

TEST REPORT

EN IEC 62368-1:2020+A11:2020

Audio/Video, information and communication technology equipment - Part 1: Safety

requirements

For

OpenVox Communication Co., Ltd.

Room 624, 6/F, Tsinghua Information Port, Qingqing Road, Longhua Street, Longhua District, Shenzhen ,Guangdong ,China

No. Contraction of the second	Model: UC120P	R
53	2024-04-08	L.
This Report Concer	ns: Equipment Type:	142
🛛 Original Report	IP-PBX	Shirt Shirt
Test By:	Eric Tao/ Eric Tao	3
Report Number:	TH2403326-C01-R014	Long Contraction
Test Date:	2024-03-26 to 2024-04-08	
Reviewed By:	Prince Huang/	22
Approved By:	Prince Huang/ Prince Huang	N. N.
Prepared By:	Shenzhen Tian Hai Test Technology Co., Ltd. 4F, A3 BLDG, The Silicon Valley Power intelligent terminal	No.
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen Tian Hai Test Technology Co.,Ltd.

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	TEST REPORT	
	EN IEC 62368-1:2020+A11:2020	
eport Reference No		3
ested by (signature)	Eric Tao	the state
eviewed by (signature)	Prince Huang	ny
pproved by (signature)	Prince Huang	e e
ate of issue		N.
L. L.	I I I I I I I I I I I I I I I I I I I	4M
esting Laboratory Name	Shenzhen Tian Hai Test Technology Co., Ltd.	
ddress		
	industrial park, Guanlan street, Longhua district, Shenzhen	
		4
pplicant's Name	OpenVox Communication Co., Ltd.	
ddress	Room 624, 6/F, Tsinghua Information Port, Qingqing Road, Lo	nghua Street,
	Longhua District, Shenzhen ,Guangdong ,China	
anufacturer	OpenVox Communication Co., Ltd.	
ddress	Room 201, Building I, Jinchangda, Building 00082, Shangwei J Zhangkengjing Community, Guanhu Street, Longhua District, S	
	Guangdong, China	
est specification	3	
andard	EN IEC 62368-1:2020+A11:2020	
est procedure		
on-standard test method		
est item description	IP-PBX	X
rade mark	OpenVox	
lodel and/or type reference.	UC120P	
ating(s)		
ote		

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TEST ITEM PARTICULARS:	
Classification of use by:	☑ Ordinary person
Classification of use by	□ Instructed person
	Skilled person
	Children likely to be present
Supply Connection:	AC Mains DC Mains
Suppry connection	External Circuit - Not directly connected to mains
	-
Supply % Tolerance:	□ +10%/-10%
	□ +20%/-15%
1 6 F	□ +25%/-15%
I L I L	⊠ None
Supply Connection – Type:	pluggable equipment type A -
	non-detachable supply cord
	appliance coupler
	direct plug-in
4	mating connector
5 7 5	pluggable equipment type B -
	non-detachable supply cord
Z Z Z Z	appliance coupler
	permanent connection
	 ☐ mating connector ☐ other:
Considered current rating of protective device as part	Installation location: D building; D equipment
of building or equipment installation	
Equipment mobility	☐ movable ☐ hand-held ⊠ transportable
Equipment mobility	stationary for building-in direct plug-in
T. T. T.	rack-mounting wall-mounted
Over voltage category (OVC):	
Class of equipment:	Class I Class II Class III
Access location:	 ☑ operator accessible ☑ restricted access location
X S X X	□ N/A
Pollution degree (PD):	$\square PD 1 \square PD 2 \square PD 3$
IP protection class	\square IPX0 \square IP
Power Systems:	$\Box TN \boxtimes TT \Box IT$
Altitude during operation (m)	
Altitude of test laboratory (m)	$\square 2000 \text{ m or less } \boxtimes 500 \text{ m}$

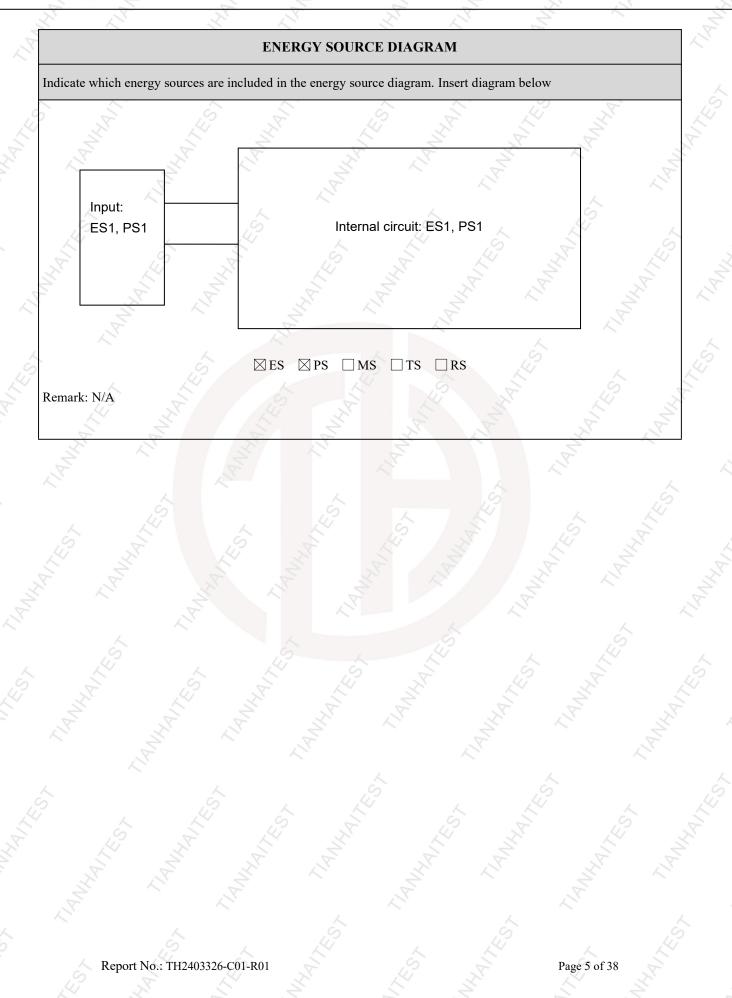
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POSSIBLE TEST CASE VERDICTS:	A A
Test case does not apply to the test object: N/A(Not applicable)
Test item does meet the requirement P(Pas	
Test item does not meet the requirement: F(Fai	
GENERAL PRODUCT INFORMATION:	
Product Description – 1. IP-PBX which is intended to be used for audio/vid	eo, information and communication technology
equipments.	
2. The IP-PBX supplied by an ES1/PS1 DC power so	burce during test.
Copy of Marking Plate:	
See on the product.	5 1 4 1
ENERGY SOURCE IDENTIFICATION AND CL	
(Note 1: Identify the following six (6) energy source for	
	uld be with respect to its ability to cause pain or injury on the
body or its ability to ignite a combustible material. Any	energy source can be declared Class 3 as a worse case
classification e.g. PS3, ES3.	K B
Electrically-caused injury (Clause 5):	n a an
(Note: Identify type of source, list sub-assembly or circu	it designation and corresponding energy source
classification)	ES1
Example: +5 V dc input Source of electrical energy	
	Corresponding classification (ES)
Input	ESI
All Internal circuits	ES1 ES1
Electrically-caused fire (Clause 6): (Note: List sub-assembly or circuit designation and correct	an and in a an analy source alogs if action)
Example: Battery pack (maximum 85 watts):	PS2
Source of power or PIS	Corresponding classification (PS)
Input	PS1
All Internal circuits	PS1
Injury caused by hazardous substances (Clause 7)	131
	zone or other chemical construction not addressed as part of
the component evaluation.)	Zone of other enemiear construction not addressed as part of
Example: Liquid in filled component	Glycol
Source of hazardous substances	Corresponding chemical
N/A (Built-in component, considered in end system)	N/A
Mechanically-caused injury (Clause 8)	1014
(Note: List moving part(s), fan, special installations, etc.	& corresponding MS classification based on Table 35.)
Example: Wall mount unit	MS2
Source of kinetic/mechanical energy	Corresponding classification (MS)
Plastic fan blades	N/A (Built-in component, considered in end system)
Thermal burn injury (Clause 9)	
0 0 0 0	genergy source classification based on type of part, location,
operating temperature and contact time in Table 38.)	
Example: Hand-held scanner – thermoplastic enclosure	TS1
Source of thermal energy	Corresponding classification (TS)
Accessible parts	N/A (Built-in component, considered in end system)
Radiation (Clause 10)	
(Note: List the types of radiation present in the product a	nd the corresponding energy source classification.)
Example: DVD – Class 1 Laser Product	RS1
Type of radiation	Corresponding classification (RS)
N/A	N/A
A A	AN AN

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Clause	Possible Hazard	, ⁶ 2	2	4
5.1	Electrically-caused injury	- Ai	~	
Body Part	Energy Source		Safeguards	
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary person	ES1: All Internal circuits ES1: Input	N/A	N/A	N/A
6.1	Electrically-caused fire	6		A.
Material part	Energy Source		Safeguards	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced
All combustible materials within equipment	PS1: Input/ All Internal circuits	N/A	N/A	N/A
7.1	Injury caused by hazardous su	ibstances		·
Body Part	Energy Source (hazardous material)	Safeguards		
(e.g., skilled)		Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
3.1	Mechanically-caused injury	4		
Body Part	Energy Source		Safeguards	
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary person	Plastic fan blades	N/A	N/A	N/A (
9.1	Thermal Burn		•	-
Body Part	Energy Source		Safeguards	_
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
0.1	Radiation			
Body Part (e.g., Ordinary)	Energy Source (Output from audio port)	Basic	Safeguards Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A

Supplementary Information:

See attached energy source diagram for additional details,
 "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault

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Clause	Requirement – Test	Result – Remark	Verdic
4	GENERAL REQUIREMENTS	L'É	Р
4.1.1	Acceptance of materials, components and subassemblies	The second second	Р
4.1.2	Use of components		P
4.1.3	Equipment design and construction	4 6	Р
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.4	Safeguard robustness	Build-in equipment, consider in the end system	Р
4.4.4.2	Steady force tests	N. N.	N/A
4.4.4.3	Drop tests	Ň	≥ P
4.4.4.4	Impact tests		N/A
4.4.5	Internal accessible safeguard enclosure and barrier tests	No such enclosure and barrier	N/A
4.4.4.6	Glass Impact tests	No glass used	N/A
4.4.7 📈	Thermoplastic material tests	L' X L	N/A
4.4.4.8	Air comprising a safeguard	A LA LA	N/A
1.4.4.9	Accessibility and safeguard effectiveness	A.	N/A
4.5	Explosion		N/A
4.6	Fixing of conductors	le l	P
4.6.1	Fix conductors not to defeat a safeguard		Р
4.6.2	10 N force test applied to	Conductors displacement cannot defeat a safeguard	P
4.7	Equipment for direct insertion into mains socket -outlets	No such apparatus	N/A
4.7.2	Mains plug part complies with the relevant standard.	Not directly connected to mains	N/A
4.7.3	Torque (Nm)	12	∽ N/A
4.8	Products containing coin/button cell batteries	1/2	N/A
4.8.2	Instructional safeguard		N/A
4.8.3	Battery Compartment Construction	A.	N/A
Z	Means to reduce the possibility of children removing the battery	AN A	N/A
4.8.4	Battery Compartment Mechanical Tests	(N/A
4.8.5	Battery Accessibility	5	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	11 ST	/N/A
5	ELECTRICALLY-CAUSED INJURY	E Z E	Р
5.2.1	Electrical energy source classifications	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits	A. A.	Р
5.2.2.2	Steady-state voltage and current	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits	is a second s	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
Juuse			
5.2.2.4	Single pulse limits	No single pulse introduced	N/A
5.2.2.5	Limits for repetitive pulses	No repetitive pulses introduced	N/A
5.2.2.6	Ringing signals	No means for connection to	N/A
.2.2.0	Kinging signals	telephone network and no ringing signal generated	N/A
5.2.2.7	Audio signals	1	N/A
5.3	Protection against electrical energy sources	All internal circuits considered ES1	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	MIL STATE	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	THE LE	N/A
5.3.2.2	Contact requirements	L ^N L	N/A
~	a) Test with test probe from Annex V	4	N/A
	b) Electric strength test potential (V)	L H	N/A
ć	c) Air gap (mm)	12 8 2	N/A
.3.2.4	Terminals for connecting stripped wire	L' L'	N/A
.4	Insulation materials and requirements		Р
.4.1.2	Properties of insulating material	J.	N/A
.4.1.3	Humidity conditioning		N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	P
5.4.1.5	Pollution degree	No Star	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	ANN AND AND	N/A
5.4.1.5.3	Thermal cycling	N. N. K.	N/A
5.4.1.6	Insulation in transformers with varying dimensions	R	N/A
5.4.1.7	Insulation in circuits generating starting pulses	5	∽ N/A
5.4.1.8	Determination of working voltage	K K K	N/A
5.4.1.9	Insulating surfaces	12 L	N/A
5.4.1.10	Thermoplastic parts on which conductive metallicparts are directly mounted	HAN.	N/A
5.4.1.10.2	Vicat softening temperature	L.	N/A
5.4.1.10.3	Ball pressure		N/A
.4.2	Clearances	L.	N/A
.4.2.2	Determining clearance using peak working voltage	L H	N/A
5.4.2.3	Determining clearance using required withstand voltage	Star 1	N/A
~	a) a.c. mains transient voltage	K K	
ZV	b) d.c. mains transient voltage	N N	
K	c) external circuit transient voltage		

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Clause	Requirement – Test	Result – Remark	Verdict
	5 5	5	R
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	The first	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	ANN	N/A
5.4.3	Creepage distances	The second se	N/A
5.4.3.1	General	~ ~	N/A
5.4.3.3	Material Group	L 22	
5.4.4	Solid insulation	4 5 5	N/A
5.4.4.2	Minimum distance through insulation		N/A
5.4.4.3	Insulation compound forming solid insulation	A A	N/A
5.4.4.4	Solid insulation in semiconductor devices	No. A	N/A
5.4.4.5	Cemented joints	L ^X A	N/A
5.4.4.6	Thin sheet material	4	N/A
5.4.4.6.1	General requirements	L L	N/A
5.4.4.6.2	Separable thin sheet material	P. R. L	N/A
L.	Number of layers (pcs)	K Z S	N/A
5.4.4.6.3	Non-separable thin sheet material	A A A	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	11 Martin	N/A
5.4.4.6.5	Mandrel test	5	N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz	8 4	N/A
5.4.5	Antenna terminal insulation	No such terminal	N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test	E.	N/A
	Insulation resistance (M)		
5.4.6	Insulation of internal wire as part of supplementary safeguard	(See appended table 5.4.4.2)	> N/A
5.4.7	Tests for semiconductor components and for cemented joints	IN SHI	N/A
5.4.8	Humidity conditioning	The The	N/A
N	Relative humidity (%)	W.	
	Temperature (°C)	R.	
	Duration (h)	~	
5.4.9	Electric strength test	L.	N/A
5.4.9.1	Test procedure for a solid insulation type test	S H	SN/A
5.4.9.2	Test procedure for routine tests	L' L' L	N/A
5.4.10	Protection against transient voltages between external circuit	No transient voltage from external circuit	N/A
5.4.10.1	Parts and circuits separated from external circuits	No. 1	N/A
5.4.10.2	Test methods	~ ~	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	Requirement – rest	Kesut – Kellark	Prefatet
.4.10.2.1	General	4 5 .	
.4.10.2.1	Impulse test		N/A
5.4.10.2.2	Steady-state test	X X X	N/A
5.4.11	Insulation between external circuits and earthed	No such external circuit	N/A
	circuitry		N/A
5.4.11.1	Exceptions to separation between external circuits and earth	25	N/A
5.4.11.2	Requirements	11 S 24	N/A
Z	Rated operating voltage Uop (V)		
5	Nominal voltage Upeak (V)	Z. Z.	
	Max increase due to variation Usp		
3	Max increase due to ageing Usa	12 ×	
~	Uop= Upeak + Usp + Usa	~	
5.5	Components as safeguards	x H	N/A
5.5.1	General	P. X V	N/A
5.5.2	Capacitors and RC units	S. 12 2	N/A
5.2.1	General requirement	Let It	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	L. L.	N/A
5.3	Transformers	de la companya de la comp	N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays	A S:	N/A
5.5.6	Resistors	A S	N/A
5.5.7	SPD's	L' L' L	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	R	N/A
5.5.7.2	Use of an SPD between mains and protective earth	A A	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable	27	N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors	N/N/	N/A
5.6.2.1	General requirements	11	N/A
5.6.2.2	Colour of insulation	Class III equipment	N/A
5.6.3	Requirement for protective earthing conductors	~ ~	N/A
	Protective earthing conductor size (mm ²)	L'	
.6.4	Requirement for protective bonding conductors	5	N/A
5.6.4.1	Protective bonding conductors	L' L' L	N/A
1	Protective bonding conductor size (mm ²)	K. K.	
6.4.2	Protective current rating (A)	· · 2	N/A
.6.4.3	Current limiting and overcurrent protective	L.Y.	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	Requirement - Test	Kesuit – Keinark	verdict
5.6.5	Terminals for protective conductors	4 5	N/A
5.6.5.1	Requirement		·
,.0.5.1	Conductor size (mm), nominal thread diameter	K K	N/A N/A
5.6.5.2	Corrosion		N/A N/A
5.6.6	Resistance of te protective system	L'	N/A N/A
6.6.6.1	Requirements	× 5	N/A N/A
5.6.6.2	Test Method Resistance	E L L	
5.6.7	Reliable earthing	States and the states of the s	N/A N/A
5.7	Prospective touch voltage, touch current and protective	conductor current	
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of prospective touch voltage	~ ~	N/A
5.7.2	Equipment set-up, supply connections and earth	L H	N/A N/A
4	connections System of interconnected equipment (separate connections/single connection)	Let In Let	
HAN I	Multiple connections to mains (one connection at a time/simultaneous connections)	A A A A A A A A A A A A A A A A A A A	
5.7.4	Earthed conductive accessible parts	214	N/A
5.7.5	Protective conductor current	5	N/A
	Supply Voltage (V)		
4	Measured current (mA	8 2	
Æ	Instructional Safeguard	3	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	L' AL L	N/A
5.7.6.1	Touch current from coaxial cables	11	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	5.	N/A
5.7.7	Summation of touch currents from external circuits	No such external circuits	N/A
NH NH	a) Equipment with earthed external circuits Measured current (mA)	ANN ANNA	N/A
L'	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)	NW NY	N/A
ĵ.	ELECTRICALLY- CAUSED FIRE		Р
5.2	Classification of power sources (PS) and potential ignit	ion sources (PIS)	Р
5.2.2	Power source circuit classifications		κ P
5.2.2.1	General	Le X	ΓР
5.2.2.2	Power measurement for worst-case load fault	(See appended table 6.2.2)	Р
5.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	Р
5.2.2.4	PS1	(See appended table 6.2.2)	Р
5.2.2.5	PS2		N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	5	19 A	L
5.2.2.6	PS3	1 9 S	N/A
5.2.3	Classification of potential ignition sources	Land Harris	Р
5.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	N/A
5.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	Р
5.3 🔨	Safeguards against fire under normal operating and abn	ormal operating conditions	Р
5.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300°C for unknown materials	See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	Р
6.3.1 (b)	Combustible materials outside fire enclosure	K.	N/A
5.4	Safeguards against fire under single fault conditions	N. A.	P
5.4.1	Safeguard Method	Method of Reduction of the likelihood of ignition under single fault conditions and control fire spread used	Р
5.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	14 14 14 14 14 14 14 14 14 14 14 14 14 1	N/A
5.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	A LI LA	P
5.4.3.1	General	K.	Р
5.4.3.2	Supplementary Safeguards	~	Р
	Special conditions if conductors on printed boards are opened or peeled	24	N/A
5.4.3.3	Single Fault Conditions	(See appended table B.3)	Р
L.	Special conditions for temperature limited by fuse	17 Lin	N/A
5.4.4	Control of fire spread in PS1 circuits	La Branch	N/A
5.4.5	Control of fire spread in PS2 circuits	A.	Р
5.4.5.2	Supplementary safeguards	PCB: V-0	Р
5.4.6	Control of fire spread in PS3 circuit	12	∑ N/A
5.4.7	Separation of combustible materials from a PIS	i i i	Р
5.4.7.1	General		P
5.4.7.2 5.4.7.3	Separation by distance	A A	N/A
5.4.7.3 5.4.8	Separation by a fire barrier Fire enclosures and fire barriers		N/A
5.4.8 5.4.8.1	Fire enclosures and fire barrier material properties	~	Р
5.4.8.2.1	Requirements for a fire barrier	No such barrier used.	P N/A
5.4.8.2.1 5.4.8.2.2	Requirements for a fire enclosure		N/A
5.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	Le Martin L	P N/A
5.4.8.3.1	Fire enclosure and fire barrier openings	No openings on the fire enclosure.	N/A
5.4.8.3.2	Fire barrier dimensions		N/A
5.4.8.3.3	Top Openings in Fire Enclosure: dimensions(mm)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
			A
	Needle Flame test	4 5 .	N/A
5.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a),	X H X	N/A
	b) and/or c) dimensions (mm)	M K K	IN/A
L'AS	Flammability tests for the bottom of a fire enclosure	NAN NA	N/A
5.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	× ~ ~ ~	N/A
5.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	Fire enclosure is made of V-0 material.	Р
5.5	Internal and external wiring		Р
5.5.1	Requirements	Z. Z.	Р
5.5.2	Cross-sectional area (mm2)	No. A	
5.5.3	Requirements for interconnection to building wiring	L. L	N/A
5.6	Safeguards against fire due to connection to additional equipment	L L	N/A
4	External port limited to PS2 or complies with Clause Q.1	77-00 12 120	N/A
	INJURY CAUSED BY HAZARDOUS SUBSTANC	ES	N/A
7.2	Reduction of exposure to hazardous substances		N/A
7.3	Ozone exposure	No ozone production	N/A
7.4	Use of personal safeguards (PPE)	5	N/A
	Personal safeguards and instructions:		
7.5	Use of instructional safeguards and instructions	Le Le	N/A
	Instructional safeguard (ISO 7010)	11/1	
7.6	Batteries		N/A
3	MECHANICALLY-CAUSED INJURY	St.	Р
3.1	General		<u> </u>
3.2	Mechanical energy source classifications	- 44 - L	<i>Р</i>
3.3	Safeguards against mechanical energy sources	117	N/A
3.4	Safeguards against parts with sharp edges and corners	MS1	N/A
3.4.1	Safeguards	L' L'	N/A
3.5	Safeguards against moving parts	X	N/A
3.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	~	N/A
3.5.2	Instructional Safeguard	L. L.	
3.5.4	Special categories of equipment comprising moving parts	22 H	N/A
3.5.4.1	Large data storage equipment	18 18	N/A
3.5.4.2	Equipment having electromechanical device for destruction of media	C L K	N/A
3.5.4.2.1	Safeguards and Safety Interlocks		N/A
3.5.4.2.2	Instructional safeguards against moving parts	6	N/A

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Instru 8.5.4.2.3 Disco 8.5.4.2.4 Probe 8.5.5 High I 8.5.5.1 Energ 8.5.5.2 High I 8.6 Stabil 8.6.1 Produ Instru Instru 8.6.2 Static 8.6.2 Static 8.6.2.2 Static 8.6.2.3 Down 8.6.3 Reloc Unit c 8.6.3 8.6.4 Glass 8.6.5 Horiz Positic 8.7 8.7.1 Moun mouni 8.7.2 8.7.1 Moun mouni 8.7.2 8.8 Handl 8.8.1 Classi 8.8.2 Applie 8.9.1 Classi 8.9.2 Applie 8.9.1 Classi 8.10.1 Gener 8.10.2 Marki	rement – Test etional Safeguard mection from the supply type and force (N) Pressure Lamps V Source Classification Pressure Lamp Explosion Test ty et classification etional Safeguard: stability stability stability test ed Force: ward Force Test minor stability test onfiguration during 10 tilt slide test on of feet or movable parts	No such equipment	 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
3.5.4.2.3 Disco 3.5.4.2.4 Probe 3.5.5 High 3.5.5 High 3.5.5.1 Energ 3.5.5.2 High 3.6 Stabil 3.6.1 Produ 3.6.2 Static 3.6.3 Reloc Unit c Static 3.6.4 Glass 3.6.5 Horiz Positic Static 3.7 Equip 3.7.1 Moun moun? Static 3.8 Handl 3.8.1 Classi </th <th>nnection from the supply type and force (N) Pressure Lamps y Source Classification Pressure Lamp Explosion Test ty et classification et cla</th> <th>No such equipment </th> <th>N/A N/A N/A N/A N/A N/A N/A N/A N/A</th>	nnection from the supply type and force (N) Pressure Lamps y Source Classification Pressure Lamp Explosion Test ty et classification et cla	No such equipment	N/A N/A N/A N/A N/A N/A N/A N/A N/A
3.5.4.2.3 Disco 3.5.4.2.4 Probe 3.5.5 High 3.5.5 High 3.5.5.1 Energ 3.5.5.2 High 3.6 Stabil 3.6.1 Produ 3.6.2 Static 3.6.3 Reloc Unit c Static 3.6.4 Glass 3.6.5 Horiz Positic Static 3.7 Equip 3.7.1 Moun moun? Static 3.8 Handl 3.8.1 Classi </td <td>nnection from the supply type and force (N) Pressure Lamps y Source Classification Pressure Lamp Explosion Test ty et classification et cla</td> <td>No such equipment</td> <td>N/A N/A N/A N/A N/A N/A N/A N/A N/A</td>	nnection from the supply type and force (N) Pressure Lamps y Source Classification Pressure Lamp Explosion Test ty et classification et cla	No such equipment	N/A N/A N/A N/A N/A N/A N/A N/A N/A
3.5.4.2.4 Probe 3.5.5 High I 3.5.5.1 Energ 3.5.5.2 High I 3.6 Stabil 3.6.1 Produ 3.6.2 Static 3.6.3 Reloc Unit c Static 3.6.4 Glass 3.6.5 Horiz Positic Positic 3.7 Equip 3.7.1 Moun mound Static 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applic 3.9 Whee 3.9.1 Classi 3.10 Carts, 3.10.1 Gener <td>type and force (N) Pressure Lamps V Source Classification Pressure Lamp Explosion Test ty et classification etional Safeguard: stability stability test ed Force: ward Force Test ttion stability test onfiguration during 10 tilt slide test ontal force test (Applied Force)</td> <td>No such equipment</td> <td>N/A N/A N/A N/A N/A N/A N/A N/A N/A</td>	type and force (N) Pressure Lamps V Source Classification Pressure Lamp Explosion Test ty et classification etional Safeguard: stability stability test ed Force: ward Force Test ttion stability test onfiguration during 10 tilt slide test ontal force test (Applied Force)	No such equipment	N/A N/A N/A N/A N/A N/A N/A N/A N/A
3.5.5 High I 3.5.5.1 Energ 3.5.5.2 High I 3.6 Stabil 3.6.1 Produ 3.6.2 Static 3.6.3 Down 3.6.4 Glass 3.6.5 Horiz 9.6.4 Glass 3.6.5 Horiz 9.3.6.7 Equip 3.7 Equip 3.7.1 Moun mouni 3.7.2 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.9 Whee 3.9.1 Classi 3.9.2 Applic 3.10.1 Gener 3.10.2 Marki	Pressure Lamps y Source Classification Pressure Lamp Explosion Test ty et classification etional Safeguard: stability stability stability test ed Force: ward Force Test ation stability test configuration during 10 tilt slide test ontal force test (Applied Force)		N/A N/A N/A N/A N/A N/A N/A N/A
B.5.5.1 Energ B.5.5.2 High I B.6 Stabil B.6 Stabil B.6.1 Produ Instru Instru B.6.2 Static B.6.3 Down B.6.4 Glass B.6.5 Horiz Positic Positic B.7 Equip B.7.1 Moun moun B.7.2 B.8 Handl B.8.1 Classi B.8.2 Applic B.9.1 Classi B.9.2 Applic B.9.2 Applic B.10.1 Gener	y Source Classification Pressure Lamp Explosion Test ty et classification etional Safeguard: stability stability stability test ed Force: ward Force Test ttion stability test onfiguration during 10 tilt slide test ontal force test (Applied Force)		N/A N/A N/A N/A N/A N/A N/A N/A
3.5.5.2 High I 3.6 Stabil 3.6.1 Produ Instru Instru 3.6.2 Static 3.6.3 Down 3.6.3 Reloc Unit c 3.6.3 3.6.4 Glass 3.6.5 Horiz Positic 3.7.1 Moun moum 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applic 3.9 Whee 3.9.1 Classi 3.9.2 Applic 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	Pressure Lamp Explosion Test ty et classification etional Safeguard: stability stability test ed Force: ward Force Test ation stability test onfiguration during 10 tilt slide test ontal force test (Applied Force)		N/A N/A N/A N/A N/A N/A N/A
3.6 Stabil 3.6.1 Produ Instru Instru 3.6.2 Static Applie Static 3.6.3 Reloc Unit c Static 3.6.3 Reloc Unit c Static 3.6.4 Glass 3.6.5 Horiz Positie Positie 3.7 Equip 3.7.1 Moun moun Static 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applie 3.9 Whee 3.9.1 Classi 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	ty ty tt classification ttional Safeguard: stability stability stability test ed Force: ward Force Test ttion stability test onfiguration during 10 tilt slide test ontal force test (Applied Force)		N/A N/A N/A N/A N/A N/A N/A
Instru 3.6.2 Static 3.6.2.2 Static Applie Applie 3.6.2.3 Down 3.6.3 Reloc Unit c Static 3.6.3 Reloc B.6.4 Glass 3.6.5 Horiz Positie Positie 3.7 Equip 3.7.1 Moun mount Static 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applie 3.9 Whee 3.9.1 Classi 3.10 Carts, 3.10.2 Marki	stability stability stability test ed Force: ward Force Test ward Force Test onfiguration during 10 tilt slide test ontal force test (Applied Force)		N/A N/A N/A N/A N/A
3.6.2 Static 3.6.2 Static Applid Applid 3.6.2.3 Down 3.6.3 Reloc Unit c Unit c 3.6.3 Reloc 8.6.4 Glass 3.6.5 Horizo 9.6.4 Glass 3.7 Equip 3.7.1 Moun mound 3.7.2 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applid 3.9 Whee 3.9.1 Classi 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	stability stability test ed Force: ward Force Test ation stability test onfiguration during 10 tilt slide test ontal force test (Applied Force)	A A A A A A A A A A A A A A A A A A A	 N/A N/A N/A N/A
B.6.2.2 Static Applia Applia B.6.2.3 Down B.6.3 Reloc Unit c Unit c B.6.3 Reloc Unit c Positia B.6.4 Glass B.6.5 Horiza Positia Positia B.7 Equip B.7.1 Moun mouni B.7.2 B.7.2 Direct B.8.8 Handl B.8.1 Classi B.8.2 Applia B.9.1 Classi B.9.2 Applia B.10.1 Gener B.10.2 Marki	stability test d Force: ward Force Test ation stability test configuration during 10 tilt slide test contal force test (Applied Force)		N/A N/A N/A N/A
Applie 3.6.2.3 Down 3.6.3 Reloc Unit c Unit c 3.6.3 Reloc Unit c Unit c 3.6.4 Glass 3.6.5 Horiza Positia Positia 3.7 Equip 3.7.1 Moun mount 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applie 3.9 Whee 3.9.1 Classi 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	ed Force: ward Force Test tion stability test onfiguration during 10 tilt slide test ontal force test (Applied Force)		 N/A N/A N/A
3.6.2.3 Down 3.6.3 Reloc Unit c Unit c 3.6.3 Reloc Unit c Unit c 3.6.4 Glass 3.6.5 Horizon Position Position 3.7 Equip 3.7.1 Moun mount S.7.2 B.8.8 Handl 3.8.1 Classi 3.8.2 Applic 3.9 Whee 3.9.1 Classi 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	ward Force Test ttion stability test onfiguration during 10 tilt slide test ontal force test (Applied Force)	A A A A A A A A A A A A A A A A A A A	N/A N/A N/A
8.6.3 Reloc Unit c Unit c 8.6.4 Glass 8.6.5 Horiza Position Position 8.7 Equip 8.7 Equip 8.7 Direct 8.7 Direct 8.7 Equip 8.7 Equip 8.7 Equip 8.7 Equip 8.7.1 Mount mount 3.7.2 3.7.2 Direct 8.8 Handl 8.8.1 Classi 8.8.2 Applie 8.9.1 Classi 8.9.2 Applie 8.10 Carts, 8.10.1 Gener 8.10.2 Marki	ation stability test Configuration during 10 tilt Solide test Contal force test (Applied Force)		N/A N/A
Unit c 3.6.4 Glass 3.6.5 Horiza Position 3.7 Equipa 3.7 Equipa 3.7.1 Mouna mouna 3.7.2 Direct 3.8 Handla 3.8.1 Classia 3.8.2 Applia 3.9 Whee 3.9.1 Classia 3.9.2 Applia 3.10 Carts, 3.10.1 General 3.10.2 Markia	onfiguration during 10 tilt slide test ontal force test (Applied Force)		 N/A
3.6.4 Glass 3.6.5 Horiza 9.6.5 Horiza 8.6.5 Horiza 9.6.5 Horiza 9.7 Equip 3.7 Equip 3.7 Direct 3.7.1 Moun moum Moun 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applie 3.9 Whee 3.9.1 Classi 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	slide test ontal force test (Applied Force)	A A A A A A A A A A A A A A A A A A A	
3.6.5 Horiza Position Position 3.7 Equip 3.7.1 Mounimound 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applia 3.9 Whee 3.9.1 Classi 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	ontal force test (Applied Force)		
Position 3.7 Equip 3.7.1 Moun mount 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applie 3.9 Whee 3.9.1 Classi 3.9.2 Applie 3.10 Carts, 3.10.1 Gener 3.10.2 Marki		J.S.	N/A
3.7 Equip 3.7.1 Moun mound mound 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applie 3.9 Whee 3.9.1 Classi 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	on of feet or movable parts		
3.7.1 Moun mound mound 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applid 3.9 Whee 3.9.1 Classi 3.9.2 Applid 3.10 Carts, 3.10.1 Gener 3.10.2 Marki			
mound 3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applie 3.9 Whee 3.9.1 Classi 3.9.2 Applie 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	nent mounted to wall or ceiling	1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 -	N/A
3.7.2 Direct 3.8 Handl 3.8.1 Classi 3.8.2 Applie 3.9 Whee 3.9.1 Classi 3.9.2 Applie 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	ing Means (Length of screws (mm) and ing surface)	· · · · · · · · · · · · · · · · · · ·	N/A
3.8.1 Classi 3.8.2 Applie 3.9 Whee 3.9.1 Classi 3.9.2 Applie 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	ion and applied force		N/A
Applie 3.8.2 Applie 3.9 Whee 3.9.1 Classi 3.9.2 Applie 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	es strength	L' L' L	N/A
Annotation Annotation 3.9 Whee 3.9.1 Classi 3.9.2 Applie 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	fication	T.	N/A
3.9.1 Classi 3.9.2 Applie 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	ed Force	~	N/A
8.9.2 Applia 3.10 Carts, 3.10.1 Gener 3.10.2 Marki	s or casters attachment requirements	12	N/A
3.10 Carts, 3.10.1 Gener 3.10.2 Marki	fication	12 22 12	N/A
3.10.1 Gener 3.10.2 Marki	ed force		
3.10.2 Marki	stands and similar carriers	A A	N/A
	al 2 2	NN X	N/A
Instru	ng and instructions		N/A
	ctional Safeguard	~	
3.10.3 Cart, s	tand or carrier loading test and compliance		N/A
~ -	ed force	5	
×1	tand or carrier impact test	H K A	/ N/A
3.10.5 SMech	nical stability	K K	N/A
Appli	d horizontal force (N)	No No	
3.10.6 Thern			N/A

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Clause	Requirement – Test	Result – Remark	Verdict
ciduse	requirement rest	Result Remark	Verdiet
8.11.1	General	LA S S	N/A
8.11.2	Product Classification	S & Z	N/A
8.11.3	Mechanical strength test, variable N	L L L	N/A N/A
8.11.4	Mechanical strength test 250N, including end stops		N/A
8.12	Telescoping or rod antennas	~~~	N/A
~	Button/Ball diameter (mm)	A	
9	THERMAL BURN INJURY	2 × ×	Р
9.2	Thermal energy source classifications	Le X	P
9.3	Safeguard against thermal energy sources		P
9.4	Requirements for safeguards		P
9.4.1	Equipment safeguard	1 A A	P
9.4.2	Instructional safeguard		N/A
10	RADIATION	L'	N/A N/A
10.2	Radiation energy source classification	S F	N/A
10.2.1	General classification	K X K	N/A
10.3	Protection against laser radiation	The The Star	N/A
-71	Laser radiation that exists equipment:		
X	Normal, abnormal, single-fault:		N/A
	Instructional safeguard:	5	
	Tool:		
10.4	Protection against visible, infrared, and UV radiation	AN LI	N/A
10.4.1	General	A A A	N/A
10.4.1.a) 🔨	RS3 for Ordinary and instructed persons	A.	N/A
10.4.1.b)	RS3 accessible to a skilled person		N/A
	Personal safeguard (PPE) instructional safeguard	Le L	
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:	X S X	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:		N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque	AN AN	N/A
10.4.1.f)	UV attenuation	NY NY	N/A
10.4.1.g)	Materials resistant to degradation UV	~	N/A
10.4.1.h)	Enclosure containment of optical radiation:	L'	N/A
10.4.1.i)	Exempt Group under normal operating conditions	F2	N/A
10.4.2	Instructional safeguard	14 14	N/A
10.5	Protection against x-radiation		N/A
10.5.1	X- radiation energy source that exists equipment:	N. S.	N/A
N	Normal, abnormal, single fault conditions:	~	N/A

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	5	5	R
	Equipment safeguards:	19 N	N/A
X	Instructional safeguard for skilled person:	X Z Z	N/A
0.5.3	Most unfavourable supply voltage to give	The start of the	
N	maximum radiation	No. Company and the second sec	
	Abnormal and single-fault condition		N/A
4	Maximum radiation (pA/kg)	4	N/A
0.6	Protection against acoustic energy sources	S & L	N/A
0.6.1	General	22 X	N/A
0.6.2	Classification	ALL NI	N/A
	Acoustic output, dB(A)		N/A
	Output voltage, unweighted r.m.s	N.	N/A
0.6.4	Protection of persons		N/A
	Instructional safeguards	S.	N/A
	Equipment safeguard prevent ordinary person to RS2	S I S	~ -
E.	Means to actively inform user of increase sound pressure	L' A L'	
Z	Equipment safeguard prevent ordinary person to RS2		AN AN
0.6.5	Requirements for listening devices (headphones, earphones, etc.)	LI HA	N/A
0.6.5.1	Corded passive listening devices with analog input	5	N/A
5	Input voltage with 94 dB(A) LAeq Acoustic pressure output	ES.	
0.6.5.2	Corded listening devices with digital input	ALL IN	N/A
	Maximum dB(A)		
0.6.5.3	Cordless listening device	K	N/A
	Maximum dB(A)		
3	NORMAL OPERATING CONDITION TESTS, AF CONDITION TESTS AND SINGLE FAULT CON		Э Р
3.2	Normal Operating Conditions	K 22 K	Р
3.2.1	General requirements	(See summary of testing & appended test tables)	Р
L.Y.	Audio Amplifiers and equipment with audio amplifiers	ANN NO N	N/A
3.2.3	Supply voltage and tolerances	(See appended table B.2.5)	Р
3.2.5	Input test	(See appended table B.2.5)	Р
3.3	Simulated abnormal operating conditions	K K	A P
3.3.1	General requirements	A A	С Р
3.3.2	Covering of ventilation openings	12 Nr 12	N/A
3.3.3	D.C. mains polarity test	K K J	N/A
3.3.4	Setting of voltage selector	No such voltage selector.	N/A
3.3.5	Maximum load at output terminals	No such terminals	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	· S · S	5	J.
3.3.6	Reverse battery polarity	No battery replaced by ordinary person	N/A
3.3.7	Abnormal operating conditions as specified in Clause E.2.	ANNA MAN	N/A
3.3.8	Safeguards functional during and after abnormal operating conditions	MAN N	N/A
3.4	Simulated single fault conditions	4	Р
3.4.2	Temperature controlling device open or short- circuited	57 817	N/A
3.4.3	Motor tests		Р
3.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	(See appended table B.4)	P
3.4.4	Short circuit of functional insulation	N. Company	S P
3.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
3.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р
3.4.4.3	Short circuit of functional insulation on coated printed boards	Le the L	N/A
3.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	K LI M	N/A
3.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	Р
3.4.7	Continuous operation of components		N/A
3.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	Le L	P
3.4.9	Battery charging under single fault conditions	4	N/A
	UV RADIATION	11/1	N/A
E.1	Protection of materials in equipment from UV radiation	No UV radiation within the EUT.	N/A
C.1.2	Requirements		N/A
C.1.3	Test method	5	N/A
C.2	UV light conditioning test	LI L L	N/A
C.2.1	Test apparatus	12 FS	N/A
C.2.2	Mounting of test samples	1 Contraction of the second se	N/A
C.2.3	Carbon-arc light-exposure apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus	N.	N/A
)	TEST GENERATORS		N/A
D.1	Impulse test generators	Ś	N/A
0.2	Antenna interface test generator	K K	∕_N/A
0.3	Electronic pulse generator	2 8	N/A
E 🗸	TEST CONDITIONS FOR EQUIPMENT CONTA	INING AUDIO AMPLIFIERS	N/A
E.1 X	Audio amplifier normal operating conditions	x x x	N/A
L'	Audio signal voltage (V)		1 1/ 2 1

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Clause	Requirement – Test	Result – Remark	Verdict
	5	5	R
E.2	Audio amplifier abnormal operating conditions	4 2 5	N/A
A A	EQUIPMENT MARKINGS, INSTRUCTIONS, AN SAFEGUARDS	D INSTRUCTIONAL	Р
F.1	General requirements	R Z K	Р
	Instructions – Language	English version checked	
5.2	Letter symbols and graphical symbols	4	Р
F.2.1 9	Letter symbols according to IEC60027-1	S & L	Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	Le Martin	P
F.3	Equipment markings	Z. Z.	Р
5.3.1	Equipment marking locations	Located on the external enclosure surface	Р
F.3.2 🔍	Equipment identification markings		Р
5.3.2.1	Manufacturer identification	See copy of marking plate	
F.3.2.2	Model identification	See copy of marking plate	
7.3.3	Equipment rating markings	L' L' L'	Р
5.3.3.1	Equipment with direct connection to mains	K. K.	N/A
5.3.3.2	Equipment without direct connection to mains		Р
7.3.3.3	Nature of supply voltage	DC	
7.3.3.4	Rated voltage	DC12V	
F.3.3.5	Rated frequency		
F.3.3.6	Rated current or rated power	1A 2	
F.3.3.7	Equipment with multiple supply connections	No multiple supply connection.	N/A
3.4	Voltage setting device	No such device.	N/A
F.3.5 <	Terminals and operating devices	F.	N/A
5.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlet.	N/A
F.3.5.2	Switch position identification marking	Not such switch.	/N/A
F.3.5.3	Replacement fuse identification and rating markings	No fuse used	N/A
F.3.5.4	Replacement battery identification marking	K K	N/A
5.3.5.5	Terminal marking location	"No	N/A
5.3.6	Equipment markings related to equipment classification	23	N/A
F.3.6.1	Class I Equipment	Ś	N/A
5.3.6.1.1	Protective earthing conductor terminal	K K	N/A
5.3.6.1.2	Neutral conductor terminal	Le Le	N/A
5.3.6.1.3	Protective bonding conductor terminals	1 VE	N/A
F.3.6.2	Class II equipment (IEC60417-5172)	K K K	N/A
5.3.6.2.1	Class II equipment with or without functional earth	X	N/A
5.3.6.2.2	Class II equipment with functional earth terminal marking	~ ~ ~	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	5 5	5	Å
F.3.7	Equipment IP rating marking	4 2 5	
F.3.8	External power supply output marking	X / X	N/A
F.3.9	Durability, legibility and permanence of marking	The second second	Р
F.3.10	Test for permanence of markings	K K	P
F.4	Instructions		Р
S	a) Equipment for use in locations where children not likely to be present - marking	19. L 2	N/A
1	b) Instructions given for installation or initial use	Le Company	Р
X	c) Equipment intended to be fastened in place	Li M	N/A
	d) Equipment intended for use only in restricted access area	Not used in restricted access area.	N/A
<i>Z</i>	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	12 13	N/A
	f) Protective earthing employed as safeguard		/ N/A
4	g) Protective earthing conductor current exceeding ES 2 limits	Le Martin	N/A
Y	h) Symbols used on equipment	K K K	N/A
ANY.	i) Permanently connected equipment not provided with all-pole mains switch	The second second	N/A
	j) Replaceable components or modules providing safeguard function	5	N/A
F.5	Instructional safeguards		N/A
SH	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	ALL	N/A
G	COMPONENTS		Р
G.1	Switches	11	N/A
G.1.1	General requirements	10	/N/A
G.1.2	Ratings, endurance, spacing, maximum load	L' L L	N/A
G.2	Relays	K L K	N/A
G.2.1	General requirements	1 AN	N/A
G.2.2	Overload test	No La	N/A
G.2.3	Relay controlling connectors supply power	N.	N/A
G.2.4	Mains relay, modified as stated in G.2		N/A
J. 3	Protection Devices	Ś	N/A
G.3.1	Thermal cut-offs	No thermal cut-off used.	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	Li Li	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	The state of the s	N/A
G.3.1.2	hermal cut-off connections maintained and secure		N/A
G.3.2	Thermal links	S	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
			A
G.3.2.1a)	Thermal links separately tested with IEC 60691	4 5 5	N/A
<u>()))))))</u>	Thermal links tested as part of the equipment		N/A
2	Aging hours (H)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IN/A
- X	Single Fault Condition		
	Test Voltage (V) and Insulation Resistance		
G.3.3 人	PTC Thermistors	A	 N/A
G.3.4	Overcurrent protection devices	E K K	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	The second secon	N/A
G.3.5.2	Single faults conditions	T.	N/A
G.4 🔍	Connectors		N/A
G.4.1	Spacings	Not directly connected to mains	N/A
G.4.2	Mains connector configuration		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	AN AN AN	N/A
G.5	Wound Components	N LN LN	N/A
G.5.1	Wire insulation in wound components	F.	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	<u>~</u>	N/A
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components	3	N/A
G.5.2.1	General test requirements	3	N/A
G.5.2.2	Heat run test		N/A
K	Time (s)	F.	
	Temperature (°C)		
G.5.2.3	Wound Components supplied by mains	12	N/A
G.5.3	Transformers		N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1)		N/A
Y	Position		
	Method of protection	N.	
G.5.3.2	Insulation	~	N/A
	Protection from displacement of windings	Ś	
G.5.3.3	Overload test	K K	N/A
G.5.3.3.1	Test conditions	Le X	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	1 h	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	K K K	N/A
G.5.4	Motors	N. N.	N/A
G.5.4.1	General requirements		N/A

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Clause	Requirement – Test	Result – Remark	Verdict
			A.
	Position	4 5 5	
G.5.4.2	Test conditions	X X X	N/A
G.5.4.3	Running overload test	LA K K	N/A N/A
G.5.4.4	Locked-rotor overload test		N/A
	Test duration (days)	~	
5.5.4.5	Running overload test for d.c. motors in secondary circuits	is i l'	N/A
G.5.4.5.2	Tested in the unit	No. A	N/A
X	Electric strength test (V)		
6.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	Mr. L.	N/A
	Electric strength test (V)	R K	
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	E.	N/A
G.5.4.6.2	Tested in the unit		N/A
47	Maximum Temperature	(see appended table B.4)	N/A
2	Electric strength test (V)	K K	N/A
6.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	A Maria	N/A
	Electric strength test (V)		N/A
G.5.4.8	Three-phase motors	L'	N/A
G.5.4.9	Series motors		N/A
S.	Operating voltage		
G.6	Wire Insulation	i K K	N/A
G.6.1	General	X X X	N/A
G.6.2	Solvent-based enamel wiring insulation		N/A
G.7	Mains supply cords	5	N/A
G.7.1	General requirements	Not directly connected to mains	N/A
	Туре	12 12 12 12 12 12 12 12 12 12 12 12 12 1	
L	Rated current (A)	11 M	
A.	Cross-sectional area (mm2), (AWG)		
3.7.2	Compliance and test method	N. S.	N/A
5.7.3	Cord anchorages and strain relief for non- detachable power supply cords	~ ~	N/A
6.7.3.2	Cord strain relief	L'AL	N/A
6.7.3.2.1	Requirements	S X	N/A
4	Strain relief test force (N)		
G.7.3.2.2	Strain relief mechanism failure	K K	N/A
5.7.3.2.3	Cord sheath or jacket position, distance (mm)	NE	
5.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry		N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	, <u>6</u> , <u>6</u>	S A	L
G.7.5	Non-detachable cord bend protection	L 22 S	N/A
G.7.5.1	Requirements	X X X	N/A
G.7.5.2	Mass (g)	F I I	
N'	Diameter (m)	The second se	
	Temperature (°C)		
G.7.6	Supply wiring space	A 62	N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Test with 8 mm strand	L' L	N/A
G.8	Varistors	F. F.	N/A
G.8.1	General requirements		N/A
G.8.2	Safeguard against shock	1 L	N/A
G.8.3	Safeguard against fire	Å	N/A
G.8.3.2	Varistor overload test	L H	× N/A
G.8.3.3	Temporary overvoltage	19 E	N/A
G.9 📈	Integrated Circuit (IC) Current Limiters	S 2 5	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	A LA LA	N/A
G.9.1 b)	Limiters do not have manual operator or reset	A.	N/A
G.9.1 c)	Supply source does not exceed 250 VA		
G.9.1 d)	IC limiter output current (max. 5A)	9	
G.9.1 e)	Manufacturers' defined drift	E L	
G.9.2	Test Program 1	A H	N/A
G.9.3	Test Program 2	R R	N/A
G.9.4	Test Program 3	X X X	N/A
G.10	Resistors	L ^N	N/A
G.10.1	General requirements		/ N/A
G.10.2	Resistor test	Let h	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	ALL ALL	N/A
G.10.3.1	General requirements	Z Z	N/A
G.10.3.2	Voltage surge test	X	N/A
G.10.3.3	Impulse test		N/A
G.11	Capacitor and RC units	,S	N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units	LA X	N/A
G.11.3	Rules for selecting capacitors	A B B	N/A
G.12 🔊	Optocouplers		N/A
KIN	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)		N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	5	5	J.S.
	Type test voltage Vini	14 19 s	<u>~`</u>
X	Routine test voltage, Vini,b	<u>x</u> <u>x</u> <u>x</u>	
G.13	Printed boards	11 12 11	Р
G.13.1	General requirements		P
G.13.2	Uncoated printed boards	~	P
G.13.3 🔨	Coated printed boards	4 5	N/A
G.13.4	Insulation between conductors on the same inner surface	19 19 14 19 19 19 19 19 19 19 19 19 19 19 19 19	N/A
Y.T.	Compliance with cemented joint requirements (Specify construction)	ANN ANN	
G.13.5	Insulation between conductors on different surfaces	NH I	N/A
- X	Distance through insulation		N/A
	Number of insulation layers (pcs)	3	
G.13.6	Tests on coated printed boards	11 S	N/A
G.13.6.1	Sample preparation and preliminary inspection	L' L' L	N/A
G.13.6.2a)	Thermal conditioning	Ly Ly	N/A
G.13.6.2b)	Electric strength test	1	N/A
G.13.6.2c)	Abrasion resistance test	74	N/A
G.14	Coating on components terminals	Sy	N/A
G.14.1	Requirements		N/A
G.15	Liquid filled components	44, F50	N/A
G.15.1	General requirements	117	N/A
G.15.2	Requirements		N/A
G.15.3 <	Compliance and test methods	K	N/A
G.15.3.1	Hydrostatic pressure test	~ ~	N/A
G.15.3.2	Creep resistance test	12	N/A
G.15.3.3	Tubing and fittings compatibility test	1/1 //	N/A
G.15.3.4	Vibration test		N/A
G.15.3.5	Thermal cycling test	A A	N/A
G.15.3.6	Force test	No. C.	N/A
G.15.4	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	K	N/A
	Humidity treatment in accordance with sc5.4.8–120 hours	~ L ²	N/A
L.	b) Impulse test using circuit 2 with Uc = to transient voltage	State I	N/A
	C1) Application of ac voltage at 110% of rated voltage for 2.5 minutes	K K K	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	5	19 4	X
, Z	D1) 10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	MILLANT STATES	N/A
Z	D2) Capacitance	S Z Z	
	D3) Resistance		
H	CRITERIA FOR TELEPHONE RINGING SIGNA	LS A	N/A
H.1 6	General	5 , 4	N/A
H.2	Method A	S 5	N/A
H.3	Method B		N/A
H.3.1	Ringing signal	Z Z	N/A
H.3.1.1	Frequency (Hz)	N.	
H.3.1.2	Voltage (V)	X X	
H.3.1.3	Cadence; time (s) and voltage (V)	5	
H.3.1.4	Single fault current (mA)	L H	
H.3.2	Tripping device and monitoring voltage	Le S L	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	A LA IN	N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)		
J	INSULATED WINDING WIRES FOR USE WITH INSULATION	IOUT INTERLEAVED	N/A
K	General requirements	4 5	N/A
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	No safety interlocks inside the EUT	N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode	E.	∽ N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
L'	Compliance	K K	N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method		N/A
K.7	Interlock circuit isolation	19	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)	1917 F	N/A
K.7.2	Overload test, Current (A)	1 2 2	N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test	No.	N/A
L.S	DISCONNECT DEVICES		

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Clause	Requirement – Test	Result – Remark	Verdict
	<u>5</u>	5	R
.2	Permanently connected equipment	1 19	N/A
	Parts that remain energized	X X X	N/A
.4	Single phase equipment	The state of the	N/A
	Three-phase equipment		N/A
	Switches as disconnect devices	~~~~~	N/A
7 🔨	Plugs as disconnect devices	× 5	N/A
	Multiple power sources	Re E	N/A
M	EQUIPMENT CONTAINING BATTERIES AND CIRCUITS	THEIR PROTECTION	Р
A .1	General requirements	L'AL	Р
Л.2	Safety of batteries and their cells	X	R P
A.2.1	Requirements	L L	Р
1.2.2	Compliance and test method (identify method)	19	Р
<i>I</i> .3	Protection circuits		Р
A.3.1	Requirements	H X L	Р
1.3.2	Tests	R R R	P
TX	- Overcharging of a rechargeable battery		Р
A.	- Unintentional charging of a non-rechargeable battery	A AN	Р
	- Reverse charging of a rechargeable battery		P
K	- Excessive discharging rate for any battery	2 2	Р
А.З.З	Compliance	E H	Р
М.4	Additional safeguards for equipment containing secondary lithium battery	Land Hard A	N/A
М.4.1	General	N.	N/A
Л.4.2	Charging safeguards		N/A
Л.4.2.1	Charging operating limits	- P	N/A
Л.4.2.2а)	Charging voltage, current and temperature	SY VY	
Л.4.2.2 b)	Single faults in charging circuitry		
Л.4.3	Fire Enclosure	14 M	N/A
А.4.4	Endurance of equipment containing a secondary lithium battery	N. N	N/A
Л.4.4.2	Preparation	~	N/A
Л.4.4.3	Drop and charge/discharge function tests	S	N/A
	Drop //		N/A
	Charge	Le Le	N/A
Å	Discharge	1/2 VE	N/A
Л.4.4.4	Charge-discharge cycle test	K Z' K	N/A
Л.4.4.5	Result of charge-discharge cycle test	The second secon	N/A
Л.5	Risk of burn due to short circuit during carrying		N/A

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Clause	Requirement – Test	Result – Remark	Verdict
liduse		Result Remark	Perdict
И.5.1	Requirement	4 5	N/A
A.5.2	Compliance and Test Method (Test of P.2.3)		
<u>1.5.2</u> <u>1.6</u>	Prevention of short circuits and protection from	N X X	N/A
1.0	other effects of electric current		N/A
Л.6.1	Short circuits	11	N/A
4.6.1.1	General requirements	4 6	N/A
1.6.1.2	Test method to simulate an internal fault	2 L L	N/A
М.6.1.3	Compliance (Specify M.6.1.2 or alternative method)	Le M	N/A
4.6.2	Leakage current (mA)	K.	N/A
4.7	Risk of explosion from lead acid and NiCd batteries	No. 1	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method	L L'	N/A
A.8	Protection against internal ignition from external spark sources of lead acid batteries	H K H	N/A
1.8.1	General requirements	K K K	N/A
1.8.2	Test method	in the	N/A
А.8.2.1	General requirements		
И.8.2.2	Estimation of hypothetical volume Vz (m/s)	5	
M.8.2.3	Correction factors		
Л.8.2.4	Calculation of distance d (mm)	× 2	
Л.9	Preventing electrolyte spillage	AT I I	N/A
1.9.1	Protection from electrolyte spillage		N/A
1.9.2	Tray for preventing electrolyte spillage	N. S.	N/A
м.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection,data review; or abnormal testing)	HS I H	N/A
1 2	ELECTROCHEMICAL POTENTIALS	A S A	N/A
Z	Metal(s) used		
DAN	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	NH LI	N/A
	Figures O.1 to O.20 of this Annex applied	PD2	
	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A
2.1	General requirements	L H	N/A
.2.2	Safeguards against entry of foreign object	S. X	N/A
,	Location and Dimensions (mm)	S X X	
2.2.3	Safeguard against the consequences of entry of foreign object		N/A
2.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment	~	N/A

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lause	Requirement – Test	Result – Remark	Verdict
			A.
	Transportable equipment with metalized plastic	4 5 .	N/A
5	parts	X L L	IN/A
2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure(identification of supplementary safeguard)	MAL NICH	N/A
2.3	Safeguards against spillage of internal liquids	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N/A
P.3.1 🔨	General requirements	4 5	N/A
.3.2	Determination of spillage consequences	S. L. K	N/A
9.3.3	Spillage safeguards		N/A
2.3.4	Safeguards effectiveness		N/A
2.4	Metallized coatings and adhesive securing parts	L'A	N/A
P.4.2 a)	Conditioning testing	E. S.	N/A
, , ,	Tc (°C)		
	Tr (°C)	192	
	Ta (°C)		
.4.2 b)	Abrasion testing	H F H	N/A
.4.2 c)	Mechanical strength testing	R R R	N/A
	CIRCUITS INTENDED FOR INTERCONNECTIO	N WITH BUILDING WIRING	N/A
0.1	Limited power sources		N/A
).1.1 a)	Inherently limited output	<u>é</u>	N/A
).1.1 b)	Impedance limited output	L'A	N/A
S	Regulating network limited output under normal operating and simulated single fault condition	And Ly	N/A
Q.1.1 c)	Overcurrent protective device limited output	A A i	N/A
Q.1.1 d) 🔨	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method	L. L.	N/A
Q.2	Test for external circuits – paired conductor cable	5	S N/A
4	Maximum output current (A)	K K K	
~	Current limiting method	The state of the s	
	LIMITED SHORT CIRCUIT TEST		N/A
L.18	General requirements	N N	N/A
R.2	Determination of the overcurrent protective device and circuit	I. L.	N/A
1.3	Test method Supply voltage (V) and short-circuit current (A))	19	N/A
	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	HINNELL HINNELL	N/A
Z	Samples, material	A A A A A A A A A A A A A A A A A A A	
N	Wall thickness (mm) Conditioning (°C)	~	

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Clause	Requirement – Test	Result – Remark	Verdict
	Requirement – Test	Result – Remark	veruiet
		44 6	<u> </u>
	Test flame according to IEC 60695-11-5 with conditions as set out	The second secon	N/A
2	- Material not consumed completely	N X X	N/A
N	- Material extinguishes within 30s	No.	N/A
	- No burning of layer or wrapping tissue	2	N/A
5.2	Flammability test for fire enclosure and fire barrier integrity	10	N/A
H	Samples, material	22 22 E	
P.	Wall thickness (mm)	Le L	
Ś	Conditioning (°C)	F F	
	Test flame according to IEC 60695-11-5 with conditions as set out	ANN I	N/A
1	Test specimen does not show any additional hole	~ ~	N/A
5.3	Flammability test for the bottom of a fire enclosure	L L	N/A
	Samples, material	12 X 4	
4	Wall thickness (mm)	K X X	
Z	Cheesecloth did not ignite		N/A
5.4	Flammability classification of materials	A.	N/A
5.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	194	N/A
K	Samples, material	6	
L.	Wall thickness (mm)	I II	
	Conditioning (test condition), (°C).	A R R	
4	Test flame according to IEC 60695-11-20 with conditions as set out	A. A	N/A
	After every test specimen was not consumed completely	5	K N/A
Å	After fifth flame application, flame extinguished within 1 min	417 57	N/A
Γ	MECHANICAL STRENGTH TESTS		Р
F.1 2	General requirements	The A	Р
7.2	Steady force test, 10 N	K	Р
T.3	Steady force test, 30 N		P
7.4	Steady force test, 100 N	Å	N/A
1.5	Steady force test, 250 N	(See appended table T.5)	N/A
5.6	Enclosure impact test	S. X	N/A
	Fall test	L Z L	N/A
. ~	Swing test	N N N	N/A
r.7 🖉	Drop test	(See appended table T.7)	N/A
r.8	Stress relief test	(See appended table T.8)	N/A
Г.9	Impact Test (glass)	No glass used	N/A

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	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
	19. IP.	19 A	H
Г.9.1	General requirements	2	N/A
Т.9.2	Impact test and compliance	X L	N/A
Z	Impact energy (J)	Y Y Y	
~	Height (m)	X. X	
Г.10	Glass fragmentation test		N/A
Г.11 🔨	Test for telescoping or rod antennas	K U	N/A
K	Torque value (Nm)	× 6 5	
U	MECHANICAL STRENGTH OF CATHODE RA PROTECTION AGAINST THE EFECTS OF IMPLOSION	Y TUBES (CRT) AND	N/A
U.1	General requirements	N. S.	N/A
U.2	Compliance and test method for non-intrinsicallyprotected CRTs	R. A.	N/A
U.3	Protective Screen	4	N/A
V	DETERMINATION OF ACCESSIBLE PARTS (WEDGES)	FINGERS, PROBES AND	N/A
V.1 🖉	Accessible parts of equipment	4 4	N/A
V.2 🚿	Accessible part criterion		N/A

4.1.2	TABLE: List of critical compone	nts	6	N/A
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Mark(s) of conformity
-2.2	9	4		

4.8.4,4.8.5	TABLE: Lithium coin/buttor		Ľ.	N/A				
(The follow:	ing mechanical tests are conduct	ed in th	e sequence	noted.)		_		
4.8.4.2	TABLE: Stress Relief test		~			N.		
Part	Material Oven Temperature (°C)						Comments	
	43	$\hat{\mathbf{G}}$		L.			47	
4.8.4.3	TABLE: Battery replacement	test	G	1		K	L'	
Battery part	no:					14		
Battery	y Installation/withdrawal	Batte	ry Installati	on/Removal (Cycle		Comments	
AN	R R	14.		A, ^X	VL.	·	L'Y	14
~	N K	2			A			R
	1 North Contraction of the Contr	3			~			~
~	4	4	5			- 5	la:	
9	5	5 ک	K			- 2	K	
~	2 12	6	X	L.)	- K	L.	
4		7	2	417	1	<u>_</u>	41	14.
NH4	A A	8	X	The second secon	Z		Z'	Z
No.	L A	9		X			X	
1×		10	K			Z		
4.8.4.4	TABLE: Drop tes	t	5			5		C
	S L	L	4	4	X	1	4	14

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Impact Area	Drop Distance	Drop No.	Observations
		1	
- 6		2	- 2
- 4	- L L	3	- 5 2
4.8.4.5	TABLE: Impact	R. X	L' L'
Impacts per surface	Surface tested	Crushing Force (N)	Duration force applied (s)
- ,8 .	K X	- 7 7 .	Ϋ́,
Supplementary informa	tion:	2	

4.8.5 🔨	TABLE: I		SN/A				
Test position		Surface tested			Force (N)		Duration force applied (s)
-2	N.S.	T.	ES	- 7	1	<u> </u>	L'
Supplementary inf	formation:	2	1	1	Z	Z	X

5.2	Table: Clas	ssification of electrica	al energy source	s		L.	N/A
No.	Supply Voltage	Location((e.g. circuit designation)	Test conditions	U (Vrms or Vpk)	Parameters I (Apk or Arm	Hz	ES Class
1	4	Input	Normal	5Vrms	- 8	- 4	ES1
L.		Z Z	Abnormal:	- 5			11
WH41	1 AM	MHA	Single fault SC/OC:	- W	- 1 1	14 MA	11
5.2.2.3	Capacitanc	e Limits					
No.	Supply Voltage	Location((e.g. circuit designation)	Test conditions	Capacitance, n	Parameters F U	pk (V)	ES Class
-Z	- 8	- 2	- 2	-5 3	3	K	X
5.2.2.4	Single Puls	ses			·		
No.	Supply Voltage	Location((e.g. circuit designation)	Test conditions	Duration (ms)	Parameters Upk (V)	Ipk (mA)	ES Class
	X		Normal	- 5		/	5
			Abnormal	- 1	- 4	- 2	(
LAN.		E8.	Single fault SC/OC	- HH	- 4	- 1	
5.2.2.5	Repetitive	Pulses					
No.	Supply	Location((e.g.	Test		Parameters		ES Class
	Voltage	circuit designation)	conditions	Duration (ms)	Upk (V)	Ipk (mA)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4		~	Normal	5		5	
		19	Abnormal	<u>Yi</u>	- 2	¥	K
	S	XIX X	Single fault SC/OC	- 4	- 4	- 2	S

Test Conditions:

Normal – any load. Abnormal -

Supplementary information: SC=Short Circuit, OC=Short Circuit

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										2	
5.4.1.4,	TABLE	: Temperature	mea	asuremen	ts	A.			X	<u> </u>	Р
6.3.2, 9.0, B.2.6	~										5
	Supply	voltage(V):		DC	3.7V			1	2	×	
6	Ambien	t Tmin (°C)		2.	4.5	5	,	~	- 4	2 - 3	
No Z	Ambien	t T max (°C)		2	4.5	Ľ	- 2	5	- 2	-	
Z.	Tma (°C		S	2.	4.5		7.		<u>z</u>		
Maximum r part/at:	neasured t	emperature T	of				T (°C)			Allowed Tmax (°C)
PCB	\sim			3	9.7		- 2			- 6	105
Adapter			4	2	8.4		-0		×.	×	75 🔨
Button	C		~	2	7.6		4		2-	K.	75
Temperature winding:	e T of	t1 (°C)	R	1 (°C)	t2 (°C)	R2 (°C)	T ((°C)	Allowed Tmax (°C)	Insulation class
	A.			A.							2 North Contraction of the second sec

Supplementary information:

Note 1: Tma should be considered as directed by appliable requirement

Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9)

1. With a specified maximum ambient temperature and test temperature of 45°C, the maximum permitted

temperatures are calculated as follows: Winding components (providing safety isolation):

Class 130 (B) Tmax = 120° C - 10° C = 110° C

2. During the test, the sealing compound did not soften or melt.

5.4.1.10.2	TABLE: Vicat	TABLE: Vicat softening temperature of thermoplastics					
Penetration	n (mm):						
Object/ Par	Object/ Part No./Material				/trademark	T softenin	g (°C)
- ~	14	~	14	- 6	2	- 5	1
6		6		AI	X	, LI	X

supplementary information:

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics										
Allowed impression diamete	r (mm):									
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	meter (mm)						
- /	/	-		6						
Supplementary information:	S L	H	K K	<u>L</u>						

5.4.2.2,	TABLE: Min	imum Cle	arances/Cre	eepage distan	ce	6	1	N/A
5.4.2.4 and 5.4.3	8	Y	X	N N	2		X	X
Clearance (cl) an	nd creepage	Up	U r.m.s.	Frequenc	Required	cl	Required	cr
distance (cr) at/o	of/between:	(V)	(V)	y (kHz)	cl (mm)	(mm)	cr (mm)	(mm)
Basic/supplementa	ry insulation			7		,		
<i>k</i>	4			- 6		- 6		
Reinforced insulati	on 🔗							
'- K	2	- ,0	2-	1	- 5		- 0	
Supplementary info	ormation:	1		\sum_{i}	4	L	14	2
Note 1: Only for fr			L'					Y
Note 2: See table 5	.4.2.4 if this is	based on o	electric stre	ngth test				

Note 3: Provide Material Group

FI= Functional insulation, BI= Basic insulation, SI= Supplementary insulation, RI= Reinforced insulation.
 For clearances and creepages did not describe as above were far less than limit.

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5 4 9 9		F \(' '		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				2		
5.4.2.3	-		1		s using required	i withsta	nd voltage			N/A II
		on Degree	egory (OV)				/			<u></u>
Clearance of				<u></u>		Т		-)	N (1.28
	1.5.7			kequired wi	thstand voltage	1	Required cl(mn	1) .	Measure	ed cl (mm)
Basic / sup	plementa	ary insulat	.10n	2		0	2	4	7	
-	X		4	X	- 41	- X				
Reinforced	Insulation	on		2	-	- A	×.		Z	
X		Z	X		- 21	N				-
Supplemen . BI: basic			pplementar	y insulation;	DI: double insu	ılation; I	RI: reinforced i	nsulatio	n;	Z
.4.2.4	TABL	E: Cleara	nces based o	on electric st	rength test	5			2	N/A
est voltag	e applied	l between	: Requir	ed cl (mm)	Test voltage	(kV) pea	ak/ r.m.s. / d.c.	Bre	akdown	Yes / No
2		5			G- 2		, Li	-7		4
upplemen	tary info	rmation:	X	1	U N			2		~
	-		2	2	- A		X	T		X
.4.4.2, .4.4.5 c) .4.4.9	WK.			A.M.	neasurements	TIS.	<u>S</u>		Ň	N/A
Distance th			Peak voltag	e (V) Fre	equency (kHz)	Mater	rial Require	ed DTI(r	nm)	DTI (mm)
nsulation d	di at/of:									
	X	L.		K	A.	, C-7-			0	<u>)</u>
upplemen	tary info	rmation:		12	Y.	14	The second		X	
K		L'	1		<u>1</u>	R'	2		V	L.
.4.9	TAB	LE: Electi	ric strength	tests		2.			Z'	N/A
est voltag	ge applied	d between	:	Voltage s	hape (AC, DC)	Т	est voltage (V)	Br	eakdow	n Yes / No
7			Y		- ~			N	-	-
Routine Te	ests:		K				~			4
_		A			A		2		-	- 19
upplemen	toninfo	rmation:		4	2 1				~	- K
uppremen	nary mit	fillation.			~		X	0 [j]	>	T.
.5.2.2	TAP	I E. Store	d discharge	on capacito	r 0		State of the second sec			N/A
Supply V		Test		berating	Switch		Measured V	altaga		assification
(V), H	U	Locatio		ition(N, S)	Position On		(after 2 seco		ESCI	assilication
(V), r	12	Locatio	on Cond	$\min(N, S)$	Position On	oron	(alter 2 seco	onds)		
 Supplemen					<u> </u>					
K-capacito □bleeding □ICX: Notes: A. 1 3. Operatir	rs install ; resistor Fest Loca ng condit	ed for test rating: ation: Pha tion abbre	se to Neutra viations:		Phase; Phase to ion, or open fuse				- HINHAN	18. 18.
.6.6.2	TADIE	Desista	a of met	tivo cor la d	ors and termina	tions	X			N/A
	sible par		Test currer		Ors and termina		age drop (V)	Б	Resistan	
Acces	sible par					volt	age urop (v)	F	Cesistall	(52)
unnlar	tom. :f		S-		- Al			$\overline{\psi}$		/
upplemen	nary into	mation:	47	- 2-	1					â
.7.2.2,	TABL	E: Eartheo	l accessible	conductive	part		Ž			N/A
.7.4		~	X		7					5
Supply vol	tage ·	N.	Z			2	K		+	-
Location:	ш <u></u> с .			Condition	itions specified No in IEC 6099 ccept for 6.2.2.7	90 claus			То	uch curren (mA)
		19	7	4	4	7	L.		~	K

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 $\frac{1}{2^{*}}$

3

4

5

Supplementary Information:

Notes:[1] Supply voltage is the anticipated maximum Touch Voltage

[2] Earthed neutral conductor [Voltage differences less than 1% or more]

[3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3

[4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.

[5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler)

6.2.2	Table: Electrical por	wer sources (PS) me	asurements for classifica	tion	Р
Source	Description	Measurement	Max Power after 3 s	Max Power after 5s*	PS Classification
A	Input / all internal	Power (W): VA (V):	7.44 	-	AWH
Ĩ,	circuits	IA (A):	- ~	<u>_</u>	A PS1
		IA (A):			4

Supplementary Information: (*) Measurement taken only when limits at 3 seconds exceed PS1 limits

6.2.3.1	Table:	Determination of Potential Ignition Sources (Arcing PIS)							
Location	n	Open circuit	Measured r.m.s	Calculated value	Arcing P	IS?			
		Voltage After 3 s(Vp)	current(Irms)	(Vp x Irms)	Yes / N	0			
-8			A'						

Supplementary information:

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (Vp) and normal operating condition rms current (Irms) is greater than 15.

					JY IV	
	6.2.3.2 Ta	ble: Determination of P	otential Ignition S	ources (Resistive	PIS)	N/A
	Circuit Location	Operating	Measured	Measured	Protective Circuit,	Resistive
2	(x-y)	Condition	wattage or VA	wattage or VA	Regulator, or PTC	PIS?
		(Normal / Describe	During first 30	After 30 s (W	Operated?	Yes/No
		Single Fault)	s (W / VA)	/VA)	Yes / No	
					(Comment)	
	- 19		6		- K	- 4

Supplementary Information:

A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter. If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

8.5.5 TABLE: High Pressure Lam	p S	P. S	N/A
Description	Values	Energy Source	e Classification
Lamp type:	X X	<u>,</u>	
Manufacturer:	N. N.	-	
Cat no:		-	
Pressure (cold) (MPa):	5	M	S

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N/A

N/A

N/A

N/A N/A

Pressure (operating) (MPa):	N.	2	MS_	
Operating time (minutes):				
Explosion method:				
Max particle length escaping enclosure (mm):	4	<		
Max particle length beyond 1 m (mm):	HI X	11	MS	
Overall result:	A A	L.	MS_	T.
Supplementary information:	S N	Y		Y
		N		

B.2.5	TABLE	: Input test	- K		K		5	Р
U (V)	I (A)	I rated A)	P (W)	P rated W)	Fuse No	I fuse (A)	Con	dition/status
12	0.88	T/	10.58	12	- 19	-	Nor	mal operate
Consultant and a market	C. C. C.	1	N.	1			1	0

Supplementary information:

Equipment may be have rated current or rated power or both. Both should be measured

B.3											
Ambient temp	Ambient temperature (°C):										
Power source	for EUT: Ma	anufacturer,	model/type	, output	rating:		<u>_</u>				
Component	Abnormal	Supply	Test	Fuse	Fuse	T-couple	Temp.	Ob	servation		
No.	Condition	voltage,	time	no.	current,		(°C)				
		(V)	(ms)		(A)						
2	-1			×4		x -	- 1	Y	- 8		

-Supplementary information:

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

NB = No indication of dielectric breakdown; NC = Cheesecloth remained intact; NT = Tissue paper remained intact; IP = Internal protection operated (list component); CD = Components damaged (list damaged components); @ = Tests were repeated 2 more times (Totally 3 times) and get the same result; I/P = Input; O/P = Output.

B.4	TABLE: F	ault condition t	ests	X	R R	2			N/A	
Ambient tem	perature (°C)			V.			Z.			
Power source	for EUT: Ma	anufacturer, mo	del/type, out	put ratin	ıg:		N.			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Current, (A)	T-co uple	Temp. (°C)	Obser	vation	
- 1		S - S	5 -	P.	1×1		- Si	- K	-	4

Supplementary information:

NB = No indication of dielectric breakdown; NC = Cheesecloth remained intact; NT = Tissue paper remained intact; IP = Internal protection operated (list component); CD = Components damaged (list damaged components); @ = Tests were repeated 2 more times (Totally 3 times) and get the same result; I/P = Input; O/P = Output, NSF = No Ignition, TC = Touch Current measured.

Annex M	TABLE:	Batteries			.5			5		N/A	
The tests of	f Annex M	are applica	able only w	hen appropria	te battery c	lata is not	available	X	A		
Is it possible to install the battery in a reverse polarity position?:									6		
Non-rechargeable batteries Rechargeable batter									s		
	Discharging Un-				Char	Charging Discharging				Reversed charging	
		Meas.	Manuf.	intentional	Meas.	Manuf.	Meas.	Manuf.	Meas.	Manuf.	
		current	Specs.	charging	current	Specs.	current	Specs.	current	Specs.	
Max. cu	urrent	,	X					- >			
during n	ring normal								1		
condit	tion	6		ŝ			G			6	

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2					
Test results:		L'			Verdict
- Chemical leaks	K		K		· · · ·
- Explosion of the battery	5		5	~	<u> </u>
- Emission of flame or expulsion of	molten metal	K	2	G	
- Electric strength tests of equipmen	t after completio	on of tests	4	L- 12	× -
Supplementary information:	Z'	2	<u>Z</u>	Y.	A is

Annex M.4 Table: Additional safeguards for equipment containing secondary lithiumbatteries N/A							
Battery/Cell No.	Test conditions	Measurements			Observ	Observation	
		U	I (A)	Temp (°C	C)		
6	Normal		2		41		
× -	Abnormal 📈		Į.	<u> </u>		L.	
	Single fault –SC/OC			41-	8-	41	
Supplementary Information: SC = short circuit.							
Battery	Charging at	Observation	Charging at		Observation		
identification	Tlowest(°C)		Thighest(°C)				
- 2	<u> </u>	<u> </u>	1 de la companya de l		7		
Supplementary Infor	Supplementary Information:						

 Annex Q.1
 TABLE: Circuits intended for interconnection with building wiring (LPS)
 N/A

 Note: Measured UOC (V) with all load circuits disconnected:
 Note: Measured UOC (V) with all load circuits disconnected:
 VA

 Output Circuit
 Components
 Uoc (V)
 Isc (A)
 S (VA)

 Image: Supplementary Information: SC=Short circuit, OC=Open circuit
 Image: Supplementary Information: SC=Short circuit, OC=Open circuit
 Image: Supplementary Information: SC=Short circuit, OC=Open circuit

	V~				
T.2, T.3, T.4, T.5	TABLE: Stea	dy force test			P
Part/Location	Material	Thickness(mm)	Force(N)	Test Duration(sec)	Observation
Enclosure 🖉	Plastic	1.5	10	5	All safeguards
~ ~ <u>~</u>	X	4	5	5	remain effective

Supplementary information:

			F F		•	
T.6, T.9 TAI	BLE: Impact tests	No.			N/A	
Part/Location	Material	Thickness(mm)	Drop Height (mm)	Observatio	n	
	5-					
Supplementary information:						

T.7 TA	BLE: Drop tests	R. L	L'	~		N/A
Part/Location	Material	Thickness(mm)	Drop Height (mm)		Observation	
Ŧ	2- S	F - K	- X -	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>	Z
Supplementary information:		A	Y	A	Y	4

	N 1	1 2		2			
T.8	TABLE: Stress relie	ef test		×.			
Part/Locatio	n Material	Thickness	Oven Temperature	Oven Temperature Duration(h)			
		(mm)	(°C)				
~ -	- ~		5 -	6			
Supplementar	Supplementary information:						

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Appendix for product photo





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