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TEST REPORT EN 62368-1

Audio/video, information and communication technology equipment Part 1: Safety requirements

Report Number:	LCSA080822109S
Date of issue	2022-08-15
Total number of pages:	75
Name of Testing Laboratory preparing the Report	Shenzhen LCS Compliance Testing Laboratory Ltd.
Applicant's name:	Mid Ocean Brands B.V.
Address:	7/F., Kings Tower,111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Test specification:	
Standard:	EN IEC 62368-1:2020+A11:2020
Test procedure:	Type test
Non-standard test method :	N/A
TRF template used:	IECEE OD-2020-F1:2020, Ed.1.3
Test Report Form No	IEC62368_1E
Test Report Form(s) Originator :	UL(US)
Master TRF:	Dated 2021-02-04

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LCS Testing

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1	S-	则股份 ting Lab F	Page 2 of 75	Report No.: LCSA080822109S
Test	t item description:	power	bank with solar panel	100
Trad	le Mark(s):	N/A		
Man	ufacturer:	11462	8	
Mod	lel/Type reference:	MO907	75	
Rati	ngs:	Input:	5V===1A	
		USB C	0utput:5V===1A	
		Battery	y: 3.7V=== 4000mAh	
Test	Testing Laboratory: ting location/ address		Room 101, 201, Buildin	ance Testing Laboratory Ltd. g A and Room 301, Building C, bianxueziwei, Shajing Street, en, Guangdong, China
Prep	pared by	:	Jade Xiao Project Handler	Jade Xiao
Che	cked by	:	Terry zhu Reviewer	Jenny Vhm
Арр	roved by	ting Lab	Hart Qiu Technical Director	Hut Usi





List of Attachments (including a total number of	pages in each attachment):
- Attachment No. 1: National Differences	
-Attachment No. 2: Photo Documentation	
Summary of testing:	
Tests performed (name of test and test clause):	Testing location:
Electrical safety:	Shenzhen LCS Compliance Testing Laboratory Ltd.
EN IEC 62368-1:2020+A11:2020	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing
古田检测股份	Street, Bao'an District, Shenzhen, Guangdong, China
Summary of compliance with National Difference	S: CS Testing
List of countries addressed: National Differences No. 1.	and Group Differences as refer to Attachment
\boxtimes The product fulfils the requirements of <u>EN IEC</u>	<u> 62368-1:2020+A11:2020</u>
Statement concerning the uncertainty of the mea	surement systems used for the tests

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

Procedure number, issue date and title:

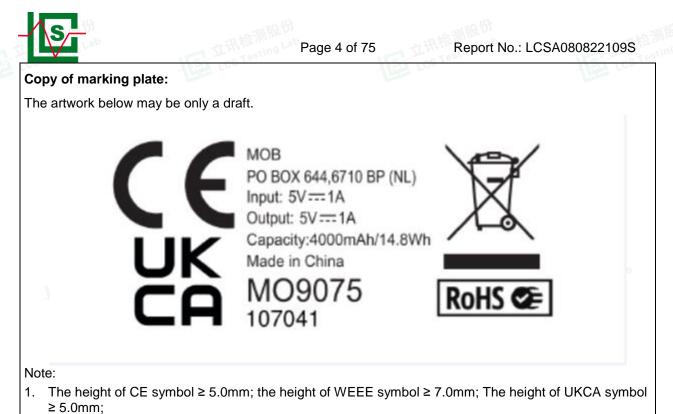
Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

Statement not required by the standard used for type testing

When determining for test conclusion, measurement uncertainty of tests has been considered. The determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

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2. The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.



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Test item particulars:	The second secon
Product group:	🖾 end product 🛛 built-in component
Classification of use by:	 ☑ Ordinary person ☑ Instructed person ☑ Skilled person
Supply connection:	 AC mains DC mains M not mains connected: M ES1 □ ES2 □ ES3
Supply tolerance:	□ +10%/-10% □ +20%/-15%
Supply connection – type	 □ + %/ - % ⊠ None □ pluggable equipment type A - □ non-detachable supply cord
	 appliance coupler direct plug-in pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection
Considered current rating of protective	\square other: Not directly connected to the mains \square A;
Equipment mobility	Location: □ building □ equipment N/A □ movable □ hand-held ⊠ transportable □ direct plug-in □ stationary □ for building-in □ wall/ceiling-mounted □ SRME/rack-mounted
Overvoltage category (OVC):	 □ other: □ OVC I □ OVC II □ OVC IV □ other: Supplied by Max. DC 5V
Class of equipment:	Class I Class II Class III
Special installation location: Pollution degree (PD)	 N/A □ restricted access area outdoor location □ PD 1 □ PD 2 □ PD 3
Manufacturer's specified T _{ma}	
IP protection class:	25 °C □ Outdoor: minimum °C ⊠ IPX0 □ IP
Power systems:	TN TT IT - V_{L-L} Not AC mains
Altitude during operation (m)	⊠ 2000 m or less □ m
Altitude of test laboratory (m)	\boxtimes 500 m or less \square m
Mass of equipment (kg)	<u>0.14</u> kg





上示 Testing Lab

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Pos	sible test case verdicts:		
- te	st case does not apply to the test object:	N/A	
- te	st object does meet the requirement:	P (Pass)	
- te	st object does not meet the requirement:	F (Fail)	
Tes	ting:		
Dat	e of receipt of test item:	2022-08-08	
Dat	e (s) of performance of tests	From 2022-08-08 to 2022-08-15	
Gei	neral remarks:	THREE Lab	thi Altzing Lab
The rep	oughout this report a comma / point e applicant and manufacturer information, prod port are all provided by the applicant, and this la nufacturer's Declaration per sub-clause 4.2.5	uct name, model, trademark and oth aboratory is not responsible for verif	
incl dec san rep	e application for obtaining a CB Test Certificate udes more than one factory location and a laration from the Manufacturer stating that the nple(s) submitted for evaluation is (are) resentative of the products from each factory been provided	 ☐ Yes ☑ Not applicable 	立形检查 的股份
Nar	ne and address of factory (ies)	Same as Manufacturer	LCS TO
Wh	en differences exist; they shall be identified	in the General product information	n section.
Gei	neral product information and other remark	S:	
1.	The product was submitted and tested for use temperature (Tma) of 25°C.	e at the manufacturer's recommend	ed ambient
2.	The product covered in this report is a power b apparatus;	bank with solar panel for use with sir	nilar electronic

Solar energy is not evaluated in this report. 3.





OVERVIEW OF ENERGY SOU	RCES AND SAFEGUARDS			
Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All circuits (5V Max.)	Ordinary	N/A	N/A	N/A
ES1:Battery(4.2V)	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS2: <100 Watt circuit (Internal circuit)	РСВ	Equipment safeguards (no ignition)	V-0	N/A
PS2: <100 Watt circuit (Internal circuit)	Combustible materials within equipment	Equipment safeguards (no ignition)	V-1 or better	N/A
PS2: <100 Watt circuit (Internal circuit)	Battery	Equipment safeguards (no ignition)	V-1 or better	N/A
7	Injury caused by hazardous	substances		
Class and Energy Source	Body Part Safeguards			
(e.g. Ozone)	(e.g., Skilled)	В	S	R
Battery		N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
MS1: Less than 7kg	Mass of the unit	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part		Safeguards	
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
TS1: Enclosure	Ordinary	N/A	N/A	N/A
10	Radiation			
Class and Energy Source	Body Part		Safeguards	
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
RS1	Indicator	N/A	N/A	N/A







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ENERGY SOURCE DIAGRAM

Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems.

Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings

 \boxtimes ES \boxtimes PS \boxtimes MS \boxtimes TS \boxtimes RS

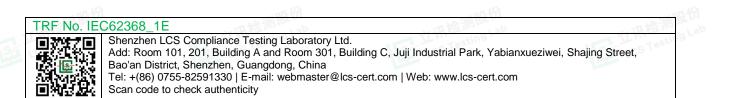












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Clause

Requirement + Test

Result - Remark

Verdict

4	GENERAL REQUIREMENTS		
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Р
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	P B&th ng Lab
4.1.3	Equipment design and construction	Evaluation of safeguards regarding limiting the outputs to fulfill ES1 and protection in regard to risk of spread of fire, mechanical and thermal burn injury considered.	Ρ
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered		N/A
4.1.8	Liquids and liquid filled components (LFC)	ti Hta Wing Lab	N/A
4.1.15	Markings and instructions	(See Annex F)	P P Tes
4.4.3	Safeguard robustness		N/A
4.4.3.1	General		N/A
4.4.3.2	Steady force tests	(See Annex T3)	Р
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests		N/A
4.4.3.5	Internal accessible safeguard tests	No such safeguard.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	The second s	N/A
NG I	Glass impact test (1J)	LS Test	N/A
The second	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		N/A
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion		Р

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Clause	Requirement + Test	Result - Remark	Verdict	
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions.	Р	
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Р	
	No harm by explosion during single fault conditions	(See Clause B.4)	Р	
4.6	Fixing of conductors		Р	
	Fix conductors not to defeat a safeguard		Р	
	Compliance is checked by test:	The second se	N/A	
4.7	Equipment for direct insertion into mains socket	-outlets	N/A	
4.7.2	Mains plug part complies with relevant standard :	The Lo	N/A	
4.7.3	Torque (Nm):		N/A	
4.8	Equipment containing coin/button cell batteries		N/A	
4.8.1	General	Equipment for locations where it is unlikely that children will be present.	N/A	
4.8.2	Instructional safeguard:		N/A	
4.8.3	Battery compartment door/cover construction		N/A	
THE	Open torque test	一一股份	N/A	
4.8.4.2	Stress relief test	立语 Maring Lab	N/A	
4.8.4.3	Battery replacement test	1001	N/A	
4.8.4.4	Drop test		N/A	
4.8.4.5	Impact test		N/A	
4.8.4.6	Crush test		N/A	
4.8.5	Compliance		N/A	
	30N force test with test probe		N/A	
	20N force test with test hook		N/A	
4.9	Likelihood of fire or shock due to entry of condu	ctive object	N/A	
4.10	Component requirements	- 田位河	N/A	
4.10.1	Disconnect Device	LCS Test	N/A	
4.10.2	Switches and relays		N/A	

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5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits ES1		Р
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.4	Single pulse limits	No such single pulses generated in the EUT or applied to it.	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses within the EUT	N/A
5.2.2.6	Ringing signals	No such ringing signals within the EUT	N/A
5.2.2.7	Audio signals		N/A
5.3	Protection against electrical energy sources	- 	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	Only ES1 circuits within the equipment.	N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits		N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors		N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit can be accessed for this product	N/A
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements		N/A
	Test with test probe from Annex V		-
5.3.2.2 a)	Air gap – electric strength test potential (V):	田校测版份	N/A
5.3.2.2 b)	Air gap – distance (mm):	I CS Testing La	N/A
5.3.2.3	Compliance	T	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	Р
5.4.1.3	Material is non-hygroscopic	No hygroscopic material used.	Р
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	Р
5.4.1.5	Pollution degrees:	2	Р
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied. No insulating compound applied (however see 5.5.4).	N/A
5.4.1.5.3	Thermal cycling test	See above	N/A
5.4.1.6	Insulation in transformers with varying dimensions	No such transformer within the EUT	N/A
5.4.1.7	Insulation in circuits generating starting pulses	No such starting pulses within the EUT	N/A
5.4.1.8	Determination of working voltage:		N/A
5.4.1.9	Insulating surfaces		N/A



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 Shenzhen LCS Compliance Testing Laboratory Ltd.

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Clause	Requirement + Test	Result - Remark	Verdic
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.10.2	Vicat test:		N/A
5.4.1.10.3	Ball pressure test:		N/A
5.4.2	Clearances	Class III equipment, only functional insulations were considered. See also Annex B.4.4 for short circuit of functional insulation.	N/A
5.4.2.1	General requirements	十田检测	N/A
E t	Clearances in circuits connected to AC Mains, Alternative method	LCS Test	N/A
5.4.2.2	Procedure 1 for determining clearance		N/A
	Temporary overvoltage:		
5.4.2.3	Procedure 2 for determining clearance		N/A
5.4.2.3.2.2	a.c. mains transient voltage		_
5.4.2.3.2.3	d.c. mains transient voltage		
5.4.2.3.2.4	External circuit transient voltage		
5.4.2.3.2.5	Transient voltage determined by measurement:	ALL HA	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	立讯/配/ASU Lab	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	~	N/A
5.4.2.6	Clearance measurement:		N/A
5.4.3	Creepage distances		N/A
5.4.3.1	General		N/A
5.4.3.3	Material group:	Illa&IIIb	
5.4.3.4	Creepage distances measurement:		N/A
5.4.4	Solid insulation		N/A
5.4.4.1	General requirements	古田检测	N/A
5.4.4.2	Minimum distance through insulation	ST LCS Test	N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		N/A
	Number of layers (pcs):		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.6.3	Non-separable thin sheet material	No such insulation used within the EUT	N/A
	Number of layers (pcs)		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_{\rm P}$, $K_{\rm R}$, d , $V_{\rm PW}$ (V)		N/A
ST	Alternative by electric strength test, tested voltage (V), $K_{\rm R}$	LOS Test	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
5.4.5.3	Insulation resistance (MΩ)		N/A
	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	No such insulation of internal wire as part of supplementary safeguard.	N/A
5.4.7	Tests for semiconductor components and for cemented joints	立形检测 Datab	N/A
5.4.8	Humidity conditioning	E	N/A
	Relative humidity (%), temperature (°C), duration (h):		
5.4.9	Electric strength test		N/A
5.4.9.1	Test procedure for type test of solid insulation:		N/A
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from external circuits		N/A
5.4.10.1	Parts and circuits separated from external circuits	1.4	N/A
5.4.10.2	Test methods	IL I MILL	N/A
5.4.10.2.1	General	Ten ros	N/A
5.4.10.2.2	Impulse test		N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test		N/A
5.4.11	Separation between external circuits and earth	No such connections for external circuit applied within the EUT	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.4.11.1	Exceptions to separation between external circuits and earth	No such connections to external circuit as above.	N/A
5.4.11.2	Requirements		N/A
	SPDs bridge separation between external circuit and earth		N/A
	Rated operating voltage U _{op} (V):		_
	Nominal voltage U _{peak} (V)		
	Max increase due to variation ΔU_{sp} :		
1	Max increase due to ageing ΔU_{sa} :	立 讯检测	
5.4.11.3	Test method and compliance:	ST LCS TO	N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid		N/A
5.4.12.3	Compatibility of an insulating liquid		N/A
5.4.12.4	Container for insulating liquid		N/A
5.5	Components as safeguards		N/A
5.5.1	General		N/A
5.5.2	Capacitors and RC units	· · · · · · · · · · · · · · · · · · ·	N/A
5.5.2.1	General requirement	IL HVILLESTesting La	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	1	N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays	No such component provided.	N/A
5.5.6	Resistors	No such component provided.	N/A
5.5.7	SPDs	No such component provided.	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	No such external circuits.	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	Liffix	N/A
- CEA L	RCD rated residual operating current (mA):		_
5.6	Protective conductor	Class III equipment	N/A
5.6.2	Requirement for protective conductors		N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.6.3	Requirement for protective earthing conductors		N/A
	Protective earthing conductor size (mm ²):		
	Protective earthing conductor serving as a reinforced safeguard		N/A
	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors		N/A
5.6.4.1	Protective bonding conductors		N/A
t	Protective bonding conductor size (mm ²):	北讯检测	
5.6.4.2	Protective current rating (A):	ST LCS Tes	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)		N/A
	Terminal size for connecting protective bonding conductors (mm):		N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements	al S	N/A
5.6.6.2	Test Method:	士讯检测版Di	N/A
5.6.6.3	Resistance (Ω) or voltage drop:	LCS Testing	N/A
5.6.7	Reliable connection of a protective earthing conductor	E	N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm ²):		N/A
	Class II with functional earthing marking		N/A
	Appliance inlet cl & cr (mm):		N/A
5.7	Prospective touch voltage, touch current and pro	otective conductor current	N/A
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current	力讯检测	N/A
5.7.2.2	Measurement of voltage	ST LCS Test	N/A
5.7.3	Equipment set-up, supply connections and earth connections		N/A
5.7.4	Unearthed accessible parts:		N/A
5.7.5	Earthed accessible conductive parts:		N/A
5.7.6	Requirements when touch current exceeds ES2 limits		N/A
	Protective conductor current (mA)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Instructional Safeguard:		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A
5.7.7.1	Touch current from coaxial cables		N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables		N/A
5.7.8	Summation of touch currents from external circuits		N/A
	a) Equipment connected to earthed external circuits, current (mA):		N/A
E	b) Equipment connected to unearthed external circuits, current (mA):	Les Les	N/A
5.8	Backfeed safeguard in battery backed up suppl	ies	N/A
	Mains terminal ES:		N/A
	Air gap (mm):		N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		Р
6.2.2	Power source circuit classifications:	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources	可於測股份	Р
6.2.3.1	Arcing PIS	LCS Testing	N/A
6.2.3.2	Resistive PIS	E E	Р
6.3	Safeguards against fire under normal operating a conditions	nd abnormal operating	Ρ
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table B.3)	Р
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault conditions		Р
6.4.1	Safeguard method	Method of "control of fire spread" is used.	RE (CP
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	LCS Test	Р
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		Ρ
6.4.3.1	Supplementary safeguards		Р
6.4.3.2	Single Fault Conditions:		Р
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		Р
6.4.5	Control of fire spread in PS2 circuits		Р





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Clause	Requirement + Test	Result - Remark	Verdict
6.4.5.2	Supplementary safeguards	Compliance detailed as follows: - <u>Printed board</u> : rated min. V- 0 - <u>Battery cell</u> : complying with IEC/EN 62133. - <u>All other components</u> : at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g).	P
6.4.6	Control of fire spread in PS3 circuits	No PS3 circuits.	N/A
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	No specific barrier provided.	N/A
6.4.8	Fire enclosures and fire barriers	See below	Р
6.4.8.2	Fire enclosure and fire barrier material properties	The V-0 material is used for the fire enclosure	N/A
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure	The V-0 material is used for the fire enclosure	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	LCSTesting	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings		N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties		N/A
	Openings dimensions (mm):	No fire enclosure required.	N/A
6.4.8.3.4	Bottom openings and properties		N/A
	Openings dimensions (mm):	No fire enclosure required.	N/A
	Flammability tests for the bottom of a fire enclosure		N/A
2	Instructional Safeguard:	立田位 制	N/A
6.4.8.3.5	Side openings and properties	ST LOS Test	N/A
	Openings dimensions (mm):	No fire enclosure required.	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)		N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 fire enclosure material.	N/A
6.4.9	Flammability of insulating liquid:		N/A
6.5	Internal and external wiring		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
6.5.1	General requirements		N/A
6.5.2	Requirements for interconnection to building wiring		N/A
6.5.3	Internal wiring size (mm ²) for socket-outlets:		N/A
6.6	Safeguards against fire due to the connection to	additional equipment	N/A

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	Р
7.2	Reduction of exposure to hazardous substances	
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	N/A
	Personal safeguards and instructions:	
7.5	Use of instructional safeguards and instructions	N/A
	Instructional safeguard (ISO 7010):	
7.6	Batteries and their protection circuits	Р

8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications		Р
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and corners		P.Te
8.4.1	Safeguards		N/A
	Instructional Safeguard:		N/A
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	Р
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A
	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
	Moving MS3 parts only accessible to skilled person	Tiller	N/A
8.5.2	Instructional safeguard:	Co.	N/A
8.5.4	Special categories of equipment containing moving parts		N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override		N/A

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THATHREY	IEC 62368-1	四位测度以	ot or
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator		N/A
8.5.4.2.3	Emergency stop system		N/A
	Maximum stopping distance from the point of activation (m)		N/A
	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements		N/A
NSI I	Mechanical system subjected to 100 000 cycles of operation	LCS TEST	N/A
	- Mechanical function check and visual inspection		N/A
	- Cable assembly:		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N):	an Hit	N/A
8.5.4.3.5	Compliance	ti用检测 lab	N/A
8.5.5	High pressure lamps	LCSTEST	N/A
	Explosion test:		N/A
8.5.5.3	Glass particles dimensions (mm):		N/A
8.6	Stability of equipment		N/A
8.6.1	General		N/A
	Instructional safeguard:		N/A
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		N/A
8.6.2.3	Downward force test	古田检测	N/A
8.6.3	Relocation stability	ST LCS Test	N/A
	Wheels diameter (mm):		
	Tilt test		N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test:		N/A
8.7	Equipment mounted to wall, ceiling or other struc	ture	N/A
8.7.1	Mount means type:		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
Olduse			2 10
	Test 1, additional downwards force (N)		N/A
	Test 2, number of attachment points and test force (N)		N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm)		N/A
8.8	Handles strength		N/A
8.8.1	General		N/A
8.8.2	Handle strength test		N/A
	Number of handles	古田检测	_
ST L	Force applied (N):	ST LCS Test	
8.9	Wheels or casters attachment requirements		N/A
8.9.2	Pull test		N/A
8.10	Carts, stands and similar carriers		N/A
8.10.1	General		N/A
8.10.2	Marking and instructions:		N/A
8.10.3	Cart, stand or carrier loading test		N/A
	Loading force applied (N)		N/A
8.10.4	Cart, stand or carrier impact test	10000000000000000000000000000000000000	N/A
8.10.5	Mechanical stability	I Minesting Lau	N/A
	Force applied (N):	T	_
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipment	nt (SRME)	N/A
8.11.1	General		N/A
8.11.2	Requirements for slide rails		N/A
	Instructional Safeguard:		N/A
8.11.3	Mechanical strength test		N/A
8.11.3.1	Downward force test, force (N) applied		N/A
8.11.3.2	Lateral push force test	立 讯检测	N/A
8.11.3.3	Integrity of slide rail end stops	LOSTO	N/A
8.11.4	Compliance		N/A
8.12	Telescoping or rod antennas	•	N/A
	Button/ball diameter (mm)		

9	THERMAL BURN INJURY	Р
9.2	Thermal energy source classifications	Р

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Clause	Requirement + Test	Result - Remark	Verdict
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts:	(See appended table 5.4.1.4,	Р
		9.3, B.1.5, B.2.6)	
9.3.2	Test method and compliance		Р
9.4	Safeguards against thermal energy sources		Р
9.5	Requirements for safeguards		Р
9.5.1	Equipment safeguard		Р
9.5.2	Instructional safeguard:		N/A
9.6	Requirements for wireless power transmitters		N/A
9.6.1	General		N/A
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance:		N/A

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification		Р
- HA	Lasers	THE COL	_
Li孔检测 man	Lamps and lamp systems:	其讯检 Wing Lab	_
LC2 12	Image projectors:	LCS	_
	X-Ray:		
	Personal music player:		
10.3	Safeguards against laser radiation		N/A
	The standard(s) equipment containing laser(s) comply:		N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)		Р
10.4.1	General requirements	Exempt Group: Indicator	P
	Instructional safeguard provided for accessible radiation level needs to exceed	Los Test	N/A
	Risk group marking and location:	Land Land	N/A
	Information for safe operation and installation		N/A
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure:		N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation		N/A
10.5.1	Requirements		N/A

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Clause	Requirement + Test Result - Remark	Verdict
	Instructional safeguard for skilled persons	
10.5.3	Maximum radiation (pA/kg)	
10.6	Safeguards against acoustic energy sources	N/A
10.6.1	General	N/A
10.6.2	Classification	N/A
	Acoustic output <i>L</i> _{Aeq,T} , dB(A)	N/A
	Unweighted RMS output voltage (mV):	N/A
	Digital output signal (dBFS):	N/A
10.6.3	Requirements for dose-based systems	N/A
10.6.3.1	General requirements	N/A
10.6.3.2	Dose-based warning and automatic decrease	N/A
10.6.3.3	Exposure-based warning and requirements	N/A
	30 s integrated exposure level (MEL30):	N/A
	Warning for MEL \geq 100 dB(A)	N/A
10.6.4	Measurement methods	N/A
10.6.5	Protection of persons	N/A
mitt	Instructional safeguards	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	N/A
10.6.6.1	Corded listening devices with analogue input	N/A
	Listening device input voltage (mV):	N/A
10.6.6.2	Corded listening devices with digital input	N/A
	Max. acoustic output L _{Aeq,T} , dB(A):	N/A
10.6.6.3	Cordless listening devices	N/A
	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):	N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		P
B.1	General	ST LCS Test	Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers:		N/A
B.2.3	Supply voltage and tolerances	Rated voltage	Р

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Clause	Requirement + Test	Result - Remark	Verdict
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	(Р
B.3.1	General		Р
B.3.2	Covering of ventilation openings		N/A
	Instructional safeguard		N/A
B.3.3	DC mains polarity test	The EUT is not connected to a D.C. mains	N/A
B.3.4	Setting of voltage selector	No voltage selector was used.	N/A
B.3.5	Maximum load at output terminals	工讲 TEL	N/A
B.3.6	Reverse battery polarity	Par resto	N/A
B.3.7	Audio amplifier abnormal operating conditions		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:		Р
B.4	Simulated single fault conditions		Р
B.4.1	General		Р
B.4.2	Temperature controlling device		N/A
B.4.3	Blocked motor test		N/A
B.4.4	Functional insulation	See below.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	P
B.4.4.2	Short circuit of creepage distances for functional	(See appended table B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards used.	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4 for faults on electronic components)	Ρ
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3.	Р
B.4.9	Battery charging and discharging under single fault conditions	(See appended table B.4)	Р
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
C.1.3	Test method		N/A
C.2	UV light conditioning test	1	N/A
C.2.1	Test apparatus:		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator	KST CS Test	N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINI	NG AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	signals	N/A
	Maximum non-clipped output power (W):		
	Rated load impedance (Ω):		
	Open-circuit output voltage (V):		
	Instructional safeguard:		
E.2	Audio amplifier normal operating conditions	一言	N/A
HT Resting L	Audio signal source type:	See tabel 4.2.1	_
0010	Audio output power (W):	See tabel 4.2.1	
	Audio output voltage (V):	See tabel 4.2.1	
	Rated load impedance (Ω):	See tabel 4.2.1	
	Requirements for temperature measurement		N/A
E.3	Audio amplifier abnormal operating conditions	See tabel B.3&B.4	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND I SAFEGUARDS	NSTRUCTIONAL	Р
F.1	General		Р
Ţ	Language:	English version provided and checked.	
F.2	Letter symbols and graphical symbols	Point reality	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	N/A
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	Р

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Clause	Requirement + Test	Result - Remark	Verdic
F.3.1	Equipment marking locations	The required marking is located on the product is easily visible.	Ρ
F.3.2	Equipment identification markings	See copy of marking plate.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate.	
F.3.2.2	Model identification:	See page 2 for details.	
F.3.3	Equipment rating markings	See the following details.	Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains	北讯检测	P
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	
F.3.3.4	Rated voltage:	See copy of marking plate.	
F.3.3.5	Rated frequency:		
F.3.3.6	Rated current or rated power:	See copy of marking plate.	
F.3.3.7	Equipment with multiple supply connections	Only one mains supply connection provided.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	See below.	Р
F.3.5.1	Mains appliance outlet and socket-outlet markings	No such devices on the equipment	N/A
F.3.5.2	Switch position identification marking:	No switch used.	N/A
F.3.5.3	Replacement fuse identification and rating markings	No such component used.	N/A
	Instructional safeguards for neutral fuse:		N/A
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Neutral conductor terminal	See below.	N/A
F.3.5.6	Terminal marking location	Class III equipment	N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I equipment	- mtal	N/A
F.3.6.1.1	Protective earthing conductor terminal:	ST LCS Test	N/A
F.3.6.1.2	Protective bonding conductor terminals:	199	N/A
F.3.6.2	Equipment class marking:		N/A
F.3.6.3	Functional earthing terminal marking		N/A
F.3.7	Equipment IP rating marking:	IPX0.	
F.3.8	External power supply output marking:		N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р



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Clause	Requirement + Test	Result - Remark	Verdict
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test.	Р
		The label was rubbed with	
		cloth soaked with water for 15	
		sec. And then again for 15 sec, with the cloth soaked with	
		petroleum spirit.	
		After this test there was no	
		damage to the label. The marking on the label did not	
		fade. There was no curling	- 112
	a检测股Di	and lifting of the label edge.	BET
	STesting L	After each test, the marking	n9
		remained legible.	
F.4	Instructions	Ι	P
	a).Information prior to installation and initial use		Р
	b).Equipment for use in locations where children not likely to be present		N/A
	c). Instructions for installation and interconnection		Р
	 d). Equipment intended for use only in restricted access area 		N/A
ar th	e). Equipment intended to be fastened in place	an th	N/A
Lift the juins La	f). Instructions for audio equipment terminals	till the wing Lab	N/A
LCSTESS	g). Protective earthing used as a safeguard	LCSTES	N/A
	h) Protective conductor current exceeding ES2 limits		N/A
	i). Graphic symbols used on equipment		Р
	 j). Permanently connected equipment not provided with all-pole mains switch 		N/A
	 k) Replaceable components or modules providing safeguard function 		N/A
	I). Equipment containing insulating liquid		N/A
	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards	+ 讯检测	N/A
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General	No relay used.	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance		N/A
G.2	Relays		N/A
G.2.1	Requirements		N/A
G.2.2	Overload test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-offs provided within the equipment.	N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
Ţ	Thermal cut-outs tested as part of the equipment as indicated in c)	立 讯检测	N/A
G.3.1.2	Test method and compliance	LCS 1-	N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	No PTC thermistor used.	N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	立讯检测股份	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	LOSTESU	N/A
G.3.5.2	Single faults conditions		N/A
G.4	Connectors		N/A
G.4.1	Spacings		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		N/A
G.5	Wound components		N/A
G.5.1	Wire insulation in wound components	上田位刊	N/A
G.5.1.2	Protection against mechanical stress	LCS Test	N/A
G.5.2	Endurance test	Not applied for.	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Test time (days per cycle)		
	Test temperature (°C)		_
G.5.2.3	Wound components supplied from the mains		N/A
G.5.2.4	No insulation breakdown		N/A

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HERE	IEC 62368-1	I iff in marshab	立讯检
Clause	Requirement + Test	Result - Remark	Verdict
G.5.3	Transformers		N/A
G.5.3.1	Compliance method:		N/A
	Position:		N/A
	Method of protection		N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings		—
G.5.3.3	Transformer overload tests		N/A
G.5.3.3.1	Test conditions	~ 和检测	N/A
G.5.3.3.2	Winding temperatures	ST LCS Test	N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW	No such FIW	N/A
G.5.3.4.1	General		N/A
	FIW wire nominal diameter:		—
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:		N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	· · · · · · · · · · · · · · · · · · ·	N/A
G.5.3.4.5	Thermal cycling test and compliance	Tillia Lab	N/A
G.5.3.4.6	Partial discharge test	1	N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements		N/A
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test		N/A
	Test duration (days):		
G.5.4.5	Running overload test for DC motors	九讯检测	N/A
G.5.4.5.2	Tested in the unit	ST LCS Tes.	N/A
G.5.4.5.3	Alternative method		N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature:		N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
		The second se	
G.5.4.9	Series motors		N/A
	Operating voltage:		
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords	1	N/A
G.7.1	General requirements		N/A
1	Type:	拉 湖拉河	
G.7.2	Cross sectional area (mm ² or AWG):	ST LCS Test	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry	+ 讯检测版Da	N/A
G.7.5	Non-detachable cord bend protection	LCS Testing	N/A
G.7.5.1	Requirements	4	N/A
G.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, <i>D</i> (mm):		
	Radius of curvature after test (mm):		
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements	立田检测	N/A
G.7.6.2.2	Test with 8 mm strand	ST LOS Test	N/A
G.8	Varistors		N/A
G.8.1	General requirements		N/A
G.8.2	Safeguards against fire		N/A
G.8.2.1	General		N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test		N/A
G.9	Integrated circuit (IC) current limiters		N/A



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HAMME	IEC 62368-1	ti A the Man Lab	THE
Clause	Requirement + Test	Result - Remark	Verdic
G.9.1	Requirements		N/A
	IC limiter output current (max. 5A):		
	Manufacturers' defined drift		
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
G.10	Resistors		N/A
G.10.1	General		N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test	ST LCS Test	N/A
G.10.4	Voltage surge test	Lee .	N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers	一言	N/A
Lift MEL Main La	Optocouplers comply with IEC 60747-5-5 with specifics	立研(AL ANIA Lab LCS Testing Lab	N/A
	Type test voltage V _{ini,a} :		—
	Routine test voltage, V _{ini, b} :		
G.13	Printed boards		Р
G.13.1	General requirements	See the following details.	Р
G.13.2	Uncoated printed boards	The insulation between conductors on the outer surfaces of an uncoated printed board complied with the minimum clearance and creepage requirements	P
G.13.3	Coated printed boards	No coated printed board or multilayer board applied for within the equipment.	N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs)		—
G.13.6	Tests on coated printed boards		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals	1	N/A
G.14.1	Requirements:	No coating on component terminals considered to affect creepage or clearances.	N/A
G.15	Pressurized liquid filled components		N/A
G.15.1	Requirements	No such device provided within the equipment.	N/A
G.15.2	Test methods and compliance	UST LAND	N/A
G.15.2.1	Hydrostatic pressure test	The second	N/A
G.15.2.2	Creep resistance test		N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test		N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	or th	N/A
G.16.1	Condition for fault tested is not required	till the ming Lab	N/A
CS Test	ICX with associated circuitry tested in equipment	LCSTE	N/A
	ICX tested separately		N/A
G.16.2	Tests		N/A
	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test :		—
	Mains voltage that impulses to be superimposed on		—
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test		_
G.16.3	Capacitor discharge test:	1.47	N/A
н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz):		—
H.3.1.2	Voltage (V)		



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E HAL MEINS	IEC 62368-1	五正讯馆
Clause	Requirement + Test Result - Remark	Verdict
H.3.1.4	Single fault current (mA):	
H.3.2	Tripping device and monitoring voltage	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	N/A
H.3.2.2	Tripping device	N/A
H.3.2.3	Monitoring voltage (V)	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION	N/A
J.1	General	N/A
1 ST	Winding wire insulation	
	Solid round winding wire, diameter (mm):	N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm ²):	N/A
J.2/J.3	Tests and Manufacturing	
К	SAFETY INTERLOCKS	N/A
K.1	General requirements	N/A
	Instructional safeguard	N/A
K.2	Components of safety interlock safeguard mechanism	N/A
K.3	Inadvertent change of operating mode	
K.4	Interlock safeguard override	N/A
K.5	Fail-safe	N/A
K.5.1	Under single fault condition	N/A
K.6	Mechanically operated safety interlocks	N/A
K.6.1	Endurance requirement	N/A
K.6.2	Test method and compliance:	N/A
K.7	Interlock circuit isolation	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	N/A
	In circuit connected to mains, separation distance for contact gaps (mm)	N/A
	In circuit isolated from mains, separation distance for contact gaps (mm)	N/A
	Electric strength test before and after the test of K.7.2	N/A
K.7.2	Overload test, Current (A)	N/A
K.7.3	Endurance test	N/A
K.7.4	Electric strength test	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single-phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
	Instructional safeguard:		N/A
М	EQUIPMENT CONTAINING BATTERIES AND THE	IR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Batteries and their cells comply with relevant IEC standards:		Р
M.3	Protection circuits for batteries provided within the equipment		Р
M.3.1	Requirements		Р
M.3.2	Test method		Р
	Overcharging of a rechargeable battery	(See table B.4 and table Annex M)	Р
	Excessive discharging	(See table B.4 and table Annex M)	Р
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance	(See appended table M.3)	Р
M.4	Additional safeguards for equipment containing battery	a portable secondary lithium	Р
M.4.1	General		Р
M.4.2	Charging safeguards	The root	Р
M.4.2.1	Requirements		Р
M.4.2.2	Compliance:	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:		Р
M.4.4	Drop test of equipment containing a secondary lithium battery		Р
M.4.4.2	Preparation and procedure for the drop test		Р



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Clause	IEC 62368-1 Requirement + Test	Result - Remark	Verdict
		Result - Remark	Verdict
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		Р
M.4.4.4	Check of the charge/discharge function		Р
M.4.4.5	Charge / discharge cycle test		Р
M.4.4.6	Compliance		Р
М.5	Risk of burn due to short-circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Test method and compliance		N/A
М.6	Safeguards against short-circuits		Р
M.6.1	External and internal faults	Internal fault testing had been conducted on the cell as part of compliance with IEC62133- 2: 2017	Р
M.6.2	Compliance		Р
M.7	Risk of explosion from lead acid and NiCd batte	ries	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	Calculated hydrogen generation rate		N/A
M.7.2	Test method and compliance		N/A
田检测股竹	Minimum air flow rate, Q (m ³ /h):	加坡测版切	N/A
M.7.3	Ventilation tests	I CS Testing	N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%)		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate:		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%)		N/A
M.7.4	Marking:		N/A
M.8	Protection against internal ignition from externa with aqueous electrolyte	I spark sources of batteries	N/A
M.8.1	General		N/A
M.8.2	Test method		N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):		
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance d (mm):		
M.9	Preventing electrolyte spillage	1	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	in
M.9.1	Protection from electrolyte spillage		N/A]
M.9.2	Tray for preventing electrolyte spillage		N/A	
M.10	Instructions to prevent reasonably foreseeable misuse	Mentioned in user manual.	Р	
	Instructional safeguard		Р	
N	ELECTROCHEMICAL POTENTIALS			
	Material(s) used			
0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A	
	Value of X (mm)		_	
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJEC	TS	N/A	
P.1	General	No PS3 circuits	N/A	
P.2	Safeguards against entry or consequences of e	entry of a foreign object	N/A	
P.2.1	General		N/A	
P.2.2	Safeguards against entry of a foreign object		N/A	
	Location and Dimensions (mm)			
P.2.3	Safeguards against the consequences of entry of a foreign object	1	N/A	
P.2.3.1	Safeguard requirements		N/A	NP
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment		N/A	(in
	Transportable equipment with metalized plastic parts		N/A	
P.2.3.2	Consequence of entry test		N/A	
P.3	Safeguards against spillage of internal liquids		N/A	
P.3.1	General		N/A	
P.3.2	Determination of spillage consequences		N/A	
P.3.3	Spillage safeguards		N/A	
P.3.4	Compliance		N/A	
P.4	Metallized coatings and adhesives securing pa	rts	N/A	
P.4.1	General		N/A	
P.4.2	Tests		N/A	1
	Conditioning, T _C (°C)			
	Duration (weeks)		—	
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р	1
Q.1	Limited power sources		Р	1
Q.1.1	Requirements		Р	

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	IEC 62368-1	- int
Clause	Requirement + Test Result - Remark	Verdic
	a) Inherently limited output	N/A
	b) Impedance limited output	Р
	c) Regulating network limited output	N/A
	d) Overcurrent protective device limited output	N/A
	e) IC current limiter complying with G.9	N/A
Q.1.2	Test method and compliance:	Р
	Current rating of overcurrent protective device (A)	N/A
Q.2	Test for external circuits – paired conductor cable	N/A
	Maximum output current (A)	N/A
	Current limiting method	
R	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General	N/A
R.2	Test setup	N/A
	Overcurrent protective device for test:	
R.3	Test method	N/A
	Cord/cable used for test	
R.4	Compliance	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipmen where the steady state power does not exceed 4 000 W	it N/A
	Samples, material	
	Wall thickness (mm)	
	Conditioning (°C)	
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	- Material not consumed completely	N/A
	- Material extinguishes within 30s	N/A
	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
	Samples, material	
	Wall thickness (mm)	
	Conditioning (°C)	

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Clause	Requirement + Test	Result - Remark	Verdict
S.3.2	Test method and compliance		N/A
	Mounting of samples		
	Wall thickness (mm)		
S.4	Flammability classification of materials	See Table 4.1.2 only.	Р
S.5	Flammability test for fire enclosure materials of power exceeding 4 000 W	equipment with a steady state	N/A
	Samples, material		
	Wall thickness (mm)		
	Conditioning (°C)		
т	MECHANICAL STRENGTH TESTS		Р
T.1	General		Р
T.2	Steady force test, 10 N:		N/A
Т.3	Steady force test, 30 N:		N/A
Т.4	Steady force test, 100 N:	(See appended table T.4)	Р
Т.5	Steady force test, 250 N:		N/A
Т.6	Enclosure impact test		N/A
	Fall test		N/A
	Swing test		N/A
Т.7	Drop test:	(See appended table T.7)	Р
Т.8	Stress relief test:	(See appended table T.8)	Р
Т.9	Glass Impact Test:		N/A
T.10	Glass fragmentation test		N/A
	Number of particles counted:		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TU AGAINST THE EFFECTS OF IMPLOSION	IBES (CRT) AND PROTECTION	N/A
U.1	General		N/A
	Instructional safeguard:		N/A
U.2	Test method and compliance for non-intrinsically	protected CRTs	N/A
U.3	Protective screen		N/A
v	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment		N/A
V.1.1	General		N/A





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Clause	Requirement + Test	Result - Remark	Verdic
V.1.2	Surfaces and openings tested with jointed test probes		N/A
V.1.3	Openings tested with straight unjointed test probes		N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A
V.1.5	Slot openings tested with wedge probe		N/A
V.1.6	Terminals tested with rigid test wire		N/A
V.2	Accessible part criterion		N/A
x	ALTERNATIVE METHOD FOR DETERMINING CLE IN CIRCUITS CONNECTED TO AN AC MAINS NOT (300 V RMS)		N/A
	Clearance:		N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOC	R ENCLOSURES	N/A
Y.1	General		N/A
Y.2	Resistance to UV radiation		N/A
Y.3	Resistance to corrosion		N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by		N/A
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure:		N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets		N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests		N/A
	Alternative test methods:		N/A
Y.4.4	Compression test		N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means		N/A
Y.5	Protection of equipment within an outdoor enclose	sure	N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3		N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A
Y.6.2	Impact test	:	N/A
	田檢測股份		田校测服的









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5.2	TABLE: Classification of electrical energy sources						
Supply Voltage	Location (e.g.	Test conditions		P	arameters		ES Class
Voltage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	
5Vdc Max.	Internal circuits	Normal	5Vdc Max	THINK Test	ng Lab	IST CS Testi	ES1
4.2Vdc	The EUT is designed to be supplied by 4.2Vdc Battery	Normal	4.2Vdc			<u>.</u>	ES1

1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.

2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

5.4.1.8	5.4.1.8 TABLE: Working voltage measurement							
Location	·	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comm	ents		
Supplemer	ntary information:	·	·	•				

5.4.1.10.2	5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method			:	ISO 306 / B50		
Object/ Part No./Material Ma		Manufacturer/trademark		Thickness (mm)	T softening (°C	
Supplemen	tary information:					

5.4.1.10.3	4.1.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed impression diameter (mm)				≤ 2 m	m Los Testi			
Object/Part No./Material		Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)		ression ter (mm)	
Supplement	ary information:				<u>.</u>			

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance									N/A
Clearance (creepage di (cr) at/of/bet	stance	Up (V)	U _{rms} (V)	Freq ¹⁾ (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)





1) Only for frequency above 30 kHz

2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)

5.4.4.2	TABLE: Minimun	n distance through insu	lation	NS 1	LYNA CS Te	N/A
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation	Required DTI (mm)	Mea	sured DTI (mm)
Suppleme	ntary information:			•	•	

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz						
Insulation m	naterial	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
	Lea res re		Tea res		19	LCS	
Supplement	ary information:						

5.4.9	TABLE: Electric strength tests			N/A
Test voltage	applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
	检测股份		股份	加拉测度分
Supplement	ary information:	LCS Testi	ng L	LCS Testing L

5.5.2.2	TABLE:	Stored discharge o	on capacitors				N/A
Location		Supply voltage (V)	Operating and fault condition ¹⁾	Switch position	Measured voltage (Vpk)	E	ES Class
Supplementary information:							
X-capacitor:	s installed	for testing:					
bleeding	resistor r	ating:					
ICX:							
1) Normal of	operating	condition (e.g., norm	al operation, or open	fuse), SC= shor	t circuit, OC= c	ppe	n circuit

5.6.6 TABLE: I	ABLE: Resistance of protective conductors and terminations									
Location	Test current (A)	Duration (min)	Voltage drop (V)		sistance (Ω)					
其訳检测版 Lab	工 讯 检测 ba ab	THAT	·· - 1	识检测	ing Lab					
Supplementary information	ation:	Too ,	-194	rce to						

5.7.4 TABLE: Unearthed accessible parts



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Location	Operating and fault conditions	Supply Voltage (V)	I	ES		
			Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	class
		ng (f)		an th		NG (1)
Supplementary info		pen circuit	LCS Test	ing Lab	立讯在Mark	ing Lab

5.7.5	TABLE: Earthed access	ible conductive part			N/A
Supply volta	age (V):				
Phase(s)	:	[] Single Phase; [] Three F	[]Wye		
Power Distr	ibution System::				
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comm	ent
Supplement	tary Information:				

5.8	TABLE:	Backfeed sa	afeguard in battery b	backed up s	upplies		N/A
Location		Supply voltage (V)	Operating and fault condition			Touch current (A)	ES Class
	检测股份		日本語		THIN BE (S)	ta	动服的
Supplement Abbreviation			C= open circuit	Les Les	restino.	LCST	estina

6.2.2	ТА	BLE: Power source ci	rcuit classifica	tions (For ch	narging box)		Р	
Location		Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class	
Internal circuit		Normal condition		则股份	<100W	5s	PS2	
USB Output		Normal condition	4.72	2.56	12.08	3s	PS1	
USB Output		R6 SC	0	0	0	3s	PS1	
Battery		Normal condition	3.51	6.25	21.94	5s	PS2	
Battery		C2 SC	0	0	0	3s	PS1	
Supplementary information:								
Abbreviatior	n: SC	C= short circuit; OC= o	oen circuit					

1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.

6.2.3.1	TABLE: Determi	nation of Arcing PIS	LCS Testim	St LCs	N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No



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6.2.3.2	TABLE: Determi	nation of resistive PIS					N/A
Location Ope		Operating and fault condit	perating and fault condition Dissipate				cing PIS? ′es / No
			-192-1		- 194	.00	
Supplemen	ntary information:						
Abbreviatio	on: SC= short circui	t; OC= open circuit					

8.5.5 **TABLE: High pressure lamp** N/A Explosion method Longest axis of Particle found Lamp manufacturer Lamp type glass particle beyond 1 m (mm) Yes / No 1 ------Supplementary information: 9.6 TABLE: Temperature measurements for wireless power transmitters N/A Supply voltage (V) Max. transmit power of transmitter (W): w/o receiver and with receiver and with receiver and at with receiver and at distance of 2 mm distance of 5 mm direct contact direct contact Object Ambient Object Ambient Object Ambient Object Ambient Foreign objects (°C) (°C) (°C) (°C) $(^{\circ}C)$ $(^{\circ}C)$ (°C) (°C)

--



Supplementary information:

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5.4.1.4, 9.3 B.2.6	3, B.1.5,	TABLE: Temperature	measurements		Р
	Supply vo	Itage (V):	5Vd.c. charging	4.2Vd.c. discharging	
	Ambient T _{min} (°C):		古讯检测股份	tinte测股的	
	Ambient T	- max (°C):	LCS Testing	ST LOS TEST	
	Tma (°C)	:			
Maximum	measured to	emperature T of part/at:	Т	(°C)	Allowe d T _{max} (°C)
PCB near	U1		60.2	55.7	130
L1 body			56.3	52.1	130
Battery su	rface	~ 测服份	42.6	40.5	Ref.
Enclosure inside near U1		40.3	37.6	75	
Enclosure	outside nea	r U1	38.6	35.8	75
Ambient	Ambient		25.0 25.0		





Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulat ion class
	中市位利用	Lab		R检测 Bgff		市市位利	Bth nLab
IST LOS Testino	LCS Testin		AST U	STestino]	ST LCS Test	

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)

B.2.5 1	ABLE: In	put test						Р		
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/s	tatus		
5Vdc	0.92	R检测程的	4.60	立田榆河	服份 Ing Lab		Charging mode (Micro input)	only:,		
4.2Vdc	1.52		6.384	Les		1	Discharging mod (Load USB Out) 5V===1A)			
Supplem	Supplementary information:									

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

B.3, B.4	TABLE: Abnor	mal operatin	g and fau	It conditio	n tests		Р
Ambient ten	nperature T _{amb} (°C)			: See bel	ow	
Power source	ce for EUT: Mar	nufacturer, mo	odel/type,	outputrating	TI ATE Maing La	b IST TAKE	
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	I
Battery disc	harging:					÷	
USB Output	OL	4.2Vdc	7hrs	一		Max. load to 2.56 A, exceed it unit shut do hazardous, no dama Batterty surface: 42.2 Enclosure outside ne 36.9°C; Ambient: 25.0°C;	own, no ge. 2°C
Empty batte	ry charge and v	vorking norma	ally	CS Testiny	I	USA LOS Testing	
U1 Pin 2-10		5Vdc	10mins			Input current: 0.001A Unit shut down imme recoverable. After tes damage, no hazard.	diately,
C2	SC	5Vdc	10mins			Input current: 0.001A Unit shut down imme recoverable. After tes damage, no hazard.	diately,
Battery (D16 SC)	OC	5Vdc	7hrs	-	立讯检测限行 LCS Testing La	Max continuous char current was 2.10A. T product worked as no No chemicals leak, e molten metal emissio expulsion observed.	he ormal. xplosion,





R5	SC	4.2Vdc	10mins			Battery discharging current: 0.001A. Unit shut down, recoverable. After test, no damage, no hazard.
U1 Pin 1-5	SC	4.2Vdc	10mins		立用检测服的 LCS Testing Lat	Battery discharging current: 0.001A. Unit shut down, recoverable. After test, no damage, no hazard.
Battery	SC	4.2Vdc	7hrs		-	Unit cannot be worked as normally, recoverable. After test, no damage, no hazard.
Battery (B-~P- SC)	ED	4.2Vdc	7hrs	市ででにある		Max continuous discharging current was1.89A. The product worked as normal. No chemicals leak, explosion, molten metal emission or expulsion observed.
USB Output	SC	4.2Vdc	10mins	CP		Battery discharging current: 0.001A. Unit shut down, recoverable. After test, no damage, no hazard.

1) SC: Short-circuited; OC: Over-charged; ED: Excessive-discharged。 OL-Overload

2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during

abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.

M.3	TABLE: Pr	otection circu	its f	or batterie	es provid	ed v	vithin	the equ	uipment		Р
Is it possible	to install the	battery in a rev	vers	e polarity p	osition?	:	No				
			Chargir								
Equipment S	pecification		Vo	oltage (V)					Current (A)		
			5						1		
			Battery specification								
		Non-recharge	able	e batteries			Rech	argeab	e batteries		
		Discharging	Unintentional					Discharging		Reverse	
Manufacto	urer/type			harging Irrent (A)	Voltage	(V)	Curr	ent (A)	current (A)		harging Irrent (A)
Dongguan PI Energy Co., I 606090					4.2			4A	4A		
Note: The tes	ts of M.3.2 a	re applicable o	nly v	when above	e appropria	ate c	data is	not ava	ilable.		
Specified bat	tery tempera	ture (°C)		A.148		:	15-4	0			
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent (A)	Voltag (V)	e Obse	erva	tion
	Normal	Charge moo	de	7h	42.6	1	.65	3.7	The produ as normal chemicals explosion,	. No	o ak,





				-			
							metal emission or expulsion observed.
D16	SC	Charge mode	7h . ፲	44.0	2.10	3.7	The product worked as normal. No chemicals leak, explosion, molten metal emission or expulsion observed.
	Normal	Discharge mode	7h	40.5	1.42	4.2	The product worked as normal. No chemicals leak, explosion, molten metal emission or expulsion observed.
B-~P-	SC	Discharge mode	7h	42.1	1.89	4.2	The product worked as normal. No chemicals leak, explosion, molten metal emission or expulsion observed.

Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.

TABLE: battery	Charging sa	feguards for	equipment co	ontaining a	secondary lithium	P
pecified cl	harging voltag	e (V)		: 4.2	IST LOS TE	
pecified cl	harging currer	nt (A)		: 5	5	
cified cha	rging tempera	ture (°C)		: 40		
cified char	rging temperat	ture (°C)		: 15		
Battery manufacturer/type		Measurement			Observatio	n
		Charging voltage (V)	Charging current (A)	Temp. (°C)		
PD New 5., LTD. 5090	Normal	3.7	0	44.3°C	decrease to 0A who	en
	Normal	3.7	0.55	5°C		when
	battery pecified cl pecified cha cified cha cified cha er/type PD New p., LTD.	battery pecified charging voltag pecified charging curren cified charging temperat cified charging temperat cified charging temperat cified charging temperat operating and fault condition PD New b., LTD. 5090	battery pecified charging voltage (V) pecified charging current (A) cified charging temperature (°C) cr/type Operating and fault condition PD New Normal or, LTD. 3.7	battery pecified charging voltage (V) pecified charging current (A) cified charging temperature (°C) condition Measurement Charging voltage (V) Charging current (A) PD New of the second s	batterypecified charging voltage (V)4.2pecified charging current (A)5cified charging temperature (°C)40cified charging temperature (°C)15cified charging temperature (°C)15er/typeOperating and fault conditionMeasurementconditionCharging voltage (V)Temp. (°C)PD New of the period3.7044.3°Coperation3.7044.3°C	pecified charging voltage (V)

maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature

Q.1	TABLE: Circuits inte	ended for inte	erconnectio	n with building wiring	(LPS)	Р
Output	Condition	U _{oc} (V)	Time (s)	I _{sc} (A)	S (VA	\)



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Report No.: LCSA080822109S

Circuit				Meas.	Limit	Meas.	Limit
USB Output	Normal condition	5.05	5	2.56	8	12.08	100
USB Output	R6 SC	0	3	0	8	0	100
Battery	Normal condition	4.20	5	6.25	8	21.94	100
Battery	C2 SC	0	3 🕥	0	8	0	100
Supplementa	ary Information:						
Abbreviation	SC= short circuit						

T.2, T.3, T.4, T.5	TABLI	E: Steady force test					Р
Part/Locatio	n	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Enclosu	ure	plastic	1.5		100	5 - 5	No damage, no hazardous
Supplement	ary info	rmation:					

T.6, T.9	TABLE: Imp	act test				N/A
Location/pai	ť	Material	Thickness (mm)	Height (mm)	Observatio	n
Supplement	ary information	1: 一位测程的				

ST LCS Tes

T.7	TABLE: Dro	p test				Р
Location/pai	rt	Material	Thickness (mm)	Height (mm)	Observatio	on
Enc	losure	plastic	1.5	1000	No damage, no h	azardous
Supplement	ary information	n:				

T.8	TABLE	: Stress relief te	est	~ 测股份		一個股份	Р
Location/Pa	rt	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	vation
Enclos	ure	plastic	1.5	70	7.0	No dama hazar	
Supplement	ary infor	mation:					

Х	TABLE: Alterna	tive method for determining	g minimum clearance	s distances	N/A
Clearance d between:	istanced	Peak of working voltage (V)	Required cl (mm)	Measure (mm	
tiil	检测版Lab	北州检测 版	北讯检·IIII He Lab	T.H.	MB2 13
Supplementa	ary information:	LCS LCS LCS	ST LCS TOT	LCS TO	





4.1.2	TABLE:	List of critical com	ponents			Р
Object / No.	/ part	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Plastic enclosu	ure	SABIC INNOVATIVE PLASTICS US L L C	C6200	V-0, 75°C, min. thickness: 1.5mm	UL94, UL 746C	UL E121562
PCB		Bster Enterprise Ltd	Bster-4M	V-0, 130°C	UL796 UL 94	UL E464631
-Alt		Interchangeable	Interchangeable	V-0, 130°C	UL796 UL 94	UL
Battery	,	Dongguan PD New Energy Co., LTD.	PD 606090	3.7V,4000mAh	IEC 62133:2012	NCT Report No.:NCT190 03720I1-1
Lead w	rires	DONGGUAN WENCHANG ELECTRONIC CO LTD	3239	Min 300Vac, min 85°C, min 24AWG	UL 758	UL
-Alt	Ţ	Interchangeable	Interchangeable	Min 300Vac, min 85°C, min 24AWG	UL 758	UL
Protect	IC(U1)	Shenzhen Meilai innovation Co.Ltd	DW01	Overcharge Detection Voltage: 4.28± 0.05V, Overcharge Detection Voltage: 2.4± 0.075V		





ELCS Testing Lab











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STING

Attachment No.1

	IF	C62368 1E - ATTACH	MENT	
Clause	Requirement + Test		Result - Remark	Verdict
(Audio/	EUROPEAN GROUP		I REPORT IATIONAL DIFFERENCES equipment - Part 1: Safety requiren	则股份 ting Lab
Differences	according to E	N IEC 62368-1:2020+A	11:2020	
Attachment	Form No E	U_GD_IEC62368_1E		
Attachment	Originator:	IL(Demko)		
Master Atta	chment 2	021-02-04		
	neva, Switzerland. All righ	ts reserved.	ertification of Electrical Equipm	ent
	CENELEC COMMON MC	. ,		
	IEC 62368-1:2020+A11:2 those in the paragraph be	020. All other clause nu low, refers to IEC 6236 es, tables, figures and a	grey are clause references in EN imbers in that column, except for 8-1:2018. Innexes which are additional to	
	Add the following annexes			
	Annex ZA (normative) with their co	Normative reference prresponding European	es to international publications publications	
	Annex ZB (normative)	Special national con	ditions	N N
	Annex ZC (informative)	A-deviations		
	Annex ZD (informative) cords	IEC and CENELEC	code designations for flexible	
1	Modification to Clause 3	· .		
3.3.19	Sound exposure			Р
	Replace 3.3.19 of IEC 62	368-1 with the following	definitions:	
	List Testing Lab	LCS Testing Lab	LCS Testing Lab	







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立讯检测服份

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Attachment No.1

	IEC62368_1E - ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdic
3.3.19.1	momentary exposure level, MEL		P
	metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.	新检测版份 cs Testing Lab LCS Tes	的股份 Eng Lab
	Note 1 to entry: MEL is measured as A-weighted levels in dB.		
	Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.		
3.3.19.3	sound exposure, <i>E</i>		Р
	A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa ² s.	Los Testing Lab	
	$E = \int_{0}^{T} p(t)^2 \mathrm{d}t$		
3.3.19.4	sound exposure level, SEL		Р
	logarithmic measure of sound exposure relative to a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans.	用检测服份	服份
	Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB.	LA TESTING Lob	Aua
	(F)		

$$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{\mathsf{dB}}$$

Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information. 3.3.19.5 digital signal level relative to full scale, dBFS

levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused Note 1 to entry: It is invalid to use dBFS for non-

r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.

2 **Modification to Clause 10**





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BC IIII

Attachment No.1

Clause	Requirement + Test	Result - Remark	Verdict

10.6	Safeguards against acoustic energy sources		Р
	Replace 10.6 of IEC 62368-1 with the following:		服份
10.6.1.1	Introduction Safeguard requirements for protection against	STesting Lab	n ^{g Lab} P
	long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person , that:		
	 is designed to allow the user to listen to audio or audiovisual content / material; and uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and has a player that can be body worn (of a size 	LCS Testing Lab	
	suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).		
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	用位制度份 Stesting Lab	版付 ng Lab
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.		
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.		
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose	10月11日	
	measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.	LCS Testing Lab	
	Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to: – professional equipment;		
	 professional equipment; NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment. 	計算機構 S Testing Lab ら Testing Lab	股份 ng Lab
∎ ₹%7∎	Shenzhen LCS Compliance Testing Laboratory Ltd.		





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Clause Requirement + Test Result - Remark Verdict - hearing aid equipment and other devices for assistive listening; - the following type of analogue personal music players: · long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and cassette player/recorder; NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies. - a player while connected to an external amplifier that does not allow the user to walk around while in use. For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply. The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply. Non-ionizing radiation from radio frequencies 10.6.1.2 Ρ in the range 0 to 300 GHz The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566. 10.6.2 Classification of devices without the capacity to estimate sound dose Ρ Р 10.6.2.1 General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output LAeq, T, measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. Shenzhen LCS Compliance Testing Laboratory Ltd. Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street,



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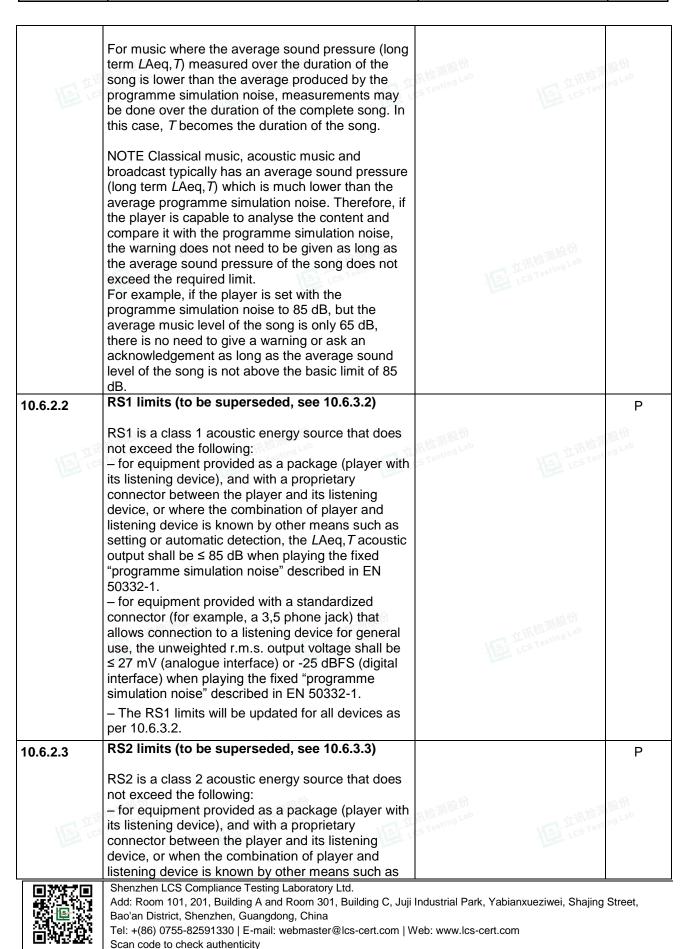


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Clause	Requirement + Test	Result - Remark	Verdict





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Attachment No.1

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Clause Requirement + Test Result - Remark Verdict

Les the	setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be \leq 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be \leq 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	R 检测股份 S Testing Lab LCS Test	股份 ng Lab
10.6.2.4	RS3 limits		N/A
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	2.21 推測股份	
10.6.3	Classification of devices (new)	LCS Testing	
10.6.3.1	General		Р
	Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.		
0.6.3.2	RS1 limits (new)		Р
	RS1 is a class 1 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be \leq 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.	R推測版US S Testing Lab LCS Test	ng Lab
	 for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. 	LCS Tosting Lab	
10.6.3.3	RS2 limits (new)		Р
	RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall	和他說服份 S Testing Lab LCS Test	限份 ng Lab
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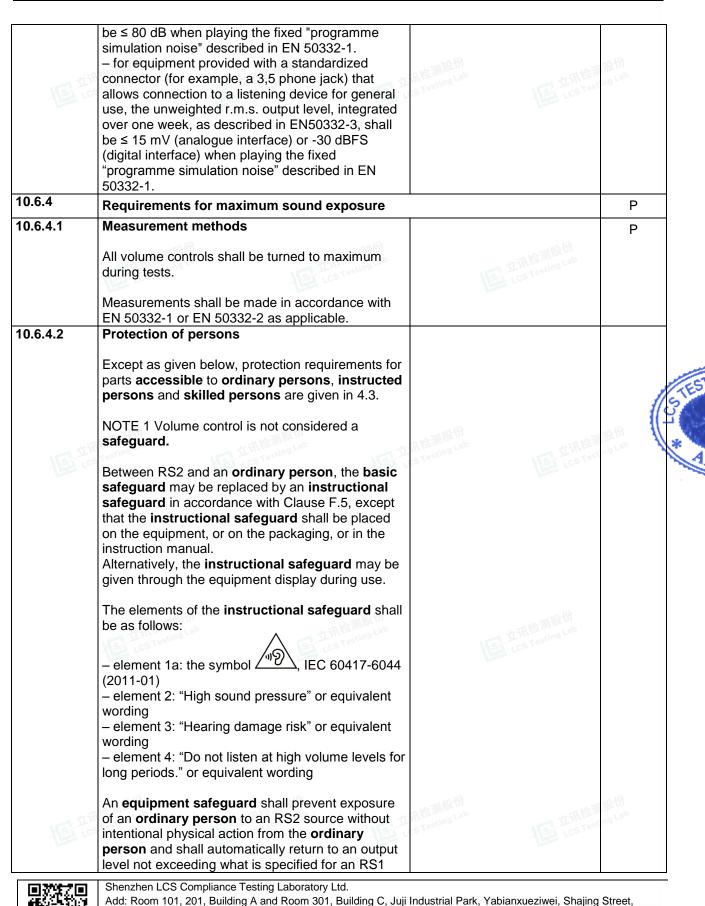


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Attachment No.1

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Clause Requirement + Test Result - Remark Verdict



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Claures	IEC62368_1E - ATTACHMI		
Clause	Requirement + Test	Result - Remark	Verdic
	source when the power is switched off.		
	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	A METWER (H IS Tosting Lab	服份 ng Lab
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	tr形态测路(f)	
	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.	LCS Testing	
	A skilled person shall not be unintentionally exposed to RS3.		
10.6.5	Requirements for dose-based systems		Р
10.6.5.1	General requirements		Р
	Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause. The manufacturer may offer optional settings to	At金利BG (新 S Testing Lab	服設 ting Lab
	allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.	Los Testing Lab	
	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	10 11 11 11 11 11 11 11 11 11 11 11 11 1	服份
10.6.5.2	Dose-based warning and requirements When a dose of 100 % CSD is reached, and at	IS Testing Len	Р
	least at every 100 % further increase of CSD, theShenzhen LCS Compliance Testing Laboratory Ltd.Add: Room 101, 201, Building A and Room 301, Building C, JujiBao'an District, Shenzhen, Guangdong, ChinaTel: +(86) 0755-82591330 E-mail: webmaster@lcs-cert.com V		g Street,

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E	device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1. The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	和检测股份 S Testing Lab LCS Test	股份 na Lab
10.6.5.3	Exposure-based requirementsWith only dose-based requirementsWith only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at.The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3.The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or	LCS Testing Lab	Ρ

Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.

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NOTE In case the source is known not to be music (or test signal), the EL may be disabled. 10.6.6 Requirements for listening devices (headphones, earphones, etc.)

10.6.6.1	Corded listening devices with analogue input	立讯检测版 ^{D3}	N/A
	With 94 dB <i>L</i> Aeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be \geq 75 mV.	LOS TESTING	
US II	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	制度份 sting Lab	股份 ng Lab
10.6.6.2	Corded listening devices with digital input	Les los	Р
	With any playing device playing the fixed "programme		
Fe1 3506-7 Fe1	Shenzhen LCS Compliance Testing Laboratory Ltd		



zhen LCS Compliance Testing Laboratory Ltd. Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com Scan code to check authenticity

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3	Modification to the whole document		
10.6.6.4	Measurement method Measurements shall be made in accordance with EN 50332-2 as applicable.	测限的 sting Lab Los Test	P Malah
10.6.6.3	sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the <i>L</i> Aeq, <i>T</i> acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS. Cordless listening devices In cordless mode, – with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and – respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and – with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the <i>L</i> Aeq, <i>T</i> acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS.	aller Lob ting Lob	P
	simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional		暖份









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A							测股份
STe	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	stingLab
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	
	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	
	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	
	Table 13						
	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	
X	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	
	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	
	8.5.4.2.3	Note	10.2.1	Note 3 and 4	10.5.3	Note 2	
			Table 39				
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
R Ma	Y.4.5	Note					测服份 stngLab
м	odification	to Clause 1		150			
A	dd the follov	ving note:					N/A
	A N aı	5.2.2.2 5.4.2.3.2.4 Table 13 5.4.10.2.1 5.5.2.1 5.6.8 8.5.4.2.3 10.6.1 Y.4.5 Modification follow NOTE Z1 The	5.2.2.2 Note 5.4.2.3.2.4 Note 2 Table 13 5.4.10.2.1 5.4.10.2.1 Note 5.5.2.1 Note 5.6.8 Note 2 8.5.4.2.3 Note 10.6.1 Note 3 Y.4.5 Note Modification to Clause 1 Add the following note: NOTE Z1 The use of certain	5.2.2.2 Note 5.4.2.3.2.2 Table 12 5.4.2.3.2.4 Note 2 5.4.2.5 Table 13 5.4.10.2.2 5.4.10.2.1 Note 5.4.10.2.2 5.5.2.1 Note 5.5.6 5.6.8 Note 2 5.7.8 8.5.4.2.3 Note 10.2.1 Table 39 10.4.1 Note 3 F.3.3.6 Y.4.5 Note 10.2.1 Note 3 Modification to Clause 1 Add the following note: NOTE Z1 The use of certain substance	5.2.2.2 Note 5.4.2.3.2.2 Table 12 Note c 5.4.2.3.2.4 Note 2 5.4.2.5 Note 2 Table 13 5.4.10.2.2 Note 5.4.10.2.2 Note 5.4.10.2.1 Note 5.4.10.2.2 Note Note 5.5.2.1 Note 5.5.6 Note Note 5.6.8 Note 2 5.7.6 Note 3 and 4 and 5 8.5.4.2.3 Note 10.2.1 Table 39 Note 3 and 4 and 5 10.8.1 Note 3 F.3.3.6 Note 3 Y.4.5 Note Interview Interview	5.2.2.2 Note 5.4.2.3.2.2 Table 12 Note c 5.4.2.3.2.4 5.4.2.3.2.4 Note 2 5.4.2.5 Note 2 5.4.5.1 Table 13 5.4.10.2.2 Note 5.4.10.2.3 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 5.6.8 Note 2 5.7.6 Note 5.7.7.1 8.5.4.2.3 Note 10.2.1 Note 3 and 4 and 5 10.5.3 10.8.1 Note 3 F.3.3.6 Note 3 Y.4.1 Y.4.5 Note Image: State 10 in the state 10 in	5.2.2.2 Note 5.4.2.3.2.2 Table 12 Note c 5.4.2.3.2.4 Note 1 and 3 5.4.2.3.2.4 Note 2 5.4.2.5 Note 2 5.4.5.1 Note Table 13 5.4.2.5 Note 2 5.4.5.1 Note 5.4.10.2.1 Note 5.4.10.2.2 Note 5.6.4.2.1 Note 2 and 3 and 4 5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4 5.6.8 Note 2 5.7.6 Note 5.7.7.1 Note 1 and Note 2 8.5.4.2.3 Note 10.2.1 Note 3 and 4 10.5.3 Note 2 8.5.4.2.3 Note 10.2.1 Note 3 and 4 10.5.3 Note 2 9.5.4.1 Note 3 Y.4.1 Note 3 Y.4.1 Note 3 10.8.4 Note 3 F.3.3.6 Note 3 Y.4.1 Note 3 Y.4.5 Note Image: 1 Image: 1 Image: 1 Image: 1 Y.4.5 Note Image: 1 Image: 1 Image: 1 Image: 1 <td< td=""></td<>

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Modification to 4.Z1



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Result - Remark Clause Requirement + Test Verdict 4.Z1 Add the following new subclause after 4.9: N/A To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. 6 Modification to 5.4.2.3.2.4 5.4.2.3.2.4 Add the following to the end of this subclause: N/A The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009. 7 Modification to 10.2.1 10.2.1 Add the following to $^{c)}$ and $^{a)}$ in table 39: N/A For additional requirements, see 10.5.1. 8 Modification to 10.5.1







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Result - Remark Clause Requirement + Test Verdict 10.5.1 Add the following after the first paragraph: N/A For RS 1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus. Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996. 9 Modification to G.7.1 G.7.1 Add the following note: N/A NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD. 10 Modification to Bibliography















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	Add the following notes	for the standards indicate	ed:	N/A
	IEC 60269-2 N IEC 60309-1 N IEC 60364 N IEC 60601-2-4 N IEC 60664-5 N IEC 61032:1997 N IEC 61508-1 N IEC 61558-2-1 N IEC 61558-2-6 N IEC 61643-1 N IEC 61643-21 N IEC 61643-311 N IEC 61643-321 N	OTE Harmonized as EN 60 OTE Harmonized as HD 60 OTE Harmonized as EN 60 OTE some parts harmonized OTE Harmonized as EN 60 OTE Harmonized as EN 60 OTE Harmonized as EN 61 OTE Harmonized as EN 61	269-2. 309-1. ed in HD 384/HD 60364 series. 601-2-4. 664-5. 032:1998 (not modified). 508-1. 558-2-1. 558-2-4. 558-2-6. 643-1. 643-21. 643-311.	加測 保持 Testilig Lab
11	ADDITION OF ANNEX	ES		
ZB	ANNEX ZB, SPECIAL I	NATIONAL CONDITIONS	; (EN)	
4.1.15	Denmark, Finland, Nor	way and Sweden		N/A
ter ter	To the end of the subcla added: Class I pluggable equi for connection to other e network shall, if safety r reliable earthing or if su are connected between and accessible parts, h that the equipment shal earthed mains socket-o	pment type A intended equipment or a elies on connection to rge suppressors the network terminals ave a marking stating be connected to an	工刊检测器份 LCS Teating Lab	用位測 足份 S Testive Lab
	be as follows: In Denmark : "Apparated en stikkontakt med jord stikproppens jord."	som giver forbindelse til ettävä suojakoskettimilla n" nå tilkoples jordet	Les Teating La	P







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4.7.3	United Kingdom		N/A
	To the end of the subclause the following is added:	会测股份	股份
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	Testing Lau LCS Testi	^{1g Lau}
5.2.2.2	Denmark		N/A
	After the 2nd paragraph add the following: A warning (marking safeguard) for high touch		
	current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	1.11111日代	
5.4.11.1	Finland and Sweden	I Mile Non Lab	N/A
and Annex G	To the end of the subclause the following is added:	- Lear Los	
	For separation of the telecommunication network from earth the following is applicable:		
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which		
	shall pass the electric strength test below, or	给那股份	设份
	 one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. 	Testing Law	ig Lan
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	157 Torting Lab	
	 passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), 		
	and		
	 is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. 	他测脸份 and Lab	股份 ng Lab
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	Testing La	19





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	 A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions: the insulation requirements are satisfied by having a capacitor classified Y3 as defined by 	高龄制度的 csrestingLab Los Test	及份 10 Lab
	EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;		
	 the additional testing shall be performed on all the test specimens as described in EN 60384- 14; 	い言語の	
	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	LCS Testing Lab	
5.5.2.1	Norway		N/A
	After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are		
	required to be rated for the applicable line-to-line voltage (230 V).		
5.5.6	Finland, Norway and Sweden	the second second	N/A
	To the end of the subclause the following is added:	新社がした。 Stesting Lab	ng Lab
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.		
5.6.1	Denmark		N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket- outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:	立派检测器的 LCS Testing Lab	
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		
5.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for pluggable equipment type A , the following is added: - the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the	14.1111月份	股份





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this being the largest rating of fuse used in the

mains plug.



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5.6.4.2.1	France		N/A
Les'	After the indent for pluggable equipment type A , the following is added: – in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.	检测股份 Testing Lab LCS Testi	设份 19 Lab
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.		N/A
5.6.8	Norway To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	LCS Testing Lab	N/A
5.7.6	Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		N/A
5.7.6.2	Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	Testing Long Long Long Long Long Long Long Lo	N/A
5.7.7.1	Norway and Sweden To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation	立派意想服好 LCs Testing Lab	N/A
	external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	检测限的 Testing Lab Los Testi	受付 18 Lab



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Clause	Requirement + Test	Result - Remark	Verdict
Les tim	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxia cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728- 11)"		調査份 m o Lab
	NOTE In Norway, due to regulation for CATV- installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway):	e Est trate and the Los Tearing Lab	
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	Lintem 服命 Corresting Lab Los Test	题份 ra Lab
	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fa medfőra risk főr brand. Főr att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".		
8.5.4.2.3	United Kingdom Add the following after the 2 nd dash bullet in 3 rd paragraph:	上 並訊检測服 tr	N/A
	An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.		







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B.3.1 and	Ireland and United Kingdom		N/A
B.4	The following is applicable:	古研 脸 测 胆 份	市职检测股份

LOS	To protect against excessive currents and short- circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met	Testing -	E Los Test	<i>1 ∂ µ</i>
G.4.2	 Denmark To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1- 	位利息份 Testing Lab		N/A
	5a or DK 1-7a Justification:	检测股份		服份 Ing Lab
IST ICS	Heavy Current Regulations, Section 6c	Testins	IST ICS Test	





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G.4.2	United Kingdom		N/A
	To the end of the subclause the following is added:	检测股份	股份 a Lab
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	Testinu.	19
G.7.1	United Kingdom		N/A
	To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	LCS Testing Lab	
1. THE	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	检测程份 Costing Lab	股份 (g Lab
G.7.1	Ireland	En res.	N/A
	To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard		
G.7.2	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	LCS Testing Lo	N/A
zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)		





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Clause	Requirement + Test	Result - Remark	Verdict

0.5.2	Germany		N/A
	The following requirement applies:	股份	
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	LCS Test	
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig,	立闭检测股份 LCS Testing Lab	









立讯检测设的 LCS Testing Lab

Attachment No.1

IEC62368_1E - ATTACHMENT

Clause	Requirement + Test	Result - Remark	Verdict

Type of flexible cord	Code de	esignations	N
	IEC	CENELEC	
PVC insulated cords			
Flat twin tinsel cord	60227 IEC 41	Н03VН-Ү	
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	
Rubber insulated cords			
Braided cord	60245 IEC 51	H03RT-F	
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
Cords having high flexibility			. 05
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	则投切 ting Lab
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	ноз₽∨4-н	
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	
Cords insulated and sheathed with halogen- free thermoplastic compounds			
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	







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上 並用检测器的 Los Testing Lab 正讯检测股份 LCS Testing Lab





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TRF No. IEC62368_1E







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