they have TENSILE SAFETY FACTORS ≥ to values in Table 21, rows 3 and 4	ak Anbotek Anbotek	Anbotek Anbotek
Anbot	Examination of ME EQUIPMENT and RISK MANAGEMENT FILE confirmed compliance	botek Anbotek Anbotek	N _{port}

10	PROTECTION AGAINST UNWANTED AND EXCESSIVE RADIATION HAZARDS		
10.10tek	X-Radiation	sk upotek Aupor	Nek Vek
10.1.1bote	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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ek Anbotek
Anbotek Anbotek	Amount of radiation measured by means of an ionizing chamber radiation monitor with an effective area of 10 cm ² or by other instruments producing equal results	K Anbotek Anbotek Anbotek	Anbotek Anbotek
Anb'	ME EQUIPMENT operated as in NORMAL USE at most unfavourable RATED MAINS VOLTAGE and controls adjusted to emit maximum radiation	upotek Anbotek Anbotek	ek Anbot
hotek otek	Internal pre-set controls not intended for adjustment during EXPECTED SERVICE LIFE of ME EQUIPMENT not taken into consideration	Anbotek Anbotek An	Anbotek N An



Anboten	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
not!	Aupor Aug	stek subote	And
10.1.2 And	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):	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anb
10.2 Anbotek	RISK associated with alpha, beta, gamma, neutron, and other particle radiation, when applicable, addressed in RISK MANAGEMENT PROCESS as shown in RISK MANAGEMENT FILE:	lek Anbotek Anbotek	Anbotek Anbotek
10.3 And	RISK associated with microwave radiation, when applicable, addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE:	Anbotek Anbotek Anb	otek N Anbr
10.4 Anbotek	Relevant requirements of IEC 60825-1:1993 applied to lasers, light emitting diodes (LEDs), and laser light barriers or similar products	ek Anbotek Anbotek	Anbot N'
10.5 Anbo	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:	ootek Anbotek Anbotek	N Anbotek
10.6 Ambotek	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	Anbotek Anbotek A	Anbotek N Ar
10.7	RISK associated with ultraviolet radiation other than emitted by lasers and LEDS, as applicable, addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE	potek Anbotek Anbotek	Anhotek Anbotek



Anbotek	Anbotes And	EN 60601-1	All Anbotek Anbotek	hotek k
Clause	Requirement Test	Anbotes Anbo	Result - Remark	Verdict

11	PROTECTION AGAINST EXCESSIVE TEMPERAT HAZARDS	TURES AND OTHER	Р
1.1	Excessive temperatures in ME EQUIPMENT	Anbore K Andrek A	,botek P
1.1.1 Anbotek	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	Anbotek
Anbo	Surfaces of test corner did not exceed 90 °C	otek Anbotek Anbot	P
ek Ar	THERMAL CUT-OUTS did not operate in NORMAL CONDITION	Anbotek Anbotek Anbo	botek N A
1.1.2	Temperature of APPLIED PARTS	Anbotek Anbo tek	nbot P
1.1.2.1	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	otek Anbotek Anbotek Anbotek Anbotek	Anbot Anbot Anbot
1.1.2.2	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbot Anbot	Surfaces of APPLIED PARTS cooled below ambient temperatures that can also result in HAZARD evaluated as part of RISK MANAGEMENT PROCESS	nbotek Anbotek Anbote	K N An'
1.1.3	Measurements not made when engineering judgment and rationale by MANUFACTURER indicated temperature limits could not exceed, as documented in RISK MANAGEMENT FILE	Anbotek Anbotek An	Anbotek Anbotek
Anboth Anboth	Test corner not used where engineering judgment and rationale by MANUFACTURER indicated test corner will not impact measurements, as documented in RISK MANAGEMENT FILE	nbotek Anbotek Anbotek	k Ant
otek Imbotek	Probability of occurrence and duration of contact for parts likely to be touched and for APPLIED PARTS documented in RISK MANAGEMENT FILE	Anbotek Anbotek An	inbotelP hotek
1.1.4° tek	GUARDS preventing contact with hot or cold accessible surfaces removable only with a TOOL	No such guards provided	And Note
1.2 And	Fire prevention	hotek Anbo tek hote	F _{Anb}
1.2.1 And	ENCLOSURE has strength and rigidity necessary to prevent a fire caused by reasonably foreseeable misuse and met mechanical strength tests for ENCLOSURES in 15.3	Anbotek Anbotek Anb	nbotek nbotek
1.2.2	Me equipment and me systems used in conjunction ENVIRONMENTS	with Oxygen Rich	Anbore N tel



And	iek	And Andrew Manager	Aupo K. Sporek	"hote, V
An	po ek	EN 60601-1	Aupore VIII	Anboten
CI	lause	Requirement Test	Result - Remark	Verdict
11 otek	1.2.2.1	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:	EUT is not intended for use in oxygen rich environment	Nabotek Nabotek Anbo
Anl	ootek Anbotek Anbotek	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	K Anbotek Anbotek Anbotek	Anbotek Anbotek
nte ^K	Anbot Anbot	a) No sources of ignition discovered in an OXYGEN RICH ENVIRONMENT in NORMAL and SINGLE FAULT CONDITIONS under any of the following conditions:	Anbotek Anbotek Anbotek	Nupo,
nbo	otek	when temperature of material raised to its ignition temperature	Anbotek Anbotek Ar	potek N Ar
· ak	Anbotek Anbotek	2) when temperatures affected solder or solder joints causing loosening, short circuiting, or other failures causing sparking or increasing material temperature to its ignition temperature	otek Anbotek Anbotek	Anbotek Anbotek
16 Ote	ik An	3) when parts affecting safety cracked or changed outer shape exposing temperatures higher than 300°C or sparks due to overheating	Anbotek Anbotek Anbotek Anbot	potek N Anbo
Anb P	unbotek hotek	4) when temperatures of parts or components exceeded 300°C, atmosphere was 100 % oxygen, contact material solder, and fuel cotton	Anbotek Anbotek	Anbotek Anbotek
lek lootel	Anbote	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	nbotek Anbotek Anbotek	Nbore Anbore
AUD	nbotek nbotek	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	Anbotek Anbotek Anbotek	Anbotek Anbotek
eltek	Anbote	Alternative test in this clause did not identify existence of ignition sources at highest voltage or current, respectively:	abotek Anbotek Anbotek	K Anbote
Aupc	hotek p	A safe upper limit determined by dividing upper limit of voltage or current, respectively, with safety margin factor of three	Anbotek Anbotek Ant	ote. N Ant
A'	Anbotek Anbotel	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:	kek Anbotek Anbotek	Anbotek Anbotek
Arbo Ar	tek Anbotek Anbotek	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:	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek N And nbotek Anbotek Anbotek



71	o sex	Anborek Anbore Anbore FALCOCOA A	Anbo tek spotek P	mbore A
	Clausatek	EN 60601-1	Double Danker , nbotek	Amboten
	Clause	Requirement Test	Result - Remark	Verdict
rorrorrorrorrorrorrorrorrorrorrorrorror	Anbo	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 (%)	Anbotek Anbote	Nobotek Nobotek Anbo
K.	Anbotek Anbotek Anbotek	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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek Anbotek
C)	otek Inbotek Anbotek	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	Anbotek Anbotek Arbotek Anbotek Anbotek Arbotek	potek N Ar Anbotek Anbotek
10	k Anbot otek Anbot	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	otek Anbotek	ek Anbotek Anbotek
(e)	11.2.2.2	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	nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	An'N's Anbotek Anbotek Anbotek Anbotek
P	11.2.2.3	Electrical connections within a compartment containing an OXYGEN RICH ENVIRONMENT under NORMAL USE did not produce sparks due to loosening or breaking, except when limited in power and energy to values in 11.2.2.1 a) 5)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
00	tek Anb	 Screw-attachments protected against loosening during use by varnishing, use of spring washers, or adequate torques 	Anbotek Anbotek Anbote	k N _{Anbote}
4	Anbotek A	Soldered, crimped, and pin-and-socket connections of cables exiting ENCLOSURE include additional mechanical securing means	Anbotek Anbotek	inbotek Anbotek
Y.	11.2.3	SINGLE FAULT CONDITIONS related to OXYGEN RICH EN ME SYSTEMS considered	IVIRONMENTS ME EQUIPMENT and	Notek
s ^C	lek Anbi	- Failure of a ventilation system constructed in accordance with 11.2.2.1 b) 2)	Anbotek Anbotek Anbote	N ^{Ant}
V,	bote" A	- Failure of a barrier constructed in accordance with 11.2.2.1 b) 3)	Anbotek Anbotek	inpotekN b
	Anbotek	- Failure of a component creating a source of ignition (as defined in 11.2.2.1 a):	ek Anbotek Anbotek	Anbotek



hoter	EN 60601-1	notek Anboten A	'up
Clause	Requirement Test	Result - Remark	Verdict
Aur	Anbotek Anbo Anbotek Anbot	Aug ofek supotek	Aupo,
ek Anbo	- 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)	Anbotek Anbote	Napole lek Anb
Anbotek	Failure of a pneumatic component resulting in leakage of oxygen-enriched gas	Anbotek Anbotek	Anbore N
11.3 Anboten	Constructional requirements for fire ENCLOSURES of	ME EQUIPMENT	Photel
otek Anbo	ME EQUIPMENT met this clause for alternate means of compliance with selected HAZARDOUS SITUATIONS and fault conditions in 13.1.2	Anbotek Anbotek Anbotek Anbo	ek P Anbi
botek	Constructional requirements were met, or	An Anbotek Anbotek Al	P
Anbotek	- constructional requirements specifically analysed in RISK MANAGEMENT FILE	K Anbotek Anbotek	Anbotek
Anbore	Justification, when requirement not met:	otek Anbote And	Nabotek
otek Anbor	a) Flammability classification of insulated wire within fire ENCLOSURE is FV-1, or better, based on IEC 60695 series as determined by examination of data on materials	See appended Table 8.10	ek P Anbo
Anbotek Anbotek	Flammability classification of connectors, printed circuit boards, and insulating material on which components are mounted is FV-2, or better, based on IEC 60695-11-10 as decided by examination of materials data	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
otek Ant	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	Anbotek Anbotek Anbot	N And N Ar Ar Ar Ar
Anbore	b) Fire ENCLOSURE met following:	Anbote. And And	AUP Nek
tek Anbore	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 × 2 mm centre to centre and wire diameter of at least 0.45 mm	Tek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	Notek Anbotek Otek An
hotek	2) No openings on the sides within the area included within the inclined line C in Fig 39	Anbotek Anbotek	inbote ^N
Anbotek Anbotek Anbotek Anbotek Anbotek	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)	ek Anbotek Anbotek botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek nbotek
11.4	ME EQUIPMENT and ME SYSTEMS intended for use wit	h flammable anaesthetics	Notek



Anbotek	EN 60601-1	Anbotek Anbotek A	inho hotek
Clause	Requirement Test	Result - Remark	Verdict
ek Aupotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Nupote Kek And
11.5°K	ME EQUIPMENT and ME SYSTEMS intended for use in agents	conjunction with flammable	AnbotN
Anbotek Anbotek	MANUFACTURER'S RISK MANAGEMENT PROCESS addresses possibility of fire and associated mitigations as confirmed by examination of RISK MANAGEMENT FILE	otek Anbotek Anbotek Anbotek Anbotek Anbotek	An N rei Anbotel
11.6	Overflow, spillage, leakage, ingress of water or part disinfection, sterilization and compatibility with subs EQUIPMENT		botek N
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	otek Anbotek Anbotek	Anbotek Anbotek
11.6.2	Overflow in ME EQUIPMENT	abotek Anbote And	otek N
Anbotek Anbotek Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek
nbotek nbotek	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	Anbotek Anbotek An	Anbotek An
11.6. 3	Spillage on ME EQUIPMENT and ME SYSTEM	K notek anbotek	Anbox
otek Anhotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anbot
Anbotek Anbotek	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	lek Anbotek Anbotek	Anbotek Anbotek
11.6.4	Leakage Andores Andores A	See 13.2.6	NAME OF THE PARTY
11.6.5	Ingress of water or particulate matter into ME EQUIPM	MENT and ME SYSTEMS	N Am
Anbotek hotek	ME EQUIPMENT with IP Code placed in least favourable position of NORMAL USE and subjected to tests of IEC 60529 (IP Code)	Anbotek Anbotek	hpotek Anbotek



Anbore	EN 60601-1	Anboten Anbo	botek
Clause	Requirement Test	Result - Remark	Verdict
abotek	Anbot Anboten Anbo	Lock Dotek Anbore	Ans
otek Anbe	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	lek An
11.6.6	Cleaning and disinfection of ME EQUIPMENT and ME	SYSTEMS	Anborn K
Anbotek Anbotek	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	otek Anbotek Anbotek	An Note
otek Ar	ME EQUIPMENT met dielectric strength and LEAKAGE CURRENT tests, with no deterioration resulting in an unacceptable RISK present	Anbotek Anbotek Anb	botek N
Anbotek Anbotek Anbot	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	otek Anbotek Anbotek otek Anbotek Anbotek otek Anbotek	An Neek Anbote Anbote
11.6.7	Sterilization of ME EQUIPMENT and ME SYSTEMS	abotek Anbote Ans	otek N
Anbotek Anbotek	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	Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbot Anbot	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	hootek Anbotek Anbotek	N _{port}
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	Anbotek Anbotek Anbotek	Anbotek Anbotek
11.7 Anbote	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	Anbotek Anbotek Anbotek	k And
11.8 Anbotek	Interruption and restoration of power supply did not result in a HAZARDOUS SITUATION, except interruption of its intended function	Anbotek Anbotek	inbotek

12	ACCURACY OF CONTROLS AND INSTRUMENTS AGAINST HAZARDOUS OUTPUTS	S AND PROTECTION	P
botek P	RISKS associated with accuracy of controls and instruments stated in RISK MANAGEMENT PROCESS confirmed by RISK MANAGEMENT FILE review	Anbotek Anbotek Anb	nbotek A



hotek	EN 60601-1	Anbotek Anbotek	"hote V
Clause	Requirement Test	Result - Remark	Verdict
12.2 Ambo	RISK of poor USABILITY, including identification, marking, and documents addressed in a USABILITY ENGINEERING PROCESS as confirmed by review of provided records	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Nupotek Nupotek
12.3° K	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	Anbotek Anbotek Anbotek	Anbotek Anbotek
12.4	Protection against hazardous output	And And Anbotek	Nupose
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	Anbotek Anbotek Anbotek Anbo	botek An
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	otek Anbotek Anbotek	Anbotek Anbotek
12.4.3 An	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek N Anbo Potek An Anbotek
12.4.4	When applicable, RISKS associated with incorrect output addressed in RISK MANAGEMENT PROCESS as confirmed by review of RISK MANAGEMENT FILE:	bek Anbotek Anbotek	Notek Albotek
12.4.5	Diagnostic or therapeutic radiation	The Anbotek Anbo	N N
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbote	Radiation safety ensured by compliance with requirements of appropriate standards	hotek Anbotek Anbotek	k N Anbote
12.4.5.2	RISKS associated with diagnostic X-rays addressed in RISK MANAGEMENT PROCESS as confirmed in RISK MANAGEMENT FILE	Anbotek Anbotek Ant	otek N Ant
12.4.5.3	RISKS associated with radiotherapy addressed in RISK MANAGEMENT PROCESS as confirmed by review of RISK MANAGEMENT FILE	Anbotek Anbotek	Aup Nek
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	botek Anbotek Anbotek Anbotek Anbotek Anbote	k Anbote
12.4.6	When applicable, RISKS associated with diagnostic or therapeutic acoustic pressure addressed in RISK MANAGEMENT PROCESS as confirmed in RISK MANAGEMENT FILE	ek Anbotek Anbotek	nbote N Anbotek



Anbotek	Anbore And abotek	EN 60601-1	Anbotek Anbote	Ann
Clause	Requirement Test	Anboten Anbo	Result - Remark	Verdict

13	HAZARDOUS SITUATIONS AND FAULT CONDIT	TIONS	Р
13.1	Specific HAZARDOUS SITUATIONS	Anbotek Anbo. Al	note ^K P
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	Anbotek Anbotek	Anbotek
13.1.2	Emissions, deformation of ENCLOSURE or exceeding	maximum temperature	Poote
otek Anbo	 Emission of flames, molten metal, poisonous or ignitable substance in hazardous quantities did not occur 	Anbotek Anbotek Anbo	ek N Anb
nbotek	- Deformation of ENCLOSURE impairing compliance with 15.3.1 did not occur	Anbotek Anbotek Ar	AnboteN
Anbotek	Temperatures of APPLIED PARTS did not exceed allowable values in Table 24 when measured as in 11.1.3	otek Anbotek Anbotek	Anhotel
tek And	- 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	Anbotek Anbotek Anbotek Anbotek Anbotek	otek N Anbr
Anbotek Anbotek	-Allowable values for "other components and materials" in Table 22 times 1.5 minus 12.5 °C were not exceeded	tek Anbotek Anbotek	Anbotek Anbotek
Anbot	Limits for windings in Tables 26, 27, and 31 not exceeded	abotek Anbotek Anbot	ek N
re. Au	Table 22 not exceeded in all other cases	Anboter Anbo stek	otek N A
pote.	Temperatures measured according to 11.1.3	Anbotek Anbo tek	abote N
Anbotek Anbotek	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:	tek Anbotek Anbotek	Anbotek Anbotek
ek Au	Supply circuit was unable to supply 15 W one minute after 15 W drawn from supply circuit, or	See appended Table 13.1.2	otek NAnb
Anbotek Anbotek	Parts and components completely contained within a fire ENCLOSURE complying with 11.3 as verified by review of design documentation	Anbotek Anbotek	nbotek nbotek
Anbote	After tests of this Clause, settings of THERMAL CUT- OUTS and OVER-CURRENT RELEASES did not change sufficiently to affect their safety function	botek Anbotek Anbotek	Notek Anbotek
13.1.3	- limits for LEAKAGE CURRENT in SINGLE FAULT CONDITION based on 8.7.3 did not exceed:	See appended Table 8.7	otek N An
Anbotek	voltage limits for ACCESSIBLE PARTS including APPLIED PARTS in 8.4.2 did not exceed	See appended Table 8.7	nbote N
13.1.4	ME EQUIPMENT complied with the requirements of 9.1 to 9.8 for specific MECHANICAL HAZARDS	ek Anbotek Anbote	Anbotek Anbotek



	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
13. 2 ^{Mmote}	SINGLE FAULT CONDITIONS	botek Anbotek Anbotek	Pupor.
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	iek P Anh
13.2.2 – 13.2.12	ME EQUIPMENT complied with 13.2.2 -13.2.12:	k hotek Anbotek	Anbotpk Anbotpk
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	otek Anbotek Anbotek	Anhote Anhote
otek A'	ME EQUIPMENT examined for compliance or appropriate tests such as dielectric strength of motor insulation according to 8.8.3 conducted	Anbotek Anbotek Anbo	botek N Am
Anbotek Anbotek Anbo	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).	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbote
13.2.13.2	ME EQUIPMENT with heating elements	Anbote, Anb otek An	ootek N F
	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)	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotel
rek And	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)	Anbotek Anbotek Anbot	otek Nanbe
hotek	a 3) other ME EQUIPMENT with heating elements met test of 13.2.13.2 b)	Anbotek Anbotek	AnboteN Atek
Anbotek	When more than one test was applicable to same ME EQUIPMENT, tests performed consecutively	tek Anbotek Anbotek	Anbotek Anbotek
ek Anto	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anbotek
Anbotek	Test repeated on a second sample when interruption was due to rupture of a heating element or an intentionally weak part	lek Anbotek Anbotek	Anb Nek Anbotek
ak Anh	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	Anbotek Anbotek Anbote	N _{Anbo}
Anbotek Anbotek	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)	Anbotek Anbotek Anbotek	nbotek Anbotek



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Clause	Requirement Test	Result - Remark	Verdict	
ek Anbote	Operating period stopped when a non-SELF-RESETTING THERMAL CUT-OUT operated, or current interrupted without possibility of automatic restoration before THERMAL STABILITY	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Nabote kek Ant	
Anbotek Anbotek	ME EQUIPMENT switched off as soon as THERMAL STABILITY established and allowed to cool to room temperature when current not interrupted	ek Anbotek Anbotek	Anboth	
Anbote	Test duration was equal to RATED operating time for non-CONTINUOUS OPERATION	otek Anbotek Anbotek	N Anbote	
otek 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	Anbotek Anbotek Anbo	lek N And	
Anbotek	Controls limiting temperature in NORMAL CONDITION disabled, except THERMAL CUT-OUTS	K Whotek Wupotek	Anboth	
Anbotek	When more than one control provided, they were disabled in turn	otek Anbotek Anbotek	And N Anbotel	
otek Anbe	3) ME EQUIPMENT operated at RATED DUTY CYCLE until THERMAL STABILITY achieved, regardless of RATED operating time	Anbotek Anbotek Anbo	otek N Anbr	
13.2.13.3	ME EQUIPMENT with motors	Anbotes Anbe atek	anbot P	
Anbotek Anbotek	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	otek Anbotek Anbotek	Anbotek Anbotek	
nbotek Ar	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	Anbotek Anbotek Anbotek An	otek N And	
Anbote Anbotek	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	tek Anbotek Anbotek	Anbotek	
stek An	a 3) Tests performed consecutively when more tests were applicable to the same ME EQUIPMENT	Anbotek Anbotek Anbot	otek NAM	
hotek	b) Motor met running overload protection test of this clause when:	Anbotek Anbotek	inbote P	
Anbotek Anbotek	it is intended to be remotely or automatically controlled by a single control device with no redundant protection, or	lek Anbotek Anbotek	Anbotek Anbotek	
iek Vul	2) it is likely to be subjected to CONTINUOUS OPERATION while unattended	Anbotek Anbotek Anbote	P ^{Anb}	
Anbotek Anbotek	Motor winding temperature determined during each steady period and maximum value did not exceed Table 27 (Insulation Class, Maximum temperature measured °C)	Anbotek Anbotek An	inbotek Anbotek	



nbotek	EN 60601-1	Anbotek Anbotes	Annotek
Clause	Requirement Test	Result - Remark	Verdict
"otel	Anbote, Wung Pok Apotek, Wubo	All otek Anbotek	Anbo
K Anb	Motor removed from ME EQUIPMENT and tested separately when load could not be changed in appropriate steps	Anbotek Anbotek Anbotek	ictek Nupor
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anboten	Test not conducted where electronic drive circuits maintained a substantially constant drive current	otek Anbotek Anbote	K N Anbote
tek An	Test not conducted based on other justifications (justification)	Anbotek Anbotek Ant	otek N Anb
Anbotek Anbotek	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	Anbotek Anbotek	Anbotek Anbotek
3.2.13.4	ME EQUIPMENT RATED for NON-CONTINUOUS OPERATION	ontek Anbo Lak hote	Whole
tek Anbo	ME EQUIPMENT (other than HAND-HELD) operated under normal load and at RATED voltage or at upper limit of RATED voltage range until increase in temperature was \leq 5 °C in one hour, or a protective device operated	Anbotek Anbotek Anb	npotek N Anbo
Anbotek	When a load-reducing device operated in NORMAL USE, test continued with ME EQUIPMENT running idle	tek Anbotek Anbotek	Antite
Anbot	Motor winding temperatures did not exceed values in 13.2.10:	hootek Anbotek Anbotek	N Anbo
An	Insulation Class:	Anbotek Anbo. An	_
potek	Maximum temperature measured (°C)	abotek Anbore A	_

14	PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS)		Р
14.1 Anbote	Requirements of this clause not applied to PESS when it provided no BASIC SAFETY or ESSENTIAL PERFORMANCE, or	EUT not incorporated programmable software	k P Anbote
nbotek	- when application of ISO 14971 showed that failure of PESS does not lead to unacceptable RISK	Anbotek Anbotek Ant	inbote!N
Anbotek Anbote	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek



potek	EN 60601-1	And hotek Anbotek	inport A
Clause	Requirement Test	Result - Remark	Verdict
ek Anbotek Dotek 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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Nabotek hotek Abotek
Anbotek	Assessment of PROCESSES cited in this Clause made by internal audits	ek Anbotek Anbotek	Augrek
14.2 Anbo	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	Anbotek Anbotek Anbotek	Nobek Ando
14.3	RISK MANAGEMENT plan required by 3.5 of ISO 14971 includes reference to PEMS VALIDATION plan	Anbotek Anbotek	AnboiN
14.4	A PEMS DEVELOPMENT LIFE-CYCLE including a set of defined milestones has been documented	otek Anbotek Anbotek	An N
otek Anbo	At each milestone, activities to be completed, and VERIFICATION methods to be applied to activities have been defined	Inbotek Anbotek Anbo	ek N Anbo
Anbotek Anbotek	Each activity including its inputs and outputs defined, and each milestone identifies RISK MANAGEMENT activities that must be completed before that milestone	Anbotek Anbotek Anbotek	Anbotek Anbotek
k Anbot	PEMS DEVELOPMENT LIFE-CYCLE tailored for a specific development by making plans detailing activities, milestones, and schedules	Thotek Anbotek Anbotek	N ^{both}
upotek	PEMS DEVELOPMENT LIFE-CYCLE includes documentation requirements	Anbotek Anbotek An	otek N An
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	tek Anbotek Anbotek	Anbotek Anbotek
tek An	Problem resolution system meets the prescribed criteria depending on type of product:	hotek Anbotek Anbote	K NAnbo
nbotek	- it is documented as a part of PEMS DEVELOPMENT LIFE-CYCLE	Anbotek Anbotek An	inbote N
Anbotek	it allows reporting of potential or existing problems affecting BASIC SAFETY or ESSENTIAL PERFORMANCE	lek Anbotek Anbotek	Anbotek Anbotek
tek Aupo	it includes an assessment of each problem for associated RISKS	botek Anbotek Anbote	N _A nboth
logiek b	- it identifies criteria that must be met for the issue to be closed	Anbotek Anbotek Ant	nbotekN
Anbotek	 it identifies the action to be taken to resolve each problem 	Anbotek Anbotek	AnboN ^k



notek.	EN 60601-1	Anbotek Anbotek	THOTO P
Clause	Requirement Test	Result - Remark	Verdict
O.d.	Naposeki 1931 Aupor Air	And tek anbotok	Anbolst
14.6	RISK MANAGEMENT PROCESS	botek Anbotek Anbotel	Nuporo
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ibotek Anbotek
Anbotek Anbotek	In addition to the material in ISO 14971, Annex D, list of possible sources for HAZARDS associated with PEMS includes specified causes	otek Anbotek Anbotek	An Nite.
otek An	 failure of NETWORK/DATA COUPLING to provide characteristics necessary for PEMS to achieve its BASIC SAFETY OF ESSENTIAL PERFORMANCE 	Anbotek Anbotek Anbo	botek N Anbe
Anbotek Anbotek	 undesired feedback [physical and data] (such as unsolicited/ out of range/ inconsistent input or input from electromagnetic interference) 	K Anbotek Anbotek	Anbotek Anbotek
Ann	– unavailable data	oter And tek mbotek	Whose
Anbo	- lack of integrity of data	nbotek Anbo tek abo	ek N Anbo
oten An	– incorrect data	Anbotek Anbor An	notek N A
hbotek	- incorrect timing of data	anbotek Anbote Ar	N N
anbotek	- unintended interactions within & among PESS	k abotek Anbote	Nek Nek
Anbotek	unknown aspects or quality of third-party software	stek Anbotek Anbotek	Anbotek Anbotek
Anbo	- unknown aspects or quality of third-party PESS	nbotek Anbot Air bot	ek N _{Anbol}
nbotek Ani	 lack of data security, particularly vulnerability to tampering, unintended interaction with other programs and viruses 	Anbotek Anbotek An	otek N An
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	tek Anbotek Anbotek	Anbotek Anbotek
14.7 And	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	Anbotek Anbotek Anbotek Anbotek	otek Namu otek Anl
14.8 AND 161	An architecture satisfying the requirement is specified for PEMS and each of subsystems:	tek Anbotek Anbotek	Anbotek Anbotek
tek Aupo	The architecture specification makes use of considers the specified items to reduce RISK to an acceptable level, where appropriate:	Anbotek Anbotek Anbotek	k N _{Anbote}
botek P	a) COMPONENTS WITH HIGH-INTEGRITY CHARACTERISTICS	Anbotek Anbotek	inbote ^k N
V. Potek	b) fail-safe functions	And otek anbotek	Anbou
YUR YEA	c) redundancy	And tek spotek	NOTE



Mpor	EN 60601-1	Anbore And	botek
Clause	Requirement Test	Result - Remark	Verdic
Anbote	d) diversity;	potek Anbotek Anbo	Nup
Ant	e) partitioning of functionality	Anbotek Anbote And	Kek N
tek lbotek	f) defensive design potentially limiting hazardous effects by restricting available output power or by introducing means to limit travel of actuators	Anbotek Anbotek An	ibotek N
Anboten	g) allocation of RISK CONTROL measures to subsystems and components of PEMS	k Anbotek Anbotek	Andre
P.O.	h) failure modes of components and their effects;	Notes And Sotek Anbotek	Nup
VK VU	i) common cause failures	Anboten Anbo	N P
, v	j) systematic failures	Anbotes Anbe otek	potek N
oto. "	k) test interval duration and diagnostic coverage	Anbotek Anbo	Nodn
Anbotes	I) maintainability	ek Anbotek Anbo	Nie
Anbote	m) protection from reasonably foreseeable misuse	otek Anbotek Anbo	N
Anb	n) NETWORK/DATA COUPLING specification, when applicable	Anbotek Anbotek Anbo	ek N
4.9 potek	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	Anbotek Anbotek Ar	potek N Anbotek
4.10 And	A VERIFICATION plan containing the specified information used to verify and document functions implementing BASIC SAFETY, ESSENTIAL PERFORMANCE, or RISK CONTROL measures:	otek Anbotek Anbotek	Anbe
otek	milestone(s) when VERIFICATION is to be performed for each function	Anbotek Anbotek An	ootek N
Anbotek Anbotek	selection and documentation of VERIFICATION strategies, activities, techniques, and appropriate level of independence of the personnel performing the VERIFICATION	tek Anbotek Anbotek	Anbotek Anbotek
Ans	- selection and utilization of VERIFICATION tools	hoter Anbot	N P
N V	- coverage criteria for VERIFICATION	Anboten Anbo tek	otek N
4.11	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	Anbotek Anbotek Anbotek Anbotek	Anbotek
Anbot An	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	Anbotek Anbotek Anbotek Anbotek	otek An
nbotek	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	Anbotek Anbotek	nbote ^k N Anbote ^k



Aupore	EN 60601-1	Anbote And	botek
Clause	Requirement Test	Result - Remark	Verdict
hotel	Anboth An tok abotek Anbo	nbote anbote	Vur
14.12 And	Continued validity of previous design documentation assessed under a documented modification/change PROCEDURE	Anbotek Anbotek Anbotek	Nupo.
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	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anboter	a) characteristics of NETWORK/DATA COUPLING necessary for PEMS to achieve its INTENDED USE	botek Anbotek Anbotek	N
otek An	b) list of HAZARDOUS SITUATIONS resulting from a failure of NETWORK/DATA COUPLING to provide the specified characteristics	Vipotek Vipotek Vipotek Vipotek	botek N An
Anbotek	c) instructions to RESPONSIBLE ORGANIZATION containing required information and warnings	Aupotek Aupotek	Anboth Notek
Anbotek Anbo	 connection of PEMS to a NETWORK/DATA COUPLING that includes other equipment could result in previously unidentified RISKS and RESPONSIBLE ORGANIZATION shall identify, analyze, and control such RISKS 	ootek Anbotek Anbotek Anbotek Anbotek Anbotek	An N Anbote
Anbotek	 subsequent changes to NETWORK/DATA COUPLING introducing new RISKS and requiring new analysis; and changes to NETWORK/DATA COUPLING include: 	Anbotek Anbotek Ar	Anbote N Anbotek
Anbotek	- NETWORK/DATA COUPLING configuration change	stek anbotek Anbot	Note
Anbot	 connection of additional items to NETWORK/DATA COUPLING 	Mbotek Anbotek Anbote	sk N Anb
hotek An	- disconnecting items from NETWORK/DATA COUPLING	Anbotek Anbotek An	ootek N p
Anbotek	update of equipment connected to NETWORK/DATA COUPLING	Anbotek Anbotek	Anbotek
Anbore	upgrade of equipment connected to NETWORK/DATA COUPLING	otek Anboten Anbotek	Notel

15	CONSTRUCTION OF ME EQUIPMENT		Р
15.1 Anbotek	RISKS associated with arrangement of controls and indicators of ME EQUIPMENT addressed in RISK MANAGEMENT PROCESS, as confirmed by examination of RISK MANAGEMENT FILE	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
15.2 Anbot	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	botek Anbotek Anbotek Anbote Anbotek Anbotek Anbotek Anbotek	k P Anbote stek Anb



Anbote.	EN 60601-1	Anboten And	hotek
Clause	Requirement Test	Result - Remark	Verdict
anbote Anbote Anbotek	Inspection, servicing, replacement, and adjustment of parts of ME EQUIPMENT can easily be done without damage to or interference with adjacent parts or wiring	Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	Rubot An
15.3	Mechanical strength	abotek Anbote A	P. Pr
15.3.1 Anbote	Mold stress relief, push, impact, drop, and rough handling tests did not result in unacceptable RISK and ME EQUIPMENT displayed adequate mechanical strength	otek Anbotek Anbotek	Anbotek Anbote
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:	Anbotek Anbotek Anbotek Anbotek Anbotek	botek Anbotek
Anbotek Anbotek	No damage resulting in an unacceptable RISK sustained as determined by examination of RISK MANAGEMENT FILE	otek Anbotek Anbotek	An Protei
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 \pm 25 g solid smooth steel ball, approx. 50 mm in diameter from a height of 1.3 m	Anbotek Anbotek Anbotek Anbotek Anbotek Arbotek	ootek Anbotek
Anbotek	Test not applied to flat panel displays, platen glass of ME EQUIPMENT, or cathode ray tubes	otek Anbotek Anbotek	Anbotel
	No damage resulting in an unacceptable RISK sustained as shown in RISK MANAGEMENT FILE	hbotek Anboten Anbot	ek P _{Anb}
15.3.4	Drop test	Anbore An botek An	poter N P
15.3.4.1 Anbotek Anbotek	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 flat on a concrete or rigid base	Anbotek	Anbotek Anbotek Anbotek Anbotek
-tek	No unacceptable RISK resulted	Anbos An abotek An	ofer N M
15.3.4.2 Anbotek Anbotek	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)		Anbotek Anbotek Anbotek
botek Ant	No damage resulting in an unacceptable RISK sustained as determined by examination of sample and RISK MANAGEMENT FILE	Anbotek Anbotek Ant	otek N Ar



Anbotek	EN 60601-1	Anbotek Anboten A	notek hotek
Clause	Requirement Test	Result - Remark	Verdict
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	Anbotek Anbotek Anbotek Anbotek	Nupote Nupote
Anbotek Anbotek	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 ± 0.1 m/s against an ascending hardwood step obstruction without the sample going over the obstruction	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
otek Anbotek	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	Anbotek	otek N Anbo
Anbotek Anbotek Otek Anbot	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)	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ek Anbotek
Anbotek Anbotek	No damage resulting in an unacceptable RISK sustained as determined by examination of sample and RISK MANAGEMENT FILE	Anbotek Anbotek	Anbotek Anbotek
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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbot	otek Anbo
Anbotek Anbotek Anbotek	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 in 11.1.3, but no less than 70 °C	tek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek
otek Anb	No damage resulting in an unacceptable RISK	anbotek Anbote And	otek P Ani
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	Anbotek Anbotek Anbotek	Anbotek
tek Anbotek	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	botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbote otek Ant
15.4	ME EQUIPMENT components and general assembly	ek hotek Anbote	Anb Patek



Anbotek	EN 60601-1	anbotek Anbote	hotek
Clause	Requirement Test	Result - Remark	Verdict
15.4.1	Incorrect connection of accessible connectors, removable without a TOOL, prevented where an unacceptable RISK exists, in particular:	Anbotek Anbotek Anbotel	Bupore,
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
otek Anbo	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	Anbotek Anbotek Anbotek	Nobel Anbr
15.4.2	Temperature and overload control devices	Anbotek Anbot A	PiotP
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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
otek An	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:	Anbotek Anbotek Antotek Antotek Anbotek	potek N Anbotek
Anbotek Anbot	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 design and RISK MANAGEMENT FILE:	hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
nbotek Anbotek	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	Anbotek Anbotek An	N Anbotek
Anbote	e) Capacitors or other spark-suppression devices not connected between contacts of THERMAL CUT-OUTS	tek Anbotek Anbotek	Notek Anbot
hotek An	f) Use of THERMAL CUT-OUTS OR OVER-CURRENT RELEASES do not affect safety of ME EQUIPMENT as verified by following tests:	Anbotek Anbotek An	otek N Ani
Anbotek	Positive temperature coefficient devices (PTC's) complied with IEC 60730-1: 1999, clauses 15, 17, J.15, and J.17 as applicable	lek Anbotek Anbotek	Anbotek Anbotek
rek Aupor	ME EQUIPMENT containing THERMAL CUT-OUTS and OVER-CURRENT RELEASES operated under the conditions of Clause 13:	Anbotek Anbotek Anbotek	otek Ank
Anbotek Anbotek	SELF-RESETTING THERMAL CUT-OUTS and OVER-CURRENT RELEASES including circuits performing equivalent functions (other than PTC's) Certified according to appropriate standards	Anbotek Anbotek Anbotek Anbotek	nbotek Anbotek



Anboter	EN 60601-1	Anbotek Anbo	hotek
Clause	Requirement Test	Result - Remark	Verdict
ak Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbo	Nabot kek Ant
	Manual reset THERMAL CUT-OUTS and OVER-CURRENT RELEASES Certified in accordance with appropriate IEC standards	k Anbotek Anbotek	Anbotek Anbotek
otek Anbo	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	botek Aut
Anbotek	Thermal protective devices tested separately from ME EQUIPMENT when engineering judgment indicated test results would not be impacted	k Anbotek Anbotek	Anbotek Anbotek
k Anboi	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ootek Anb
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
15.4.2.2	Temperature settings clearly indicated when means provided to vary setting of THERMOSTATS	Anbotek Anbotek Anbo	ootek N An
15.4.3	Batteries Model Market	Anboter Anbo tek	nboteN
15.4.3.1	Battery housings from which gases can escape during charging or discharging likely to result in a HAZARD ventilated to minimize RISK of accumulation and ignition as verified by review of design and RISK MANAGEMENT FILE	tek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotel Anbotel
ter And	Battery compartments prevent accidental short circuiting of battery when this could result in a HAZARDOUS SITUATION as verified by examination of design and RISK MANAGEMENT FILE	Anbotek Anbotek Anbotek	otek N A
15.4.3.2	Means provided to prevent incorrect connection of polarity when a HAZARDOUS SITUATION may develop by incorrect connection or replacement of a battery	lek Anbotek Anbotek	Anbotek Anbotek
15.4.3.3	Overcharging of battery prevented by virtue of design when it could result in an unacceptable RISK as verified by review of design	Anbotek Anbotek Ank	nbotek N Ar
15.4.3.4	Lithium batteries that could become a HAZARD complied with appropriate tests of IEC 60086-4	Anboth Anbotek	Anbolik



no tek	EN 60601-1	Anbo K. Anbotok	impore A
Clause	Requirement Test	Result - Remark	Verdict
wotek.	Aupoten August Spotek Aupol	otek Anbotek	Aupo
tek Anbo	Tests of IEC 60086-4 waived on the lithium battery based on examination of design	botek Anbotek Anbotel	Nupore Nupore
15.4.3.5	A properly RATED protective device provided within INTERNAL ELECTRICAL POWER SOURCE to protect against fire caused by excessive currents when (in case of a short circuit) layout of internal wiring, cross-sectional area, rating of connected components can result in a fire:	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
ek Anbot	Protective device has adequate breaking capacity to interrupt the maximum fault current	ote Anbotek Anbotek	Nupo.
botek An	Justification for OVER-CURRENT RELEASES or FUSE exclusion is included in RISK MANAGEMENT FILE	Anbotek Anbotek Ann	botek N
15.4.4	Indicator lights provided to indicate ME EQUIPMENT is ready for NORMAL USE, except when apparent to OPERATOR from normal operating position, and marking of 7.4.1 are insufficient for this purpose:	otek Anbotek Anbotek	Anbotek Anbotek
cotek Anbot	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	nbotek Anbotek Anbo Anbotek Anbotek Anbo	ek N Anbo
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
otek Ant	Requirement not applied to heated stylus-pens for recording purposes	anbotek Anbotek Anbot	otek N And
Anbotek Anbotek	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	Anbotek Anbotek Anbotek	Anbotek Anbotek
bi.	Colours of indicator lights complied with 7.8.1	An atek anbotek	PN
otek Anb	Charging mode visibly indicated in ME EQUIPMENT incorporating a means for charging an INTERNAL ELECTRICAL POWER SOURCE	Anbotek Anbotek Anbotek Anbot	otek Nanbot
15.4.5	RISKS associated with pre-set controls addressed in RISK MANAGEMENT PROCESS when applicable as verified by review of RISK MANAGEMENT FILE:	Anbotek Anbotek	Anbotek
15.4.6	Actuating parts of controls of ME EQUIPMENT	ter Anbo sek hotek	PN
15.4.6.1	a) Actuating parts cannot be pulled off or loosened up during NORMAL USE	botek Anbotek Anbote	K NAnbote
Anbotek Anbotek	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 OF OPERATOR while ME EQUIPMENT is in use	Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek Anbotek



Aupote	EN 60601-1	anboten Anbo P	potek
Clause	Requirement Test	Result - Remark	Verdict
k Anbotek	c) Incorrect connection of indicating device to relevant component prevented by adequate construction when it could be separated without use of a TOOL	Anbotek Anbotek Anbotek Anbotek Anbotek	Nnbot lek Anl
Anbotek Anbotek	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	Anbotek Anbotek Anbotek	Anbotek Anbotek
k Anbor	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 required in NORMAL USE with no unacceptable RISK	Anbotek Anbotek Anbotek Anbotek	Napot lek Ant
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 viceversa, of the controlled parameter when this could cause a HAZARDOUS SITUATION	Anbotek Anbotek Anbotek Otek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbote Anbote
	Torque values in Table 30 applied 10 times in each direction to rotating controls for 2 sec:	Anbotek Anbotek An	ootek N
Anbotek Anbotek	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:	Anbotek Anbotek	Anbotek Anbotek
15.4.7	Cord-connected HAND-HELD and foot-operated contr	ol devices	ek Nanb
15.4.7.1	a) HAND-HELD control devices of ME EQUIPMENT complied with 15.3.4.1	Anbotek Anbotek An	otek N p
	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	tek Anbotek Anbotek	Anbotek Anbotek
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:	Anbotek Anbotek Anbote	otek NAme
Anbotek	No unacceptable RISK caused by changing control setting when accidentally placed in an abnormal position	Anbotek Anbotek	Anbotek
15.4.7.3	a) Foot-operated control device is at least IPX1 & complies with tests of IEC 60529 (IP Code)	potek Anbotek Anbotek	k Anbo
potek Anb	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)	Anbotek Anbotek Anti-	nbotek N Ar
Anbotek	Probability of occurrence estimated as part of RISK MANAGEMENT PROCESS	ak Anbotek Anbotek	Anbotek



Anbore.	EN 60601-1	Anboten Anb	hotek
Clause	Requirement Test	Result - Remark	Verdict
10/0	k Aupor Air tok apoter Aupo	week Anboto	Aur
15.4.8	Aluminum wires less than 16 mm ² in cross- sectional area are not used	botek Anbotek Anbotel	Robo kek
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	Anbotek Anbotek Anb	N N N
Anbotek	b) Oil containers in MOBILE ME EQUIPMENT sealed to prevent loss of oil during transport	k Anbotek Anbotek	Anbotek
Anbo	A pressure-release device operating during NORMAL USE is, optionally, provided	otek Anbotek Anbotek	Nupo
otek A	c) Partially sealed oil-filled ME EQUIPMENT and its parts provided with means for checking the oil level to detect leakage	Anbotek Anbotek Anbo	lootek N An
Anbotek	ME EQUIPMENT and technical description examined, and manual tests conducted to confirm compliance with above requirements	Anbotek Anbotek	Anbotek
15.5 Anbo	MAINS SUPPLY TRANSFORMERS OF ME EQUIPMENT and separation in accordance with 8.5	I transformers providing	ek An
15.5.1	Overheating	nbotek Anbot Air	otek P
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	Anbotek Anbotek Anbotek	AnboteP Anbotek
	During tests, windings did not open, no HAZARDOUS SITUATION occurred, and maximum temperatures of windings did not exceed values in Table 31	nbotek Anbotek Anbotek	ek Ant
botek	Dielectric strength test of 8.8.3 conducted on transformer after short circuit and overload tests .:	Anbotek Anbotek An	ooter P
15.5.1.2	Transformer output winding short circuited, and test continued until protective device operated or THERMAL STABILITY achieved:	tek Anbotek Anbotek	Anbore
Anbot An	Short circuit applied directly across output windings for transformers not tested according to 5X frequency and 5X voltage test of 15.5.2	hotek Anbotek Anbotek Anbot	k P Anb
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:	Anbotek Anbotek An	inbote N
15.5.2 Anbou	Transformer windings provided with adequate insulation to prevent internal short-circuits that could cause overheating which could result in a HAZARDOUS SITUATION	botek Anbotek Anbotek	Anbote Anb
potek Anbotek	Dielectric strength tests were conducted in accordance with requirements of this clause with no breakdown of insulation system and no detectable deterioration of transformer:	Anbotek Anbotek Anb	nbotek



Anbotek	EN 60601-1	Anbotek Anboten A	hotek
Clause	Requirement Test	Result - Remark	Verdict
15.5.3	Transformers forming MEANS OF PROTECTION as required by 8.5 comply with IEC 61558-1:1997,	potek Anbotek Anbotek	Rabotel
rek	Clause 5.12	Anbo Anbroak Anbro	re, Aug

16	ME SYSTEMS		N
16.100te	After installation or subsequent modification, ME SYSTEM didn't result in an unacceptable RISK	k Anbotek Anbotek	An Niek
k Aupo	Only HAZARDS arising from combining various equipment to form a ME SYSTEM considered	nbotek Anbotek Anbotek	lek Anbo
otek Ar	 ME SYSTEM provides the level of safety within the PATIENT ENVIRONMENT equivalent to ME EQUIPMENT complying with this standard 	Anbotek Anbotek An	botek N Ar
Anbotek Anbotek	ME SYSTEM provides the level of safety outside PATIENT ENVIRONMENT equivalent to equipment complying with their respective IEC or ISO safety standards	otek Anbotek Anbotek	Anbotek Anbotek
otek W	- tests performed in NORMAL CONDITION, except as specified	Anbotek Anbotek Anbot	N And
inbotek otek	 tests performed under operating conditions specified by MANUFACTURER of ME SYSTEM 	Anbotek Anbotek An	Anbote N
Anbotek Anbotek	Safety tests previously conducted on individual equipment of ME SYSTEM according to relevant standards not repeated	stek Anbotek Anbotek	Antotek Antotek
nbotek Andotek	RISK MANAGEMENT methods, optionally, used by MANUFACTURER of an ME SYSTEM reconfigurable by RESPONSIBLE ORGANIZATION OF OPERATOR to determine configurations with highest RISKS and measures to ensure any configuration of ME SYSTEM will not present unacceptable RISKS	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N Anbotek
Anbore	Non-ME EQUIPMENT used in ME SYSTEM complied with applicable IEC or ISO safety standards	lek Anbotek Anbotek	Notek
tek An	Equipment relying only on BASIC INSULATION for protection against electric shock not used in ME SYSTEM	Anbotek Anbotek Anbote	otek Ant
16.2	ACCOMPANYING DOCUMENTS of an ME SYSTEM	Anbo A. botek	nbote N
Anbotek Anbotek	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	ek Anbotek Anbotek	Anbotek Anbotek
iek Anh	ACCOMPANYING DOCUMENTS regarded as a part of ME SYSTEM	Anbotek Anbotek Anbo	otek N Anb
Anbotek Anbotek	ACCOMPANYING DOCUMENTS are, optionally, provided in electronic format (e.g. electronic file format or CD ROM) and ME SYSTEM is capable of displaying or printing these documents	Anbotek Anbotek Anbotek Anbotek	nbotek Anbotek



Anbotek	EN 60601-1	Anbotek Anbote A	hotek
Clause	Requirement Test	Result - Remark	Verdict
Anbotel Anbre	a) ACCOMPANYING DOCUMENTS provided for each item of ME EQUIPMENT supplied by MANUFACTURER	otek Anbotek Anbote	Napot
otek A	b) ACCOMPANYING DOCUMENTS provided for each item of non-ME EQUIPMENT supplied by MANUFACTURER	Anbotek Anbotek Anb	botek N
nbotek	c) the required information is provided:	k abotek Anbote	And Nek
Anbotek	 specifications, instructions for use as intended by MANUFACTURER, and a list of all items forming the ME SYSTEM 	otek Anbotek Anbotek	Anbor Anbor
otek Ar	 instructions for installation, assembly, and modification of ME SYSTEM to ensure continued compliance with this standard 	Anbotek Anbotek Anbo	botek N Am
Anbotek	 instructions for cleaning and, when applicable, disinfecting and sterilizing each item of equipment or equipment part forming part of the ME SYSTEM 	Anbotek Anbotek	Anbotek Anbotek
Anbo	additional safety measures to be applied during installation of ME SYSTEM	nbotek Anbotek Anbotek	ek Anb
ster Ar	identification of parts of ME SYSTEM suitable for use within the PATIENT ENVIRONMENT	Anbotek Anbotek Ar	potek N
Anbotek	additional measures to be applied during preventive maintenance	Anbotek Anbotek	Anbotek
	 a warning forbidding placement of MULTIPLE SOCKET-OUTLET, when provided and it is a separate item, on the floor 	tek Anbotek Anbotek	N Anbote
tek An	a warning indicating an additional MULTIPLE SOCKET-OUTLET or extension cord not to be connected to ME SYSTEM	Anbotek Anbotek Anb	ootek N
Anbotek Anbotek	 a warning to connect only items that have been specified as part of ME SYSTEM or specified as being compatible with ME SYSTEM 	tek Anbotek Anbotek	Anb Nek
Anboth	maximum permissible load for any MULTIPLE SOCKET-OUTLET(S) used with ME SYSTEM	botek Anbotek Anbot	K N Anbo
hotek Anbotek	 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 	Anbotek Anbotek Anbotek	otek N A
Anbotek Anbote Anb	- an explanation indicating RISKS of connecting non-ME EQUIPMENT supplied as a part of ME SYSTEM directly to wall outlet when non-ME EQUIPMENT is intended to be supplied via a MULTIPLE SOCKET-OUTLET with a separating transformer	ootek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	N Anbotek Anbotek Anbo
Anbotek I	an explanation indicating RISKS of connecting any equipment supplied as a part of ME SYSTEM to MULTIPLE SOCKET-OUTLET	Anbotek Anbotek	nbote ^k N



Aupote.	EN 60601-1	Anboten Anbo	hotek
Clause	Requirement Test	Result - Remark	Verdict
k Anbote	permissible environmental conditions of use for ME SYSTEM including conditions for transport and storage	Potek Aupotek Aupotek	Nupo,
nbotek	- instructions to OPERATOR not to, simultaneously, touch parts referred to in 16.4 and PATIENT	Anbotek Anbotek	hotek N
Anbotek	d) the following instructions provided for use by RESPONSIBLE ORGANIZATION:	ek Anbotek Anbotek	Anbotek Anbotek
Anbo	adjustment, cleaning, sterilization, and disinfection PROCEDURES	otek Anbotek Anbotek	Nupo
otek A	 assembly of ME SYSTEMS and modifications during actual service life shall be evaluated based on the requirements of this standard 	Anbotek Anbotek Anb	botek N An
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	otek Anbotek Anbotek	Anbotek Anbotek
16.4 And And And And Andotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ootek Anbotek Anbotek
16.5 Anbo	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N both
Anbotek Anbotek	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	k sotek anbote	Anbotek Anbotek
otek An	WORKING VOLTAGE was highest voltage across SEPARATION DEVICE during a fault condition, but not less than MAXIMUM MAINS VOLTAGE (V):	Anbotek Anbotek Anbot	otek NAmb
16.6	LEAKAGE CURRENTS	And stek abotek	N N N
16.6.1	TOUCH CURRENT in NORMAL CONDITION, from or between parts of ME SYSTEM within the PATIENT ENVIRONMENT, did not exceed 100 µA:	lek Anbotek Anbotek	Anbotel
otek An	Touch current did not exceed 500 µA in event of interruption of any non-permanently installed protective earth conductor, from or between parts of ME SYSTEM within PATIENT ENVIRONMENT . :	Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek A
16.6.2	Current in PROTECTIVE EARTH CONDUCTOR of MULTIPLE SOCKET-OUTLET did not exceed 5 mA:	Anbotek Anbotek	AnboN ^k



Auporg	EN 60601-1	Anbote And	potek
Clause	Requirement Test	Result - Remark	Verdict
16.6.3	PATIENT LEAKAGE CURRENT and total PATIENT LEAKAGE CURRENT of ME SYSTEM IN NORMAL CONDITION did not exceed values specified for ME EQUIPMENT in Tables 3 and 4	Anbotek Anbotek Anbotek Anbotel	Nupo,
unbotek otek	Measurements made using a device as in clause 8.7.4.4	Anbotek Anbotek A	Anbot N
16.7	ME SYSTEM complied with applicable requirements of Clause 9 when a MECHANICAL HAZARD existed:	otek Anbotek Anbotek	An Note.
16.8 Anbo	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	Anbotek Anbote	botek An
16.9	ME SYSTEM connections and wiring	Jk abotek Anbotes	N'ek
16.9.1	Incorrect connection of accessible connectors, removable without a TOOL, prevented where a HAZARDOUS SITUATION could otherwise exist:	otek Anbotek Anbotek	Anbote Anbote
stek Ar	- Connectors complied with Clause 15.4.1	no otek Anbotek Anbo	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
16.9.2	MAINS PARTS, components and layout	hotek Ahbo tek abot	ek NAnb
16.9.2.1	a) – MULTIPLE SOCKET-OUTLET only allows connection using a TOOL, or	Anbotek Anbotek An	otek N
Anbotek	- MULTIPLE SOCKET-OUTLET is of a type that cannot accept MAINS PLUGS of any of the kinds specified in IEC/TR 60083, or	Anbotek Anbotek	Anbotek
Anbot	MULTIPLE SOCKET-OUTLET is supplied via a separating transformer	botek Anbotek Anboten	K Anb
	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	Anbotek Anbotek An	otek N A
Anbotek Anbotek	marked either individually or in combinations, with the maximum allowed continuous output in amperes or volt-amperes, or	ak Aupotek Aupotek	Anbotel Anbotel
ak Anbore	marked to indicate the equipment or equipment parts it may safely be attached to	botek Anbotek Anbote	k N _{Anb} o
pote ^k	- MULTIPLE SOCKET-OUTLET is a separate item or an integral part of ME EQUIPMENT or non-ME EQUIPMENT	Anbotek Anbotek Ant	otek N A
Anbotek	c) MULTIPLE SOCKET-OUTLET complied with IEC 60884-1 and the following requirements:	Anbotek Anbotek	Aupo NK
AUD	- CREEPAGE and CLEARANCES complied with 8.9	Isk Anbo Kek	ANORE



Mps	March Ando	EN 60601-1	Anbo K Sotok	Anboter
Clause	Requirement Test	E. Not	Result - Remark	Verdict
o today	Aupo K Motok Aut	ore And	tek abotek Anbo	N
K Anb	It is CLASS I, and PROTECTIVE EARTH is connected to earthing contacts in s		hotek Anbotek Anbo	rek Nups
nbotek notek	- PROTECTIVE EARTH TERMINALS and EARTH CONNECTIONS comply with 8.6, impedance for ME SYSTEM was up to higher when conditions of 8.6.4 b) me	, except total 400 mΩ, or	Anbotek Anbotek Ar	Anbotek N Anbotek
Ans	- ENCLOSURE complied with 8.4.2 d)	otek Anbot	an Anbotek	ANN
Anb	- Mains terminal devices and wiring with 8.11.4, when applicable	g complied	cotek Anbotek Anbot	ek Napol
stek A	- RATINGS of components are not in conditions of use		Anbotek Anbotek An	N N N
Anbotek	 Electrical terminals and connectors SOCKET-OUTLETS prevent incorrect co accessible connectors removable with 	nnection of	Anbotek Anbotek	Anbotek Anbotek
Anbo	- POWER SUPPLY CORD complied with	8.11.3	obtek Anbore Am	ek Nhot
rek Anbe	d) Additional requirements applied w SOCKET-OUTLET combined with a septransformer:		Anbotek Anbotek Anb	potek N Ani
Anbotek Anbotek	 Separating transformer complied w 61558-2-1, except requirements of m RATED output power of 1 kVA and deprotection IPX4 were not applied 	naximum	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
700	- Separating transformer is CLASS I	hbotek Anb	ok An hotek Anbots	N
6k Vi	 Degree of protection against ingres specified as in IEC 60529 	s of water	Upore VIII	otek NAnt
botek otek	 Separating transformer assembly naccording to 7.2 and 7.3 	narked	Anbotek Anbotek	An Anbote N
	 MULTIPLE SOCKET-OUTLET permane to separating transformer, or socket- separating transformer assembly car MAINS PLUGS as identified in IEC/TR 6 	outlet of not accept	rek abotek Anbe	Anbote Anbote
16.9.2.2	Removal of any single item of equipm SYSTEM will not interrupt the protective any other part without simultaneous of electrical supply to that part	e earthing of	Anbotek Anbotek Anbotek	unbotek N
Anbotek	Additional PROTECTIVE EARTH CONDUCTION detachable only by use of a TOOL	CTORS can be	lek Anbotek Anbotek	Anb N
16.9.2.3	Conductors connecting different item SYSTEM protected against mechanica		botek Anbotek Anbote	N N

17	ELECTROMAGNETIC COMPATIBILITY OF ME EQUIPMENT AND ME SYSTEMS		
Anbotek	RISKS associated with items addressed in RISK MANAGEMENT PROCESS as confirmed by review:	Exceed the evaluted scope	Anbotek Anbotek



Anbotek	EN 60601-1	Anbotek Anbote A	hotek
Clause	Requirement Test	Result - Remark	Verdict
botel	Anbor An tok potek Anbre	- v otek anbote	Vu _n
sk Aup	electromagnetic phenomena at locations where ME EQUIPMENT or ME SYSTEM is to be used as stated in ACCOMPANYING DOCUMENTS	Anbotek Anbotek Anbotek	Nabou tek Anb
Anbotek Anbotek	- introduction of electromagnetic phenomena into environment by ME EQUIPMENT or ME SYSTEM that might degrade performance of other devices, electrical equipment, and systems	Anbotek Anbotek Anbotek	Anbotek Anbotek

ANNEX G	PROTECTION AGAINST HAZARDS OF IGNITION ANESTHETIC MIXTURES	OF FLAMMABLE	N
G.2	Locations and basic requirements	Anb otek Anbotek Ar	N
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	EUT is not intended to be used in areas in which flammable anesthetics or flammable agents for disintection	Anbotek Anbotek
G.2.2 An	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	Anbotek Anbotek Anbotek Anbotek Anbotek	potek N Ar Anbotek
G.2.3 Anbot	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	tek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbot Anbot
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 OF APG ME EQUIPMENT and complied with G.4 and G.5	Anbotek Anbotek An	Anbotek Anbotek
G.2.5 Anbor	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	botek Anbotek Anbotek	k Ant
botek Anbotek	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	Anbotek Anbotek An	inbote N
G.3 nooten	Marking, ACCOMPANYING DOCUMENTS	tek Anbotek Anbot	Note
G.3.1 _{Anb} ote	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 :	potek Anbotek Anbote	And And
potek p	Length of green-coloured band is ≥ 4 cm, and size of marking is as large as possible for particular case	Anbotek Anbotek Anb	nbotekN hotek
Anbotek	When above marking not possible, relevant information included in instructions for use:	ak Anbotek Anbotek	Anbote'



Clause	Requirement Test	Result - Remark	Verdict
Clause	Requirement Test	Result - Remark	verdict
K Anbore	Marking complied with tests and criteria of 7.1.2 and 7.1.3	lotek Anbotek Anbotek	Nabot sek
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	Anbotek Anbotek Anbotek	hotek N
Anbotek	Marking is as large as possible for the particular case	otek Anbotek Anbotek	AnNito
k Anbo	When above marking not possible, the relevant information included in instructions for use:	Inbotek Anbotek Anbot	ek N Ani
potek Ar	Marking complied with tests and criteria of 7.1.2 and 7.1.3	Anbotek Anbotek Ar	botek N
G.3.3 cok	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	Anbotek Anbotek	Anbotek Anbotek
G.3.4	ACCOMPANYING DOCUMENTS contain an indication enabling the RESPONSIBLE ORGANIZATION to distinguish between CATEGORY AP and APG parts	hotek Anbotek Anbotek Anbotek	ootek N Ant
G.3.5	Marking clearly indicates which parts are CATEGORY AP or APG when only certain ME EQUIPMENT parts are CATEGORY AP or APG	Anbotek Anbotek	Anbotek Anbotek
G.4 Anbo	Common requirements for CATEGORY AP and CATEG	ORY APG ME EQUIPMENT	Noote
G.4.1 And	a) CREEPAGE and CLEARANCES between points of POWER SUPPLY CORD connection are according to Table 12 for one MEANS OF PATIENT PROTECTION	Anbotek Anbotek Anbot	otek N _{Anb}
Anbotek Anbotek	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	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
	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	botek Anbotek Anbotek	k Aup
G.4.2	Construction details	And tek nbotek Ant	N
Anbotek	a) Opening of an ENCLOSURE providing protection against penetration of gases or vapours into ME EQUIPMENT or its parts possible only with a TOOL	Anbotek Anbotek	Anbotek
Anbote'	b) ENCLOSURE complies with requirements to minimize arcing and sparking due to penetration of foreign objects	See appended Table 8.10	AND And
otek p	 no openings on top covers of ENCLOSURE, except for openings for controls covered by control knobs 	Anbox Antotek Anto	N A



,nb ,ck	hotek Anboro Ans tek Inbotek	Aupo, A. Solok	impose.
Anbore	EN 60601-1	Aupote Aup	Anbotek
Clause	Requirement Test	Result - Remark	Verdict
Anbotek Anbote	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	Anbotek Anbotek Anbotek Anbotek	Nupotek Nupotek
Anbotek Anbotek	 openings in base plates prevented penetration of a solid cylindrical test rod of 12 mm in diameter applied in all directions without appreciable force 	k Anbotek Anbotek A	Anbotek
kotek Anbotek	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	otek Anbotek	N N N N N N N N N N N N N N N N N N N
G,4.3	a) Electrostatic charges prevented on CATEGORY AP and APG ME EQUIPMENT by a combination of appropriate measures	otek Anbotek Anbotek	Anbotek Anbotek
ek Anbo	Use of antistatic materials with a limited electrical resistance as specified in G.4.3 b)	nbotek Anbotek Anbot	ek N _{Anbo}
Anbotek Anbotek	 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 	Anbotek Anbotek An	Anbotek Anbotek
ak Anbot	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	Anbotek Anbotek Anbotek Anbotek Anbotek	Notek Anbotek Potek Anbot
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	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbote ^K Anbote ^k
G.5	Requirements and tests for CATEGORY AP ME EQUIPM	NENT, parts and components	N
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)	Anbotek Anbotek Anbotek Anbotek	otek Nane otek Anh
Anbotek Anbotek Ctek Anbote	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	ek Anbotek Anbotek botek Anbotek Anbotek Anbotek Anbotek Anbote	Anbotek Anbote Anbote Anbote



nbolek	EN 60601-1	Anbotek Anbotel	atek atek
Clause	Requirement Test	Result - Remark	Verdict
10100	k Anbot All tek aboten Anbo	atek anbote	Aur
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	otek Anbotek Anbotel	Naboli tek Anb
Anbotek A	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	Anbotek Anbotek An	Anbotek A
G.5.3	ME EQUIPMENT, its parts, and components producing sparks in NORMAL USE and CONDITION complied with temperature requirements of G.5.2, and U _{max} and I _{max} occurring in their circuits, and	otek Anbotek Anbotek Otek Anbotek Anbotek Anbotek	Annotel Anbotel
otek A	complied as follows:	Anbotek Anbotek Anbi	rek h
nbotek	Measured $U_{max} \le U_{zR}$ with I_{zR} as in Fig. G.1:	Anbotek Anboten A	N
W. Spolek	Measured U _{max} ≤ U _c with C _{max} as in Fig. G.2:	An Anbotek	Anbo N
An	Measured I _{max} ≤ I _{zR} with U _{zR} as in Fig G.1:	And stek anbotek	AnN
k Anbo	Measured $I_{max} \le I_{zL}$ with L_{max} and a $U_{max} \le 24$ V as in Fig G.3	hotek Anbotek Anbotek	N _{pore}
otek Ar	 Combinations of currents and corresponding voltages within the limitations IzR.UzR ≤ 50 W extrapolated from Fig G.1 	Anbotek Anbotek Anbo	potek N A
abotek	No extrapolation made for voltages above 42 V	Anbotek Anboten	Anbe Nek
Anbotek Anbotek	 Combinations of capacitances and corresponding voltages within limitations of C/2U² ≤ 1.2 mJ extrapolated from Fig G.2 	tek Anbotek Anbotek	Anbotek Anbotek
rek	No extrapolation made for voltages above 242V	hoe An botek Anboi	N Anbo
nbotek hotek	$\mbox{U}_{\mbox{\scriptsize max}},$ additionally, determined using actual resistance R when the equivalent resistance R was less than 8000 Ω	Anbotek Anbotek An	Anbotek
Anbotek	 Combinations of currents and corresponding inductances within limitations L/2I² ≤ 0.3 mJ extrapolated from Fig G.3 	lek Anbotek Anbotek	Anbotek Anbotek
rek Au	No extrapolation made for inductances larger than 900 mH	anbotek Anbotek Anbot	otek NAnb
Anbotek Anbotek	 U_{max} was the highest supply voltage occurring in circuit under investigation with sparking contact open, taking into consideration MAINS VOLTAGE variations in 4.10 	Anbotek Anbotek Anbotek Anbotek	inbote ^N Anbote ^k
rek Aupote	 I_{max} was the highest current flowing in circuit under investigation with sparking contact closed, taking into consideration MAINS VOLTAGE variations required in 4.10 	ootek Anbotek Anbotek	Anbot
botek	 C_{max} and L_{max} taken as values occurring at the component under investigation producing sparks 	Anbotek Anbotek	anbote ^k N
Mr.	- Peak value considered when a.c. supplied	And tek abotek	Anbou



Nhotek	EN 60601-1	Anbotek Anbotek	in otek
Clause	Requirement Test	Result - Remark	Verdict
ek Anbotek botek Ar	- An equivalent circuit calculated to determine equivalent max capacitance, inductance, and equivalent U _{max} and I _{max} , either as d.c. or a.c. peak values in case of a complicated circuit	Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	Noboto Noboto
Anbotek Anbotek	Temperature measurements made according to 11.1, and U _{max} , I _{max} , R, L _{max} , and C _{max} determined with application of Figs G.1-G.3:	k Anbotek Anbotek	Anbot N.
Anbotek No	Alternatively, compliance was verified by examination of design data	otek Anbotek Anbotek	N Anbotel
G.5.4	External ventilation with internal overpressure	Anboter Anboatek Anbo	iek N Anbe
Anbotek Anbotek	ME EQUIPMENT, its parts, and components enclosed in an ENCLOSURE with external ventilation by means of internal overpressure complied with the following requirements:		Anbotek Anbotek
Anbotek otek Anbotek Inbotek	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)	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ek Anbotek botek Ar
Anbotek Anbotek	b) Overpressure inside ENCLOSURE was 75 Pa, min., in NORMAL CONDITION (Pa)	tek Anbotek Anbotek	Anhotek
otek Anto	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	Anbotek Anbotek Anbotek Anbot	otek Anbo
Anbotek Anbotek	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	ek Anbotek Anbotek	Anbotek Anbotek
stek Anb	ME EQUIPMENT energized at will or repeatedly when overpressure was continuously present	Anbotek Anbotek Anbot	otek NAME
Anbotek Anbotek	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)	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
tek Aupote	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)	potek Anbotek Anbotek	Anbote Stek Ant
G.5.5	ENCLOSURES with restricted breathing	Anboten Anbo tek	abote ^K N
Anbotek Anbotek	ME EQUIPMENT, its parts, and components enclosed in an ENCLOSURE with restricted breathing complied with the following:	ek Anbotek Anbotek	AnboNk Anbotek



JDS P	bytek Anbote And tek abotek	Aupo. K. Stek	hotel f
Anboten	EN 60601-1	Anbotek Anbo tek	botek
Clause	Requirement Test	Result - Remark	Verdict
ek Anbotek Dotek 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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Nabotek lek Anb
Anbotek Anbotek	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:	otek Anbotek Anbotek	Anbotel Anbotel
otek Anbo	c) Gas-tightness of ENCLOSURE containing inlets for flexible cords maintained when the cords were stressed by bending or pulling	Anbotek Anbotek Anbo	ek N Anbr
Anbotek	Cords are fitted with adequate anchorages to limit stresses	Anbotek Anbotek	AnboiN
k Anbotek	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	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	An Notek Anbotek
18K	Overpressure not reduced below 200 Pa	Anbo ak Abotek Ar	Pore N
Anbotek Notek	Tests waived when examination of ENCLOSURE indicated it is completely sealed or gas-tight without a doubt (100 % degree of certainty)	Anbotek Anbotek	Anbotek Anbotek
k Anbot	Operating temperature of external surface of ENCLOSURE was ≤ 150 °C in 25 °C (°C):	botek Anbotek Anbotek	N _{port}
otek An	Steady state operating temperature of ENCLOSURE also measured (°C)	Anbotek Anbotek Anb	otek N Ar
G.6	CATEGORY APG ME EQUIPMENT, parts and component	s thereof	AnboteN
G.6.1	ME EQUIPMENT, its parts, and components did not ignite FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE under NORMAL USE and SINGLE FAULT CONDITION	lek Anbotek Anbotek	Anbotek Anbotek
hotek Ani	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	Anbotek Anbotek Anbotek Anbotek Anbotek	otek NAN
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	ek Anbotek Anbotek Dotek Anbotek Anbotek Anbotek Anbotek Anbote Anbotek Anbotek Anbote	Anbotek Anbotek Anbotek Anbotek
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	ek Anbotek Anbotek	Anbotek Anbotek



	EN 60601-1		
Clause	Requirement Test	Result - Remark	Verdict
ek Anbotel	a) no sparks produced and temperatures did not exceed 90 °C, or	totek Anbotek Anbotel	Nuporo
Anbotek Anbotek	b) a temperature limit of 90 °C not exceeded, sparks produced in NORMAL USE, and SINGLE FAULT CONDITIONS, except U_{max} and I_{max} occurring in their circuits complied with requirements, taking C_{max} and L_{max} into consideration:	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anboter	Measured $U_{max} \le U_{zR}$ with I_{zR} as in Fig. G.4:	otek Anbotek Anbo	Nobote
K Anbo	Measured U _{max} ≤ U _{zC} with C _{max} as in Fig. G.5:	botek Anbotek Anbo	ek N
otek A'	Measured I _{max} ≤ I _{zR} with U _{zR} as in Fig G.4:	Anbotek Anbotek Anbo	N N
Anbotek -k	Measured $I_{max} \le I_{zL}$ with L_{max} and a $U_{max} \le 24$ V as in Fig G.6:	Anbotek Anbotek Ar	Anbotek A
	 Extrapolation from Figs G.4, G.5, and G.6 was limited to areas indicated 	Anbotek Anbotek	Ant Niek
k Anbo	 U_{max} was the highest no-load voltage occurring in the circuit under investigation, taking into consideration mains voltage variations as in 4.10 	hotek Anbotek Anbotek	N _p
Inbotek hotek	 I_{max} was the highest current flowing in the circuit under investigation, taking into account MAINS VOLTAGE variations as in 4.10 	Anbotek Anbotek Ar	Aupotek
Ambotek	- C _{max} and L _{max} are values occurring in relevant circuit	tek Anbotek Anbotek	Anhotek
otek Anbol	$ U_{\text{max}}$ additionally determined with actual resistance R when equivalent resistance R in Fig G.5 was less than 8000 Ω	anbotek Anbotek Anbot	k N Anbo
inbotek atek	Peak value taken into consideration when a.c. supplied	Anbotek Anbotek An	Anbote N
Anbotek Anbotek	 An equivalent circuit calculated to determine max capacitance, inductance, and U_{max} and I_{max}, either as d.c. or a.c. peak values in case of a complicated circuit 	lek Anbotek Anbotek	Anbotek Anbotek
hotek Anbotek Anbotek	- 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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek N An
Aupore	Above requirement not applied to transformers complying with this standard	potek Anbotek Anbote	Anbot Anbot
lotek Ant	Above requirement not applied to wire-wound current-limiting resistors provided with a protection against unwinding of the wire in case of rupture	Anbotek Anbotek Anb	otek N Ani
Anbotek	Compliance verified by examination of CATEGORY APG ME EQUIPMENT, parts, and components, or	Anbotek Anbotek	AnboN ^k



Anbotek	Anno EN 60601-1	anbotek Anbote A	hotek
Clause	Requirement Test	Result - Remark	Verdict
hotel	Anbot An tek shotek Anbo	tek whole	Vun
k Anb	Temperature measurements made in accordance with 11.1, or	hotek Anbotek Anbotel	N.nbor
otek p	U _{max} , I _{max} , R, L _{max} and C _{max} determined together with application of Figs G.4-G.6	Anbotek Anbotek Anb	Motek N
anbotek	Alternatively, compliance verified by comparison with design data:	ak abotek Anbotek	Anboth
G.6.4	ME EQUIPMENT, its parts, and components heating a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE provided with a non-SELF-RESETTING THERMAL CUT-OUT and complied with 15.4.2.1:	hotek Anbotek Anbotek	And Anbote
upotek V.	Current-carrying part of heating element is not in direct contact with FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE	Anbotek Anbotek Anbotek	botek N A
G.7	Test apparatus for flammable mixtures	ek Anboto Ana	Ntek
Anbore	Test apparatus used was in accordance with this Clause and Fig G.7	obtek Anbotek Anbotek	Naotek

ANNEX L	INSULATED WINDING WIRES FOR USE WITHOU INSULATION	IT INTERLEAVED	N
L.1 hotek Anbotek Anbotek	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	stek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
L.2	Wire construction		otek N
nbotek Anbotek	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	Anbotek Anbotek An	Anbotek Anbotek
Anbote	Layers of spirally wrapped wire insulation are sufficiently secured to maintain the overlap	hotek Anbotek Anbotek	Noote phot
L.3 Ant	Type Test	hotek Anbotek Anbo	N N
hotek	The wire subjected to tests of L.3.1 to L.3.4 at a temperature and a relative humidity specified	Anbotek Anbotek Ant	nbotek N
Anbote	Temperature (°C)	Anbotel Anbo	_
Anbole	Humidity (%):	ek Anbotek Anbo	_
L.3.1 Anbote	Dielectric strength	notek Anbotek Anbo	N N
tek Anbotek Anbotek	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:	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek NAN



upor	EN 60601-1	Anbote And	potek
Clause	Requirement Test	Result - Remark	Verdict
Anbotek	– 3000 V for BASIC and SUPPLEMENTARY INSULATION (V)	otek Anbotek Anbote	Nupc
iek A.	- 6000 V for REINFORCED INSULATION (V):	Albor Andrew Andrew	N
3.2	Flexibility and adherence	Anbor An	N
Anbotek Anbotek	Sample subjected to flexibility and adherence test 8 of IEC 60851-3:1996, clause 5.1.1, using mandrel diameters of Table L.1	k Anbotek Anbotek	Anbotek Anbotek
tek Anbo	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	Anbotek Anbotek Anbotek	N ^{nbo} lek Ar
botek	Test voltage was at least the voltage in Tables 6 and 7but not less than the following:	Anbotek Anbotek	Anbot N
Anbotek	– 1500 V for BASIC and SUPPLEMENTARY INSULATION (V)	otek Anbotek Anbotek	Ann
Aupor	- 3000 V for REINFORCED INSULATION (V):	sbotek Anbote, Anti-	N N
	Tension applied to wire during winding on mandrel calculated from the wire diameter equivalent to 118 MPa ± 11.8 MPa	Anbotek Anbotek Anbo	potek N
3.3	Heat Shock	k nbotek Anbore	Nek
Anbotek	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	hotek Anbotek Anbotek	Anbot Anbot
ootek An	Test voltage was at least the voltage in Tables 6 and 7, but not less than the following:	Anbotek Anbotek An	otek N
Anbotek	– 1500 V for BASIC and SUPPLEMENTARY INSULATION (V):	Anbotek Anbotek	Anbotek
Anbo	- 3000 V for REINFORCED INSULATION (V)	lek Aupor Wi. Wotek	Noo
Anbe	Oven temperature based on Table L.2 (°C):	potek Anbor Air	
rek Anb	Mandrel diameter and tension applied as in clause L.3.2, (MPa; N/mm²)	Anbotek Anbotek An	otek N
Inbotek	Dielectric strength test conducted at room temperature after removal from the oven	Anbotek Anbotek	inbotek
.3.4 oo ^{tek}	Retention of electric strength after bending	tek hootek Anbote	N _n ot
Anbote	Five samples prepared as in L.3.2 subjected to dielectric strength and bending tests	potek Anbotek Anbote	Ant Ant
otek And	Test voltage was at least the voltage in Tables 6 and 7, but not less than the following:	Anbotek Anbotek Ant	otek N
nbotek	- 1500 V for BASIC and SUPPLEMENTARY INSULATION (V)	Anbotek Anbotek	inbote N
Anbote	- 3000 V for REINFORCED INSULATION (V):	ek Anboten Anbo	Note



Aupore.	EN 60601-1	Anboten Anb	hotek
Clause	Requirement Test	Result - Remark	Verdict
hote	k Anboth Anbo	The stek and steel	Aug
Ant Anb	Test voltage applied between the shot and conductor.	botek Anbotek Anbotel	Nupor
	Mandrel diameter and tension applied as in L.3.2, (MPa; N/mm²)	Anbotek Anbotek Anb	ipotek N
L:À	Tests during manufacture	Anbote And Otek	Model
L.4.1	Production line dielectric strength tests conducted by the manufacture according to L.4.2 and L.4.3.:	ek Anbotek Anbotek	AnWiek
L.4.2	Test voltage for routine testing (100 % testing) is at least the voltage in Tables 6 and 7 but not less than the following:	Anbotek Anbotek Anbotek	lek And
inbotek	- 1500 V r.m.s. or 2100 V peak for BASIC and SUPPLEMENTARY INSULATION (V)	Anbotek Anbotek Ar	botek
Anbotek	- 3000 V r.m.s. or 4200 V peak for REINFORCED INSULATION (V)	Anbotek Anbotek	Anbytek
L.4.3	Sampling tests conducted using twisted pair samples (IEC 60851-5:1996, clause 4.4.1)	botek Anbotek Anbotek	N _{por}
otek Ar	Minimum breakdown test voltage at least twice the voltage in Tables 6 and 7 but not less than:	Anbotek Anbotek Anbo	potek N
nbotek	- 3000 V r.m.s. or 4200 V peak for BASIC and SUPPLEMENTARY INSULATION	Anbotek Anbotek	Anbotek
Anbotek	- 6000 V r.m.s. or 8400 V peak for REINFORCED INSULATION	otek Anbotek Anbotes	Anbotek Anbotek



4.11 TABLE: Power Input		240	Р
Operating Conditions / Ratings	Voltage (V)	Frequency (Hz)	Power (W or VA)
Max. normal work	100	hotel 50 Anbot	42
	230 Dotak 230 Dotak	50 AT	199
	Anbotek 100 Anbot	60 tek	Anboten 45 noonek
Anbotek Anboten Anbo	Anbot 230 Anbo	tek 60 botek	Anbote 102 Ano

Supplementary Information:

Rated supply conditions: 100-230V, 50/60Hz, 100W. See copy of marking plate for details.

7.1.3	TABLE: Durability of marking test		Р	
Characteris	tics of the Marking Label tested:		Re	emarks
Material of I	Marking Label:	Ar. notek Anboten	P	, botek
Ink/other pri	inting material or process	K kotek Anbotek	N.A.	ek woo
Material (co	mposition) of Warning Label:	Printed Printe	P Anbo	C AI
Ink/other pri	inting material or process	link And tek nbote	P M	Pu Vu
Other	motek Anbote Am dek	Anbotek Anbo kek at	N.A.	Aupoter

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.

8.4.3	TABLE: ME EQUIPI - measurement of disconnection of	fvoltage	or cal	culatio	n of sto						P
Maximum	n allowable voltage (V)	upo,	be.	'aotek	Pupo	re.	Anba	θγ	: 60	Ant	,010
			Vc	ltage m	easured	(V)					
√oltage N	Measured Between:	1	2	3 _{nb} c	e ^k 4	Anbore	6 A	Ziek	8 _A n	9 9	10
Plug pins	1 and 2	16	16	8	16	20	16	12	16	16	16
Plug pin '	1 and enclosure	<1	<1 ₀	.e ^{1€} <1	An<1	<1 A ⁽¹⁾	<1.k	<1	o'<1	<1 ⁰	<1
Plug pin 2	2 and enclosure	<1	<1	<1	<1 ⁰⁰	<1	<1	× <1	<1	<1× ^{n/2}	<1
Maximun	n allowable stored cha	rge whe	n meas	ured vo	ltage ex	ceeded	60 v (μc))ore _K	: 45	ik.	upor
			Calcul	ated sto	red cha	rge (μc)			'		
√oltage N	Measured Between:	ek 1	2 tek	3 📈	poten	5	6	7 _{bote}	8	¹¹⁰ 9	10
Plug pins	1 and 2	otek	V. V.	e _K	Aupoten	An'	Notek .	Ant	otek	Anbore	*eK
Plug pin '	1 and enclosure	botek	P.	ootek	Anbot	Vo.	Yu.	ik.	rupotek	Anb	o'tek
Plug pin 2	2 and enclosure	Ano	3/4	nbotek	An	pot	Pur	otek	Anbote	P	upo.



Supplementary information:

8.4.4	TABLE: Internal capacit calculation of the stored capacitors or circuit pa	d charge in capacit	ive circuits (i.e., acces		N
Maximum	allowable residual voltage (V	1): nbotek Anbo	All Motek	60 V	'upo
Maximum	allowable stored charge whe	en residual voltage ex	ceeded 60 V	45 μC	Anbo
	on of the capacitive circuit essible capacitor or circuit parts)	Measured residual voltage (V)	Calculated stored charge (μC)	Rem	narks
otek A	Anbotek Anbotek	Anbotek Anbotek	Anbotek An	Aupotek Aupo	hotek Ant

Supplementary information: Evaluated within the approved power supply uints

	TABLE: defibrillation electrical energies	N			
Test Condition: Figs. 9 & 10	Measurement made on accessible part	Applied part with test voltage	Test voltage polarity	Measured voltage between Y1 and Y2 (mV)	Remarks
Anbote	An Anbote	Aupo Yak	abotek Ar	bote. Aug	anbotek

8.5.5.1b TABLE: defib	E: defibrillation-proof applied parts – verification of recovery time							
Applied part with test voltage	Test voltage polarity	Recovery time from documents (s)	Measured recovery time (s)	Rer	narks			
Anbor An hotek	Anbotek	Anb tek abot	SK WUPOLG	rotek.	Anbotek			
Supplementary information:	Ambotek	Aupo ak	ootek Anbote.	Andatek	anbotek			

8.5.5.2	TABLE: DEFIBRILLATION-PROOF APPLIED PARTS or PATIENT CONNECTIONS OF DEFIBRILLATION-PROOF APPLIED PARTS - Energy reduction test –measurement of Energy delivered to a 100 Ω load								
	Test Voltage applied to	Measured Energy E1 (mJ)	Measured Energy E2 (mJ)		nergy E1 5 of E2 (%)				
PATIENT CO	NNECTION 1 or APPLIED PART with NNECTIONS 2, 3, and 4 of the same RT connected to earth	nbotek Anbotek	Anbotek And	inbotek	k Anbotek				
PATIENT CO	NNECTION 2 or APPLIED PART with NNECTIONS 1, 3, and 4 of the same RT connected to earth	Anbotek Anb	nbotek Anbotek	Anb	otek Anb				
PATIENT CO	NNECTION 3 or APPLIED PART with NNECTIONS 1, 2, and 4 of the same RT connected to earth	tek Anbotek	Anbotek Anbo	tek Lotek	Anbotek Anbotek				



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PATIENT CONNECTION 4 or APPLIED PART with PATIENT CONNECTIONS 1, 2, and 3 of the same APPLIED PART connected to earth	(botek	Anbotek Anbotek	Anbotek	And Al	ibotek sootek	Anbotek Anbotek
Supplementary information: For compliance: E1 mu E1= Measured energy delivered to 100Ω with ME Equ E2= Measured energy delivered to 100Ω without ME	uipment co	onnected;	botek Anbots	nte ^K	Anbotek	tek Anbe

TABLE: Impedance and current-connections	carrying capa	bility of PROTEC	TIVE EARTH	N
EQUIPMENT & impedance measured between parts	Test current (A) /Duration (s)	Voltage drop measured between parts (V)	Maximum calculated impedance (mΩ)	Maximum allowable impedance (mΩ)
LY INSTALLED ME EQUIPMENT, petween PROTECTIVE EARTH and a PROTECTIVELY EARTHED part	- Anbotek	- Anbotek	Anbotek	100
NT with an APPLIANCE INLET, petween earth pin in the APPLIANCE PROTECTIVELY EARTHED part	Anbotek Anb	botek Anbot	ek Anbote	100
NT with a non-DETACHABLE POWER D, impedance between the arth pin in the MAINS PLUG and a LY EARTHED part	- Anbotek	Anbotek Anbotek	Amotek Ant	200
	EQUIPMENT & impedance measured between parts LY INSTALLED ME EQUIPMENT, Detween PROTECTIVE EARTH d a PROTECTIVELY EARTHED part NT with an APPLIANCE INLET, Detween earth pin in the APPLIANCE PROTECTIVELY EARTHED part NT with a non-DETACHABLE POWER D, impedance between the arth pin in the MAINS PLUG and a	CONNECTIONS EQUIPMENT & impedance measured between parts LY INSTALLED ME EQUIPMENT, between PROTECTIVE EARTH da PROTECTIVELY EARTHED part NT with an APPLIANCE INLET, between earth pin in the APPLIANCE PROTECTIVELY EARTHED part NT with a non-DETACHABLE POWER D, impedance between the parth pin in the MAINS PLUG and a	EQUIPMENT & impedance measured between parts LY INSTALLED ME EQUIPMENT, Detween PROTECTIVE EARTH da PROTECTIVELY EARTHED part NT with an APPLIANCE INLET, Detween earth pin in the APPLIANCE PROTECTIVELY EARTHED part NT with a non-DETACHABLE POWER D, impedance between the arth pin in the MAINS PLUG and a	EQUIPMENT & impedance measured between parts Test current (A) /Duration (S) LY INSTALLED ME EQUIPMENT, OPETWEEN PROTECTIVE EARTH da PROTECTIVELY EARTHED part Not with an APPLIANCE INLET, OPETWEEN EARTHED part Not with a non-DETACHABLE POWER DO, impedance between the parth pin in the MAINS PLUG and a Test current (A) /Duration measured between parts (W) Test current (A) /Duration measured between parts (V) Test current (A) /Duration measured between parts (M) Test current (A) /Duration (M) Test current

8.7	TABLE: leakage current				P
	of leakage current and test ion (including single faults)	Supply voltage (V)	Supply frequency (Hz)	Measured max. value (µA)	Remarks
Fig. 13 - E	Earth Leakage (ER)				Maximum allowed values: 5 mA NC; 10 mA SFC
- nbc	stek Anbor An note	K - Anbo	- And	rek_	abotek Anbote And
Fig. 14 - T	ouch Current (TC)	_	_	_	Maximum allowed values: 100 uA NC; 500 uA SFC
From patit	tent connection to enclosure	264	60	Anbes 5	NC potek Anbore A
From patit	tent connection to enclosure	264	60	P 6	SFC notek Ambolie
Fig. 15 - F	Patient Leakage Current (P)	_	_	_	Maximum allowed values: Type B or BF AP: 10 uA NC; 50 uA SFC (d.c. current); 100 uA NC; 500 uA SFC (a.c.) Type CF AP: 10 uA NC; 50 uA SFC (d.c. or a.c. current)
From patit	tent connection to earth	- Na	abotek	Anbore.	And atek -nbotek An
From patit	tent separted form earth	Upor -	Pr. Hotek	Vipole y	And tek - abotek
	Patient leakage current with the F-type applied parts (PM)	_	_	_	Maximum allowed values: Type B: N/A Type BF AP: 5000 uA Type CF AP: 50 uA
From pation	ent to applied parts	264	60	otek 17 A	NC for BF AP



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From patient to applied parts	264	60	Lek 18 Anbo	SFC for BF AP
Fig. 17 - Patient leakage current with external voltage on Signal Input/Output part (SIP/SOP)	_	_	_	Maximum allowed values: Type B or BF AP: 10 uA NC; 50 uA SFC(d.c. current); 100 uA NC; 500 uA SFC (a.c.); Type CF AP: 10 uA NC; 50 uA SFC (d.c. or a.c. current)
Anbotek Anb	Anbore V	All - otek	-nboten	- Anbo ok hotek
Fig. 18 - Patient leakage current with external voltage on metal Accessible Part that is not Protectively Earthed	_	_	_	Maximum allowed values: Type B or BF AP: 500 uA Type CF: N/A
K spotek Anbote And	lek vol	otek - An	bo. K	-hotek Anboter Anb
Fig. 19 – Patient Auxiliary Current	_	_	_	Maximum allowed values: Type B or BF AP: 10 uA NC; 50 uA SFC (d.c. current); 100 uA NC; 500 uA SFC (a.c.); Type CF AP: 10 uA NC;50 uA SFC (d.c. or a.c. current)
Througth appliance parts	264	60 Anbot	11 ^{Anu}	NC for BF AP
Througth appliance parts	264	otek 60 Mil	oter 13 Ani	SFC for BF AP
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 uA NC; 100uA SFC (d.c. current); 500 uA NC; 1000 uA SFC (a.c.); Type CF AP: 50 uA NC; 100 uA SFC (d.c. or a.c. current)
-Anbote Anbote	And	- nbote	- Vupor	- All Otek Anbotek
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 uA NC; 100uA SFC (d.c. current); 500 uA NC;1000 uA SFC (a.c.); Type CF AP: 50 uA NC; 100 uA SFC (d.c. or a.c. current)
bote. And stek upotek	Anbor-	Au Otek	Amboten	- Anbo sek abotek
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: 5000uA Type CF: 100 uA
- And tek abotek Anbot	- PI	notek-	mboten - P	Up rek spotek Wupo
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 uA Type CF: N/A
Anbor An tek abotek	Anbo.	"ote,	-Aupole	- And sek shotek

Supplementary information:

Note 1: For EARTH LEAKAGE CURRENT see 8.7.3 d) and 8.7.4.5;

Note 2: For TOUCH CURRENT see 8.7.3 c) and 8.7.4.6;

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

Note 4: Total Patient Leakage current values are only relative to equipment with multiple APPLIED PARTS of the same type. See 8.7.4.7 h). The individual APPLIED PARTS complied with the PATIENT LEAKAGE CURRENT values.

Note 5: In addition to conditions indicated in the Table, tests conducted at operating temperature and after humidity preconditioning of 5.7, EQUIPMENT energized in stand-by condition and fully operating, max rated supply frequency, at 110 % of the max RATED MAINS VOLTAGE, and after relevant tests of Clause 11.6 (i.e., overflow, spillage, leakage, ingress of water and particulate matter, cleaning & disinfection, & sterilization).

ER - Earth leakage current

A - After humidity conditioning

TC - Touch current

B - Before humidity conditioning

P - Patient leakage current 1 - Switch closed or set to normal polarity



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PA - Patient auxiliary current

TP - Total Patient current

PM - Patient leakage current with mains on the applied parts

MD - Measuring device

0 - Switch open or set to reversed polarity

NC - Normal condition

SFC - Single fault condition

TABLE: Dielectric strength test of solid insulating materials with safety function – MEANS OF OPERATOR PROTECTION (MOOP) / MEANS OF PATIENT PROTECTION (MOPP)								
Insulation under test (area from insulation diagram)	Insulation Type (1 or 2 MOOP/MOPP)	Reference PEAK WORKING VOLTAGE (U) V peak	PEAK WORKING VOLTAGE (U) V d.c.	A.C. test voltages in V r.m.s ¹	Dielectric breakdown after 1 minute Yes/No ²			
Reinforced insulation	2 MOOP	339	- notek	4000Vac	No See a)			
Reinforced insulation	2 MOOP	399	K And Hotek	4000Vac	No See b)			

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.

Dieletric strength tests performed before humidity treatment, after humidity treatment, after temperature tests and after single faults tests.

- a) Dielectric strength test was performed between input and enclosure;
- b) Dielectric strength test was performed between input and accessible termianl or applianed parts (primary to secondary); Dieletric strength tests performed before humidity treatment, after humidity treatment, after temperature tests and after single faults tests.

N		between parts of oppos	n in the MAIN	TABLE: Short circuiting AIR CLEARANCES for insul polarity in lieu of comply	
arks	Re	AZARDOUS SITUATION served (i.e., fire hazard, ock hazard, explosion, ocharge of parts, etc.)? Yes/No	est in lieu of Creepage Tance of Air Learance ¹	areas of circuits short- ed and test conditions	
JK P	Anb	Anbotek Anboten	Anbo	ote, Aug Motek	iek Anbo
rek .	Ano.	Al. Anbotek	otek Anbe	nbote. And sotek	potek Ar
, ok	Su. b	K Anbote	abotek A	Anbote, And	hotek
	otek A	Antotek Anbot	PAGE DISTANC	ary information: - AIR CLEARANCE CD - C	

,0	8.9.3.2	Table: Thermal cycling tests on one solid insulation between conductive		oound forming	N
~7	Test Sequence No.	Each test duration and temperature	Dielectric test voltage (V = Test voltage in 8.8.3 times 1.6)	Dielectric stren humidity precor cl. 5.7 except f Breakdown	nditioning per or 48 h only,
4	An.	68 h at T1 ± 2 °C = °C 1	ek Anbore And	k anbotek	Anbo
The state of the s	ek Yun	1 h at 25 °C ± 2 °C	botek Anboten Anbo	otek Anbote	K Anbore

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).



Test Sequence No.	Each test duration and temperature	Dielectric test voltage (V = Test voltage in 8.8.3 times 1.6)	Dielectric stren humidity precor cl. 5.7 except for Breakdown	ditioning per or 48 h only,
Aupote, A	2 h at 0 °C ± 2 °C	An hotek Anboten	Aupo	abotek
Anbotek	1 or more h at 25 °C ± 2 °C	And otek Anbotek	Anbors	
Anbotek (68 h at T1 ± 2 °C = °C 1	And otek Anbote	Anbore	Ambotel
2 Anbotes	1 h at 25 °C ± 2 °C	otek Anbo tek nb	otek Anbote	
otek Z M	2 h at 0 °C ± 2 °C	Anbotek Anbot Ar.	abotek Anbo	
The second secon	1 or more h at 25 °C ± 2 °C	Anbotek Anbote A	hotek Ar	
'upor	68 h at T1 ± 2 °C = °C 1	nbotek Anbote	Vu. Potek	Anbotek
	1 h at 25 °C ± 2 °C	k abotek Anbote	Anu	
Anboten 2	2 h at 0 °C ± 2 °C	Anhotek Anhote	Anbe	
Anbote	1 or more h at 25 °C ± 2 °C	ore And hotek And	tek Anbo	
stek Anbe	68 h at T1 ± 2 °C =°C 1	Inporter American	abotek Anbo	.ak
sotek an	1 h at 25 °C ± 2 °C	Anboten And	anbotek Ar	
no 4	2 h at 0 °C ± 2 °C	Anbotek Anbo	n abotek	
Anboarek	1 or more h at 25 °C ± 2 °C	k Anbotek Anbot	A. botek	

Supplementary information:

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

8.10 T	ГАВІ	LE: List of critical co	omponents			Р
Componer Part No.		Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity ¹
Plug Ant	poter	Ningbo Qiaopu Electric Co., Ltd.	D03	250V, 16A	VDE 0620	VDE 40002872
Power cord	∠υρ _ο	Longwell Company	H05VV-F	3G1.0mm ²	VDE 0281	VDE 121253
Connector	p.	Ci Da	HK-WN/D003- 4Straight	10A 250V	lek Aupoten	VDE Andrew
Switch	N.	Eurob	Type 86	10A-250V	botek Anbo	Tested with appliance
Fuse Market	. No	Gondar	Fuse	5FCP	Hupore Au	VDE V
PCB	Anbo	VIAFINE ELECTRONIC & TECHNOLOGY LTD	V-2	V-0, 130℃	UL 796	UL E321710
Internal wire	e E	DONGGUAN CHENG XING ELECTRONIC CO LTD	2468	Min.26AWG, 80℃	UL 758 Anbot	UL E249743
Power 1	*eK	Hengfuote An	AC/DC standard	HF20W-S-24	An.	CErek Anbox



- domestic type

Supplementary information:

1) An asterisk indicates a mark which assures the agreed level of surveillance. See Licenses and Certificates of Conformity for verification.

AUDE	.E: To insulatio	ulagra	polek	Anbe	v	cek An	pore P	'Un	-botek
Area	Number and type of Means of Protection:	СТІ	Working	y voltage	Required creepage (mm)	Required clearanc	Measured creepage	Measured clearance	REMARKS
	MOOP, MOPP		Vrms	Vpk			m) (mm) (mm)		
1	BI(1MOOP)	IIIb or	240	339	2.5	2.0 hot	>2.5 mb	>2.5	Opposite polarity of mains part
2	DI/RI (2 MOOP)	lek IIIb	240	339	5.0 An	oote 4.0	>5.0	>5.0	Isolating components(Pri. to Sec.)
3	DI/RI (2 MOOP)	IIIbek Anbudak	240	339	5.0	4.0 ak	>5.0°	>5.0	Mains to plastic enclosure ¹⁾
4	DI/RI (2 MOPP)	IIIb	240	339	8.0	5.0 Ant	>8.0	>8.0	AP to mains ¹⁾
5	BI (1 MOPP)	IIIb	240	339	4.0	2.5	>5.0	>5.0	AP to Enclosure ¹⁾

Supplementary information:

^{1).} The actual value is greater than 20.0mm.

9.2.2.2	.2.2.2 TABLE: Measurement of gap "a" according to Table 20 (ISO 13852: 1						
Part of body		Allowable adult gap ¹ , mm	Measured adult gap, mm	Allowable children gap ¹ , mm		red children p, mm	
Body	. An'	> 500	anbotek Anbo	> 500	Anbote.	VUP.	
Head	tek	> 300 or < 120	potek Ant	> 300 or < 60	nbote	Yupor Vupor	
Leg	Yes	> 180	Am	> 180	P	otek Anb	
Foot	100°	> 120 or < 35	Cer. Yupa	> 120 or < 25	Vu.	siek .	
Toes	Aupoter	> 50	botek Anbot	> 50	EK	¹ Upo ek	
Arm	nbote	> 120	hotek Anbote	> 120	botek	Anboro	
Hand, wrist, t	fist	> 100	And stek subote	> 100	notek	Anbotek	
Finger	Vu.	> 25 or < 8	Anbo	> 25 or < 4	Vun.	k abote	

Supplementary information: ¹ In general, gaps for adults used, except when the device is specifically designed for use with children, values for children applied.

-V-	~0°	Z1.	187	70-		1/	-010	V.11.
10.1.1	TABLE:	Measureme	nt of X - radiatio	n				N
Maximum al	llowable ra	adiation pA/k	.g (μSv/h) (mR/h)	36 (5 µ	ιSv/h) (0.	5 mR/h)		
,		ce area unde e no./ Descr			asured R Vkg (µSv/h		Re	emarks



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1/	Thought TR	Ann	Anbotek	Aupore **	potek	Anboten	Augo	Anbotek
2/	Anbore	And	anbotek	Anbor	Ar. hotek	Anboten	Anbe	nbotek
3/	Anboten	Anbo	hotek	Anbore	K Ann	anbotek.	Anbo	, , , , , , , , , , , , , , , , , , ,

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

11.1.1	TABLE: Excessive temperatu	ires in ME EQUIPM	ENT			Р
Model No	lek Anbatek Anbo	See above	Anbote	Ann	anbotek	Aupor
Test ambie	nt (°C):	25	Anbotek	Anbo	hotek	Anbo
Test supply	voltage/frequency (V/Hz)4:	264Vac/60Hz	anbotek	Anbo	k not	ek ar

Model No.	Thermo- couple Thermocouple location ³ No.		Max allowable temperature ¹ from Table 22, 23 or 24 or RM file for AP ⁵ ()	Max measured temperature ² , (°C)	Remarks
ek - nbot	ek 1 Anb	Suply cord	105	note 27.9 Anbo	_Anb
Lok -	otek 2	plug	105	30.6	botek - Anbo
Kor Ku	3	Internal wire	80	29.3	Anbotek And
Aupore K	4 tok	Enclosure of power	Ref. Mbotte	49.0	anbatek .
Anbote.	Amb 5 stek	PCB Anbotek Anbot	note 130 Anbote	35.2	abotek .
Arboter.	6	Switch	105	31.0	ek - botek
ek -Anbote	7 Anbe	Enclosure	130	notek 27.9 Anbo	- Note

Supplementary information:

- 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.

11.1.3 TABLE: Temperature of windings by change-of-resistance method										N
	Temperati	ure T of w	vinding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	
	ek no	tek	Aupore	Ans	sk and	otek Ar	bo	a botek	Aupote	Ano
	rek by	botek	Anbote	And	otek .	nbotek	Anbore	An	Anb	Disk Wul
	lpor b	botek	Anbo	ter Au	atek P	nbotek	Anbore	K VUD	IEK D	nbotek

Supplementary information: Had been evaluated within the approval power supply units.

¹ Maximum allowable temperature on surfaces of test corner is 90 °C

² Max temperature determined in accordance with 11.1.3e)

³When thermocouples used to determine temperature of windings, limits of Table 22 reduced by 10 °C.

⁴ Supply voltage:



N



Supplementary information:

13.2

11.2.2.1

Areas whe	re sparking mig	ht cause ignition:					Rer	marks
1. _e k	nbotek Ant	Y An	K Anbot	S.K.	Anbo eck	A. botel	Anbo	ie. Vi
2. _{tek}	nbotek	Anbote. And	otek an	potek	Anbor	An.	tek A	poter
3. tek	hotek	Anbores Ans	· otek	Anbotek	Anbot	Nek With	botek	Anbotek
	of the parts betw n, Manufacture	veen which sparks of	could occur (Compos	ition, Grade	!	Rer	marks
1. anb	otek Anbor	notek hotek	Anboien	Aup	tek.	nbotek	Anbore	Y Ann
2	nbotek Anb	or An botel	Anbot	S. P	upo	Notek Notek	Anbo	re. Vu
3. _{te} k	Anbotek P	"upore VK Pu	otek Anl	otek	Anbo	Pr. Spc	iek Ar	'poter
Test paran	neters selected	representing worst	case conditi	ons for M	IE EQUIPMEN	IT:	Rer	marks
Oxygen co	ncentration (%)	Anbore A	U. Ofek	nbotel	Aupo	. o.k	hotek	Anboie
Fuel	Pr. Zaote,	k Anboton	Anbo	vup.	tek Ar	lpose	Ann hotek	Anbot
Current (A)) And And	stek kultotek	Anbo	,K	nbotek	Aupor	And	ek Anl
Voltage (V) 	botek Anbotes	Anto	otek	Anbotek	Aupote	ok bus	otek
Capacitano	ce (μF)	"" Yupo	Yes Aug	atek	anbotek	Anbo	V. Vu	hotek
	or resistance (poter	YUPO Jek	· nbot	ek bu	pote	An. wotek
No. of trials	s (300 Min)	Au tok	Anbotek	Anbo	tek n	potek	Anbote	Ann
Sparks res	ulted in ignition	(Yes/No):	Anbotek	Anbo	tek h	nbotek	Anboton	K AUD
Test proce	at 3 times the v	n: a) 5) & Figs 35-37 vorst case values w						
Ai.	Anboten	Anbo	hotek	Anbore	And	-tek	nbotek	Anbo
13.1.2	waive SINGLE	surement of powe FAULT CONDITIONS flames, molten me	in 4.7, 8.1 b), 8.7. 2 , a	and 13.2.2		onents to	N
Power diss	sipated less than	າ (W)	·*	tek	Anbore	Ann	k ant	jotek p
Energy dis	sipated less tha	n (J)	rek	botek	Anbote	Aug	otek .	upotek
Part or cor	nponent tested	Measured power dissipated (W)	Calculated dissipate		SINGLE FAI	JLT CONDIT d (Yes/No)		Remarks
Air.	ek Anboten	Anbe	anbotek	Anbor	V. Vu.	hotek	Anbotek	Anbo
Y VIII	otek Anbot	Anbo sek	abotek	Anl	oto I	in otek	anbote	Anb
Vu,	-V	ootek Anbore	p.3	rek	aboten	AUP		otek

TABLE: Alternative method to 11.2.2.1 a) 5) to determine existence of an

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



Yar	-Hote Am stek and	K KOK	Ans
Clause No.	Description of SINGLE FAULT CONDITION	Results observed	HAZARDOUS SITUATION (Yes/No)
13.2.2	Electrical SINGLE FAULT CONDITIONS per Clause 8.1:	_	_
	Short circuit creepage distances: Power supply unit DC output	Circuit breaker switched off	Ambote No
	Interruption of protective earth conductor:	See cl.8.7 and table 8.7a)	No
13.2.3	Overheating of transformers per Clause 15.5:		_
	See Table: 15.5.1.2 & 15.5.1.3 for details.	oten Anbo K sote	Nonhote
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:		_
hpotek	No thermostats provided.	Aupoter, Yup	N.A.
13.2.5	Failure of temperature limiting devices according to 13.2.13 & 15.4.2, overloading, THERMOSTATS short circuited or interrupted, the less favourable of the two:	_	_
rek h	No temperature limiting devices provided.	upo k hotek Anh	N.A. Anto
13.2.6	Leakage of liquid - RISK MANAGEMENT FILE examined to determine the appropriate test conditions (sealed rechargeable batteries exempted)	_	_
Anbotek	No liquid used during normal use of the equipment. EUT is direct plug in power supply unit intended for supplying medical product by its output voltage.	Anbotek Anbotek	N.A. Ambotek
13.2.7	Impairment of cooling that could result in a HAZARD using test method of 11.1:	_	_
hotek	Single ventilation fans locked consecutively	Ar Anboten A	No
	Ventilation openings on top and sides impaired by covering openings on top of ENCLOSURE or positioning of ME EQUIPMENT against walls	Anbotek Anbotek	Anbotek Anbotek
Pri.	Simulated blocking of filters	k And Lotek Anbotek	No
K Pur	Flow of a cooling agent interrupted	aboter And atek and	No Anbo
13.2.8	Locking of moving parts – Only one part locked at a time – Also see 13.2.10 below:	_	_
botek	No moving parts provided.	hotek Anbotes	N.A.
13.2.9	Interruption and short circuiting of motor capacitors – Motor capacitors short & open circuited ¹ – Also see 13.10	_	_
ek n	otek Anbote Am otek Anbotek Ar	V measured =	N.A.
	abotek Anbotek Anbotek	V measured =	botel N.A. And
13.2.10	Additional test criteria for motor operated ME EQUIPMENT in 13.2.8 &13.2.9:		_
Anbotek Anbote	For every test in SINGLE FAULT CONDITION of 13.2.8 and 13.2.9, motor-operated EQUIPMENT stared from COLD CONDITION at RATED voltage or at the upper limit of RATED voltage range for specified time:	ek Anbotek Anbotek	A'N.A. Anbotek



Clause No.	Description of SINGLE FAULT CONDITION	Results observed	HAZARDOUS SITUATION (Yes/No)	
otek Yul	Temperatures of windings determined at the end of specified test periods or at the instant of operation of fuses, THERMAL CUT-OUTS, motor protective devices	Anbotek Anbotek An	potek N.A. Anb	
	Temperatures measured as specified in 11.1.3 d)	Anbotek Anbot	N.A.	
	Temperatures did not exceed limits of Table 26	k Anbotek Anbot	N.A.	
13.2.11	Failures of components in ME EQUIPMENT used in conjunction with OXYGEN RICH ENVIRONMENTS:	_	_	
otek Aug	EUT is not intended for use in oxygen rich environments.	Anbotek Anbotek Ant	otek N.A. And	
13.2.12	Failure of parts that might result in a MECHANICAL HAZARD (See 9 & 15.3):	_	_	
Anbotes	No such parts.	k Anboter And	N.A.	

Supplementary information:

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

15.4.6	TABLE: ac	tuating parts of c	ontrols of ME EQU	IPMENT – torqu	ue & axial pull tes	ts N	
Rotating control under test		Gripping diameter "d" of control knob (mm) 1	Torque from Table 30 (Nm)	Axial force applied (N)	Unacceptable RISK occurred Yes/No	Remarks	
Anbote	anbo Anbo	tek abotek	Anbote	Anba	Anbotek An	DOLO VIII	
stek ant	otek A	Por VII	ek Anboten	Anbo	hotek	Anbore Ans	
-otek	Anbotek	Anbor Am	botek Anbotek	Anbo	k anbotek	Anbore A	

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

15.5.1.2				ort-circuit applied				Р	
or at the first point that could be short circuited under SINGLE FAULT CONDITION Primary voltage (most adverse value from 90 % to 110 % of RATED voltage)(V)1									
RATED input	frequency (H	z)	Per-	Potek Mobote	:	Aup	50	_	
Winding tested	Class of insulation (A, B, E, F, or H)	Type of protective device (fuse, circuit breaker) /Ratings	Protective device operated Yes/No	Time to THERMAL STABILITY (when protective device did not operate)(Min)	allo temp Tab	mum wed from le 31 C)	Maximum winding temp measured (°C)	Ambient (°C)	
Secondary	B And	Inherently	Anbor	ok notek	10 A.T.	35	69.8	45	

Supplementary information:

¹Loads on other windings between no load and their NORMAL USE load. Short-circuit applied at end of windings or at the first point that could be short circuited under SINGLE FAULT CONDITION.



15.5.1.3		LE: transformer of the contract			ed only when prote	ective device	N	1
Primary vol	tage, ı	most adverse value	e between 9	0 % to 110 %	of RATED voltage (V)1 tek : Anb		Vuo-
RATED inpu	t frequ	iency (Hz)	Aup	Motek	Anbote An		nbotek -	Anl
					otective device & a		Anbotek	
		ed on Table 32 whe ormer, and it was s		device that or	perated under meth	od a) is	Ant	otek
Winding te	sted	Class of insulation (A, B, E, F, H)	used (fu	tective device use, circuit r)/Ratings	Maximum allowed temp from Table 31 (°C)	Maximum wind temp measur (°C)	HIA Land	nbient °C)
otek Ar	1000	k solek	Anboten	Aug	abotek	upore A	n- otek	

Supplementary information:

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	TABLI	E: Transformer dielectric strength	itioning of 5.7	N		
Transformer Model/Type/ Part No		Test voltage applied between	Test voltage, (V)	Test frequency (Hz)	Breakdown Yes/No	Deterioration Yes/No
Insulation	3K	Primary & secondary windings	Aupo	lek - nbc	rek Aupore	V V
transformer:		Primary winding & frame	- Aupe	18K K	botek - Anti	- Aug
		Secondary winding & frame	botek A	1000 E	hotek h	nboter An

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

411	- Av	10°	1,1	10°	1	01
16.6.1	TABLE: LEAKAGE	CURRENTS IN M	E SYSTEM _ TOU	ICH CURRENT MEASUREMEI	NTS	N
CURRENT mea	rea where TOUCH asured (i.e., from or arts of ME SYSTEM ENT ENVIRONMENT)	Allowable TOUCH CURRENT in NORMAL CONDITION (μA)	Measured TOUCH CURRENT IN NORMAL CONDITION (μA)	Allowable TOUCH CURRENT in event of interruption of PROTECTIVE EARTH CONDUCTOR, (μA)	CURREN inter PROTEG	ured TOUCH IT in event of ruption of CTIVE EARTH ICTOR, (µA)
Anbotek	Anbo	100	hote. And	500	nbor	All.
Anbotel	Anboro	100	Anboten A	500 potek	Aupore	x And
ek nbc	otek Anbote	100 tok	Anbotek	Anbou Kan Solek	Anboth	And
*ek	botek Anbote	100	Anbotek	500 Annoted	Ant	ofer Ant
lpo, by	-botek Anbi	100	lek anbotel	500	ntek.	Anbotek
Supplement	ary information:	nbotek Anbo	isk in	Anbore, Anb	rek	nbotek

¹Loads on other windings between no load and their NORMAL USE load.



Photo Documentation







Photo Documentation





***** End of Report *****