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TEST REPORT EN IEC 62368-1

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

LCSA090622052S		
2022-09-16		
74		
Shenzhen LCS Compliance Testing Laboratory Ltd.		
Mid Ocean Brands B.V.		
7/F., Kings Tower,111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong		
EN IEC 62368-1:2020+A11:2020		
Type test		
N/A		
IECEE OD-2020-F1:2020, Ed.1.3		
IEC62368_1E		
UL(US)		
Dated 2021-02-04		

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Test item description:	Solar b	bamboo powerbank	
Trade Mark(s):	N/A		
Manufacturer:	11462	8	
Model/Type reference	MO650	09	
Ratings:	Output	5V-≕1A t: 5V-≕1A y Capacity: 3.7Vdc, 4000	mAh, 14.8Wh
Responsible Testing Laboratory (as a	applicat	ole), testing procedure	and testing location(s):
Testing Laboratory:		Shenzhen LCS Complia	ance Testing Laboratory Ltd.
Testing location/ address	i i		g A and Room 301, Building C, ianxueziwei, Shajing Street,
		Bao'an District, Shenzh	en, Guangdong, China
Prepared by	:	Bao'an District, Shenzh David Ma Project Handler	en, Guangdong, China David Ma
Prepared by		David Ma	

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List of Attachments (including a total number of pages in each attachment): - Attachment No. 1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES - Attachment No. 2: Photo Documentation Summary of testing: Tests performed (name of test and test clause): Electrical safety: EN IEC 62368-1:2020+A11:2020 Summary of compliance with National Differences (List of countries addressed): Market Science (List of countries addressed): The product fulfils the requirements of EN IEC 62368-1:2020+A11:2020.

Statement concerning the uncertainty of the measurement 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:

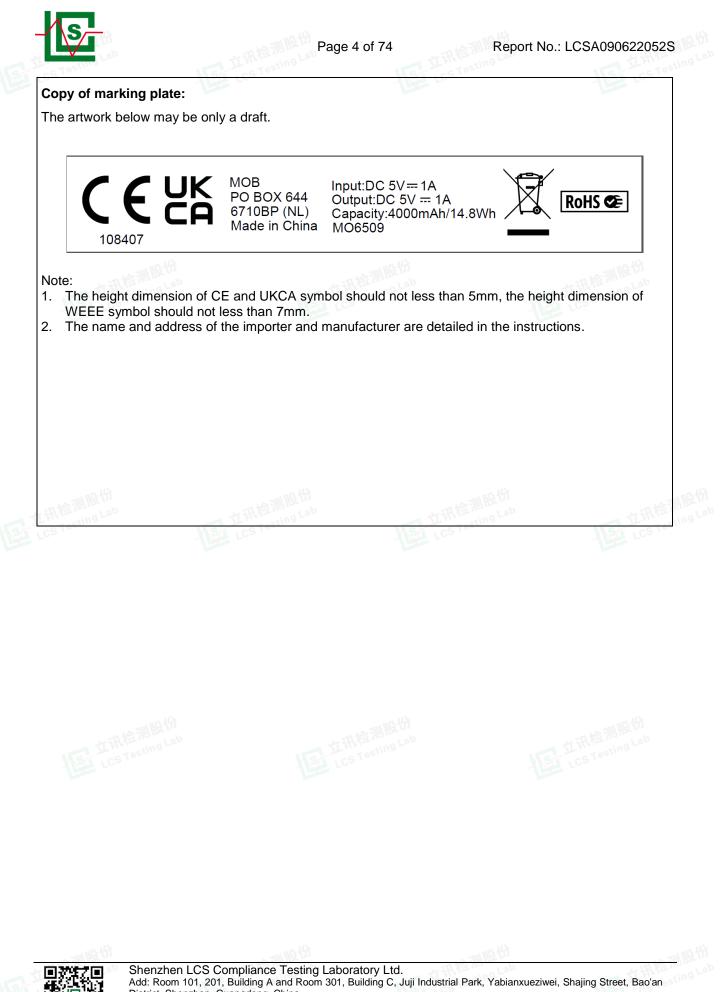
Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

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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* 100

Test item particulars:	
Product group	end product
Classification of use by	☑ Ordinary person ☑ Children likely present
	Instructed person
	🖾 Skilled person
Supply connection	AC mains DC mains
	⊠ not mains connected:
	\boxtimes ES1 \square ES2 \square ES3
Supply tolerance	□ +10%/-10%
	+20%/-15%
	□ + %/- %
Supply connection type	None pluggable equipment type A -
Supply connection – type	non-detachable supply cord
	appliance coupler
	direct plug-in
	pluggable equipment type B -
	non-detachable supply cord
	appliance coupler
	permanent connection
	mating connector
	\boxtimes other: Not directly connected to the mains
Considered current rating of protective	A;
device::	Location:buildingequipment
CS Testing	
Equipment mobility:	Movable hand-held transportable
	☐ direct plug-in ☐ stationary ☐ for building-in ☐ wall/ceiling-mounted ☐ SRME/rack-mounted
	other:
Overvoltage category (OVC):	
	□ OVC IV
	mains
Class of equipment:	🗌 Class I 🔹 🗌 Class II 🔹 Class III
	Not classified
Special installation location	\boxtimes N/A \square restricted access area
	outdoor location
Pollution degree (PD):	□ PD 1
Manufacturer's specified T _{ma} :	25 °C □ Outdoor: minimum °C
IP protection class:	⊠ IPX0 □ IP
Power systems:	 □ TN □ TT □ IT - V _{L-L}
	\square not AC mains
Altitude during operation (m)	\boxtimes 2000 m or less \square m
Altitude of test laboratory (m)	
Mass of equipment (kg):	Approx. 0.145kg





Possible test case verdicts:		
- test case does not apply to the	test object: N/A	
- test object does meet the requir	rement: P (Pass)	
- test object does not meet the re	equirement: F (Fail)	
Testing:		
Date of receipt of test item	: 2022-09-06	
Date (s) of performance of tests .	: 2022-09-06 to 2022-09-16	
General remarks:	+ iT the THE Is a Lab	古田位利田とい
"(See Enclosure #)" refers to additi "(See appended table)" refers to a t	ional information appended to the report. table appended to the report.	LCS Testing
Throughout this report a 🗌 com	nma / 🖂 point is used as the decimal sep	arator.
These marked "☆" test clauses a	are not within the scope of CNAS recogni	ion.
	ormation, product name, model, trademark a cant, and this laboratory is not responsible for	
	cant, and this laboratory is not responsible for	
report are all provided by the applic	ant, and this laboratory is not responsible for sub-clause 4.2.5 of IECEE 02: Test Certificate ation and a stating that the is (are) each factory	
report are all provided by the applic Manufacturer's Declaration per s The application for obtaining a CB includes more than one factory loca declaration from the Manufacturer s sample(s) submitted for evaluation representative of the products from has been provided	ant, and this laboratory is not responsible for sub-clause 4.2.5 of IECEE 02: Test Certificate ation and a stating that the is (are) each factory 	verifying its authenticity.
report are all provided by the applic Manufacturer's Declaration per s The application for obtaining a CB includes more than one factory loca declaration from the Manufacturer s sample(s) submitted for evaluation representative of the products from has been provided When differences exist; they sha Name and address of factory (ies	cant, and this laboratory is not responsible for cub-clause 4.2.5 of IECEE 02: Test Certificate ation and a stating that the is (are) each factory Ill be identified in the General product information in the General product in t	verifying its authenticity.
report are all provided by the applic Manufacturer's Declaration per s The application for obtaining a CB includes more than one factory loca declaration from the Manufacturer s sample(s) submitted for evaluation representative of the products from has been provided When differences exist; they sha Name and address of factory (ie: General product information and	ant, and this laboratory is not responsible for aub-clause 4.2.5 of IECEE 02: Test Certificate ation and a stating that the is (are) each factory Ill be identified in the General product informations applicant d other remarks:	verifying its authenticity.
report are all provided by the applic Manufacturer's Declaration per s The application for obtaining a CB includes more than one factory loca declaration from the Manufacturer s sample(s) submitted for evaluation representative of the products from has been provided When differences exist; they sha Name and address of factory (ie: General product information and	ant, and this laboratory is not responsible for sub-clause 4.2.5 of IECEE 02: Test Certificate ation and a stating that the is (are) each factory III be identified in the General product info is) : Same as applicant d other remarks: powerbank with solar panel used with inform	verifying its authenticity.
report are all provided by the applic Manufacturer's Declaration per s The application for obtaining a CB includes more than one factory local declaration from the Manufacturer's sample(s) submitted for evaluation representative of the products from has been provided	ant, and this laboratory is not responsible for aub-clause 4.2.5 of IECEE 02: Test Certificate ation and a stating that the is (are) each factory Ill be identified in the General product information and a statistic in the General product in the General product information and a statistic in the General product in the Ge	verifying its authenticity.





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 internal circuits	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	
PCB	PS2: <100 Watt circuit (Internal circuit)	Equipment safeguards (no ignition)	V-1 or better	N/A	
Combustible materials within equipment	PS2: <100 Watt circuit (Internal circuit)	Equipment safeguards (no ignition)	V-2 or better	N/A	
7	Injury caused by hazardous	substances	1		
Class and Energy Source	Body Part (e.g., Skilled)		Safeguards		
(e.g. Ozone)		В	S	R	
N/A	N/A	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: Mass of unit	Ordinary	N/A	N/A	N/A	
9	Thermal burn				
Class and Energy Source (e.g. TS1: Keyboard caps)	Body Part (e.g., Ordinary)		Safeguards		
		B	S NI/A	R	
TS1: Wooden Enclosure	Ordinary Radiation	N/A	N/A	N/A	
			Safeguards		
Class and Energy Source (e.g. RS1: PMP sound output)	Body Part (e.g., Ordinary)	В	Saleguarus	R	
RS1: indicator LED	Ordinary	N/A	N/A	N/A	







5

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

ES1 PS2 🖂 TS1 🛛 RS1 🛛 MS1





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Clause

Requirement + Test

IEC 62368-1 **Result - Remark**

Verdict

4	GENERAL REQUIREMENTS		Ρ
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Ρ
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 BB(f) 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	サイトになるの	N/A
4.1.8	Liquids and liquid filled components (LFC)	LCSTEN	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness		Р
4.4.3.1	General		Р
4.4.3.2	Steady force tests	(See Annex T.4)	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	I I White	N/A
	Glass impact test (1J)		N/A
	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests		N/A
4.4.3.9	Air comprising a safeguard	Considered, but no such barrier or enclosure provided	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



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Clause	Requirement + Test	Result - Remark	Verdict
			P
4.5	Explosion		
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions (see Annex M)	Р
4.5.2	No explosion during normal/abnormal operating condition		Р
	No harm by explosion during single fault conditions		P
4.6	Fixing of conductors	其所植物	ngLP
B a	Fix conductors not to defeat a safeguard	Only ES1 for internal circuits, no safeguard affected by conductor displacement.	Р
	Compliance is checked by test:	Applying a force of 10N in the most unfavourable direction.	Р
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard :	No such apparatus	N/A
4.7.3	Torque (Nm):		N/A
4.8	Equipment containing coin/button cell batteries		N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard:	LCS	N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test		N/A
4.8.4.2	Stress relief test		N/A
4.8.4.3	Battery replacement test		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	atti	N/A
VS-1	30N force test with test probe	IST CS Test	N/A
L'été	20N force test with test hook	Les to	N/A
4.9	Likelihood of fire or shock due to entry of condu	ctive object	Р
4.10	Component requirements		N/A
4.10.1	Disconnect Device		N/A
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY	Р
5.2	Classification and limits of electrical energy sources	Р



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LCSTesting	IEC 62368-1	LCSTESTIC	LCST
Clause	Requirement + Test	Result - Remark	Verdict
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
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	No such 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
LNI Resting L	Accessibility to outdoor equipment bare parts	T When the sting Lan	N/A
5.3.2.2	Contact requirements	The second se	N/A
	Test with test probe from Annex V		-
5.3.2.2 a)	Air gap – electric strength test potential (V):		N/A
5.3.2.2 b)	Air gap – distance (mm):		N/A
5.3.2.3	Compliance		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.	P
5.4.1.3	Material is non-hygroscopic	No hygroscopic material used.	P
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	Ρ
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



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Clause	Requirement + Test	Result - Remark	Verdict
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
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:	古讯检 刑	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		N/A
	Clearances in circuits connected to AC Mains, Alternative method		N/A
5.4.2.2	Procedure 1 for determining clearance		N/A
	Temporary overvoltage		
5.4.2.3	Procedure 2 for determining clearance	四 检测股份	N/A
5.4.2.3.2.2	a.c. mains transient voltage	L CS Testing	
5.4.2.3.2.3	d.c. mains transient voltage	Le la	
5.4.2.3.2.4	External circuit transient voltage		
☆ 5.4.2.3.2.5	Transient voltage determined by measurement:		
5.4.2.4	Determining the adequacy of a clearance using an electric strength test		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	工计讯标中	N/A
5.4.3.1	General	- LCS .	N/A
☆5.4.3.3	Material group:	IIIa&IIIb	
5.4.3.4	Creepage distances measurement		N/A
5.4.4	Solid insulation		N/A
5.4.4.1	General requirements		N/A
5.4.4.2	Minimum distance through insulation		N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A





Clause	Requirement + Test	Result - Remark	Verdict
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
5.4.4.6.3	Non-separable thin sheet material	No such insulation used within the EUT	N/A
I II	Number of layers (pcs):	THAT	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:	The rest	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_P , K_R , d , V_{PW} (V)		N/A
	Alternative by electric strength test, tested voltage (V), K_{R}		N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General	山市位测度的	N/A
5.4.5.2	Voltage surge test	LCS Testing	N/A
5.4.5.3	Insulation resistance (MΩ):	L.	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		N/A
5.4.8	Humidity conditioning		N/A
14	Relative humidity (%), temperature (°C), duration (h):		_
5.4.9	Electric strength test	LCS 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		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
☆ 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
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} :		
	Max increase due to ageing ΔU_{sa} :		—
5.4.11.3	Test method and compliance:		N/A
5.4.12	Insulating liquid	其语 Assing Lab	N/A
5.4.12.1	General requirements	LCS I	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		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	立 讯检测	N/A
5.5.3	Transformers	LCS -	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		N/A



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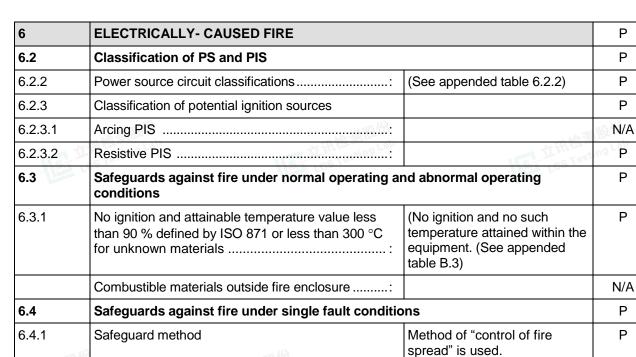


Clause	Requirement + Test	Result - Remark	Verdict
	RCD rated residual operating current (mA)		
5.6	Protective conductor	Class III equipment	N/A
5.6.2	Requirement for protective conductors		N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation	ntail	N/A
5.6.3	Requirement for protective earthing conductors	I I I I I I I I I I I I I I I I I I I	N/A
	Protective earthing conductor size (mm ²):	Les 1	
	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
	Protective bonding conductor size (mm ²):		
5.6.4.2	Protective current rating (A):	一位测股份	N/A
5.6.5	Terminals for protective conductors	I Will STesting Law	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):	L.	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		N/A
5.6.6.2	Test Method:		N/A
5.6.6.3	Resistance (Ω) or voltage drop:		N/A
5.6.7	Reliable connection of a protective earthing conductor	LCS Test	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		N/A





LCS Testins	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.7.2.2	Measurement of voltage		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):	古田检	N/A
ST L	Instructional Safeguard	ST LCS TO	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
市田检测股份	b) Equipment connected to unearthed external circuits, current (mA)	古田检测股份	N/A
5.8	Backfeed safeguard in battery backed up supplie	SLCSTEST	N/A
	Mains terminal ES	,	N/A
	Air gap (mm):		N/A





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* * *

Clause	Requirement + Test	Result - Remark	Verdic
	·		
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		Р
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		Р
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	- 讯检测	Р
6.4.5	Control of fire spread in PS2 circuits	See below	Р
6.4.5.2	Supplementary safeguards	Compliance detailed as follows: - <u>Printed board</u> : rated min. V- 0	Ρ
	中田检测胜份	 <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). 	THE T
CS Testins	IST LCS Testinis	LCS Testins	LCST
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		Р
6.4.8.2	Fire enclosure and fire barrier material properties	The V-0 material is used for the PCB	Р
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 PCB	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	The star	Р
6.4.8.3.1	Fire enclosure and fire barrier openings	No 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)		N/A
5.4.8.3.4	Bottom openings and properties		N/A
0.4.0.3.4			





5

LCS Testing	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Flammability tests for the bottom of a fire enclosure		N/A
	Instructional Safeguard:		N/A
6.4.8.3.5	Side openings and properties		N/A
	Openings dimensions (mm):		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	The V-0 material is used for the PCB	THE HP
6.4.9	Flammability of insulating liquid	LCST LCST	N/A
6.5	Internal and external wiring		Р
6.5.1	General requirements	Certified lead wires used. (se appended table 4.1.2)	e P
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	Р

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	Р
7.2	Reduction of exposure to hazardous substances	PS Tes
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		P
8.2	Mechanical energy source classifications	立 讯[@	P
8.3	Safeguards against mechanical energy sources	LCS I	N/A
8.4	Safeguards against parts with sharp edges and c	orners	Р
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





Clause	Requirement + Test	Result - Remark	Verdict
	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional safeguard:		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	古田检测	N/A
8.5.4.2.1	Protection of persons in the work cell	LCS Test	N/A
8.5.4.2.2	Access protection override		N/A
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
- All	Space between end point and nearest fixed mechanical part (mm)	- a lik	N/A
8.5.4.2.4	Endurance requirements	女讯检测 he had	N/A
LCS Testing	Mechanical system subjected to 100 000 cycles of operation	LCS Testing	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):	士讯检测	N/A
8.5.4.3.5	Compliance	LCS Test	N/A
☆8.5.5	High pressure lamps		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







Clause	Requirement + Test	Result - Remark	Verdict
8.6.2.2	Static stability test		N/A
8.6.2.3	Downward force test		N/A
8.6.3	Relocation stability		N/A
	Wheels diameter (mm):		
	Tilt test		N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test:	- 田检刊	N/A
8.7	Equipment mounted to wall, ceiling or other struc	ture	N/A
8.7.1	Mount means type:		N/A
8.7.2	Test methods		N/A
	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	和检测股份	N/A
8.8.2	Handle strength test	I CS Testing	N/A
	Number of handles	L.	_
	Force applied (N):		
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
Ĭ	Loading force applied (N):	立 洲型	N/A
8.10.4	Cart, stand or carrier impact test	LCS .	N/A
8.10.5	Mechanical stability		N/A
	Force applied (N):		
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipment	t (SRME)	N/A
8.11.1	General		N/A
8.11.2	Requirements for slide rails		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
8.11.3.3	Integrity of slide rail end stops		N/A
8.11.4	Compliance		N/A
8.12	Telescoping or rod antennas	·	N/A
	Button/ball diameter (mm)	一下校下	
VSI J	CS Testing	IST CSTES	ting -

9	THERMAL BURN INJURY		Р	
9.2	Thermal energy source classifications		Р	
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	. ar 15
9.5.1	Equipment safeguard		Р	ing La
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 LED only used for indicating classified as RS1.	RE P
1 St	Lasers	
	Lamps and lamp systems:	
	Image projectors	
	X-Ray:	
	Personal music player	
10.3	Safeguards against laser radiation	N/A
	The standard(s) equipment containing laser(s) comply:	N/A





Clause	Requirement + Test	Result - Remark	Verdict
10.4	Safeguards against optical radiation from lamps LED types)	and lamp systems (including	N/A
10.4.1	General requirements		N/A
	Instructional safeguard provided for accessible radiation level needs to exceed		N/A
	Risk group marking and location:		N/A
	Information for safe operation and installation		N/A
10.4.2	Requirements for enclosures	十讯检测	N/A
1 ST	UV radiation exposure:	LCS Test	N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation		N/A
10.5.1	Requirements		N/A
	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	14-111股份	N/A
Contesting I	Acoustic output <i>L</i> _{Aeq,T} , dB(A):	I Tresting Lab	N/A
	Unweighted RMS output voltage (mV):	The second se	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	古讯检测	N/A
10.6.5	Protection of persons	LCS Test	N/A
	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 <i>L</i> _{Aeq,T} , dB(A):		N/A
10.6.6.3	Cordless listening devices		N/A





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LCS Testing	IEC 62368-1	LCS Testins	LCSTes
Clause	Requirement + Test	Result - Remark	Verdict
	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNO CONDITION TESTS AND SINGLE FAULT CONDIT		Ρ
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions		P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	ng P
	Audio Amplifiers and equipment with audio amplifiers:		N/A
B.2.3	Supply voltage and tolerances	Rated voltage	Р
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
-nHi	Instructional safeguard	- nHA	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	(See appended table B.3)	Р
B.3.6	Reverse battery polarity	The construction of the connector makes it not likely happen to charge the battery reversely.	N/A
B.3.7	Audio amplifier abnormal operating conditions		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remain effective.	Ρ
B.4	Simulated single fault conditions	-mto.	Р
B.4.1	General	LCS Test	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)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Ρ
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards used.	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4 for faults on electronic components)	Р
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		Ρ
С	UV RADIATION	•	N/A
C.1	Protection of materials in equipment from UV rac	diation	N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test	a lik	N/A
C.2.1	Test apparatus:	+ 讯(社)測版 Lab	N/A
C.2.2	Mounting of test samples	LCSTesting	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		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAININ	NG AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	signals	N/A
Jan 1	Maximum non-clipped output power (W):	LE DISTOST	
	Rated load impedance (Ω):		—
	Open-circuit output voltage (V):		—
	Instructional safeguard:		
E.2	Audio amplifier normal operating conditions		N/A
	Audio signal source type:		
	Audio output power (W):		
	Audio output voltage (V):		_
	Rated load impedance (Ω):		





Clause	Requirement + Test	Result - Remark	Verdic
	Requirements for temperature measurement		N/A
E.3	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND I SAFEGUARDS	INSTRUCTIONAL	Р
F.1	General		Р
	Language:	English version provided and checked.	—
F.2	Letter symbols and graphical symbols	_ 力讯检 ^测	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
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The required marking is located on the product is easily visible.	Р
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		Р
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.	股份
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



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CS Testing	IEC 62368-1	LCS Testing	LCST
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
F.3.6.1.1	Protective earthing conductor terminal:		N/A
F.3.6.1.2	Protective bonding conductor terminals:	THE	N/A
F.3.6.2	Equipment class marking:	Co.	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
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. 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 and lifting of the label edge. After each test, the marking remained legible.	P LCST
F.4	Instructions	1	Р
	a).Information prior to installation and initial use		P
ISA I	 b).Equipment for use in locations where children not likely to be present 	LOS TOST	N/A
	c). Instructions for installation and interconnection		Р
	 d). Equipment intended for use only in restricted access area 		N/A
	e). Equipment intended to be fastened in place		N/A
	f). Instructions for audio equipment terminals		N/A
	g). Protective earthing used as a safeguard		N/A
	h) Protective conductor current exceeding ES2 limits		N/A
			Р





Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
G	COMPONENTS		Р
☆G.1	Switches	LCS TES	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
G.2.3	Relay controlling connectors supplying power to other equipment	and the	N/A
G.2.4	Test method and compliance	工 讲标 Wing Lab	N/A
☆G.3	Protective devices	LCSTO	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
	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Test method and compliance		N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	五立兩位為	N/A
	b) Thermal links tested as part of the equipment	Les Les	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		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions		N/A





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A set V set

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Clause	Requirement + Test	Result - Remark	Verdict	
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		N/A	
G.5.1.2	Protection against mechanical stress	Tilles	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	
G.5.3	Transformers	. m. Hit	N/A	
G.5.3.1	Transformers Compliance method	女讯检测 Da Lab	N/A	
CS Test	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		N/A	
G.5.3.3.2	Winding temperatures		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	US LUSTes	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		N/A	
G.5.3.4.6	Partial discharge test		N/A	



Clause	Requirement + Test	Result - Remark	Verdict	
G.5.3.4.7	Routine test		N/A	1
G.5.4	Motors		N/A	1
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	1
	Test duration (days):			
G.5.4.5	Running overload test for DC motors	IST CS Test	N/A	1
G.5.4.5.2	Tested in the unit		N/A	1
G.5.4.5.3	Alternative method		N/A	1
G.5.4.6	Locked-rotor overload test for DC motors		N/A	1
G.5.4.6.2	Tested in the unit		N/A	1
	Maximum Temperature:		N/A	1
G.5.4.6.3	Alternative method		N/A	1
G.5.4.7	Motors with capacitors		N/A	1
G.5.4.8	Three-phase motors		N/A	1.12
G.5.4.9	Series motors	立讯 the Ming Lab	N/A	a (i) ni
LCS I U	Operating voltage:	LCS		
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		N/A	
☆G.7.1	General requirements		N/A	
	Туре:			
G.7.2	Cross sectional area (mm ² or AWG):		N/A	
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	立用检测	N/A	
G.7.3.2	Cord strain relief	Es los	N/A	
G.7.3.2.1	Requirements		N/A	1
	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		N/A]
G.7.5	Non-detachable cord bend protection		N/A]



|--|

LCSTEST	IEC 62368-1	LCS10-	LCSTE
Clause	Requirement + Test	Result - Remark	Verdict
G.7.5.1	Requirements		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	Trans.	N/A
G.7.6.2	Stranded wire	THAT	N/A
G.7.6.2.1	Requirements	100	N/A
G.7.6.2.2	Test with 8 mm strand		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	- 112	N/A
☆G.9	Integrated circuit (IC) current limiters	古·用检测版 Lab	N/A
G.9.1	Requirements	LCSTESTIN	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	Test in the second s	N/A
G.10.4	Voltage surge test	LIST CS Test	N/A
G.10.5	Impulse test	The second	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		N/A





Clause	Requirement + Test	Result - Remark	Verdict
	Optocouplers comply with IEC 60747-5-5 with specifics		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
-24	Distance through insulation	- 1H2	N/A
田检测版	Number of insulation layers (pcs)	大田检测 BR Lab	
☆G.13.6	Tests on coated printed boards	LCSTES	N/A
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		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	IST LCS Test	N/A
G.15.2.1	Hydrostatic pressure test		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







	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
☆G.16	IC including capacitor discharge function (ICX)		N/A
G.16.1	Condition for fault tested is not required		N/A
	ICX with associated circuitry tested in equipment		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:		_
1ST	Mains voltage that impulses to be superimposed on	LCS Test	
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test		_
G.16.3	Capacitor discharge test		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	- HE C	N/A
H.3.1.1	Frequency (Hz)	立讯检测 Lab	_
H.3.1.2	Voltage (V):	LCS 10	
H.3.1.3	Cadence; time (s) and voltage (V)		
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 WITHOU INSULATION	T INTERLEAVED	N/A
J.1	General	ST LOS Tes	N/A
	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





Clause	Requirement + Test Result - Remark	Verdict
Clause		Veruic
	Instructional safeguard	N/A
K.2	Components of safety interlock safeguard mechanism	N/A
K.3	Inadvertent change of operating mode	N/A
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
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 THEIR 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	P





Clause	Requirement + Test	Result - Remark	Verdict
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.3)	Р
	Excessive discharging	(See table B.4 and table Annex M.3)	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		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	The state of the s	Р
M.4.4.2	Preparation and procedure for the drop test		Р
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
M.5	Risk of burn due to short-circuit during carrying		Р
M.5.1	Requirement		Р
M.5.2	Test method and compliance		Р
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 batter	ies	N/A
M.7.1	Ventilation preventing explosive gas concentration	No NiCd battery used	N/A







* * *

Clause	Requirement + Test	Result - Remark	Verdict
Clause			
	Calculated hydrogen generation rate		N/A
M.7.2	Test method and compliance		N/A
	Minimum air flow rate, Q (m ³ /h)		N/A
M.7.3	Ventilation tests		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 extern with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	No lead acid battery	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		N/A
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		N/A
	Material(s) used	:	
0	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	N/A
	Value of <i>X</i> (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





LCS	IEC 62368-1	LCS	SA LCS 10
Clause	Requirement + Test	Result - Remark	Verdict
	Location and Dimensions (mm):		—
P.2.3	Safeguards against the consequences of entry of a foreign object		N/A
P.2.3.1	Safeguard requirements		N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment		N/A
	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 parts	S	N/A
P.4.1	General		N/A
P.4.2	Tests		N/A
	Conditioning, T _C (°C):		—
	Duration (weeks):		
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р
Q.1	Limited power sources	(see appended table Annex Q.1)	Р
Q.1.1	Requirements		Р
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output		N/A
	d) Overcurrent protective device limited output		Р
	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)		Р
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





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Clause	Requirement + Test Result - Remark	Verdict
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 equipmer where the steady state power does not exceed 4 000 W	nt 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):	
S.3	Flammability test for the bottom of a fire enclosure	N/A
S.3.1	Mounting of samples	N/A
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.	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	N/A
	Samples, material:	_
	Wall thickness (mm)	
	Conditioning (°C):	
т	MECHANICAL STRENGTH TESTS	Р
T.1	General	P
Т.2	Steady force test, 10 N: (See appended table T.2)	N/A
T.3	Steady force test, 30 N	N/A







Clause	Requirement + Test	Result - Remark	Verdict
T.4	Steady force test, 100 N:	(See appended table T.4)	Р
T.5	Steady force test, 250 N:		N/A
Т.6	Enclosure impact test		N/A
	Fall test		N/A
	Swing test		N/A
T.7	Drop test:	(See appended table T.7)	Р
T.8	Stress relief test:		N/A
T.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	BES (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
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 OUTDOO		N/A
Y.1	General		N/A
Y.2	Resistance to UV radiation		N/A





Clouce	IEC 62368-1	Regult Remark	Vordia
Clause	Requirement + Test	Result - Remark	Verdict
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	- Per res .	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 enclos	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
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	工工用性的	N/A
Y.6.1	General		N/A
Y.6.2	Impact test:		N/A





TABLE: Classificat	ion of electrical e	nergy sou	irces			P
Location (e.g.	Test conditions		F	Parameters		ES
designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
The EUT is designed to be supplied by 5.0Vdc external supply	Normal operation	5Vdc max.				ES1
Li-ion battery	Normal operation	4.2Vdc max.	н н 		立 讯检测用	ES1
ary information:						
	Location (e.g. circuit designation) The EUT is designed to be supplied by 5.0Vdc external supply Li-ion battery	Location (e.g. circuit designation)Test conditionsThe EUT is designed to be supplied by 5.0Vdc external supplyNormal operationLi-ion batteryNormal operation	Location (e.g. circuit designation)Test conditions U (V)The EUT is designed to be supplied by 5.0Vdc external supplyNormal operation5Vdc max.Li-ion batteryNormal operation4.2Vdc max.	circuit designation)U (V)I (mA)The EUT is designed to be supplied by 5.0Vdc external supplyNormal operation5Vdc maxLi-ion batteryNormal operation4.2Vdc max	Location (e.g. circuit designation)Test conditionsParametersU (V)I (mA)Type1)The EUT is designed to be supplied by 5.0Vdc external supplyNormal operation5Vdc max Li-ion batteryNormal operation4.2Vdc max 	Location (e.g. circuit designation)Test conditionsParametersU (V)I (mA)Type1)Additional Info2)The EUT is designed to be supplied by 5.0Vdc external supplyNormal operation5Vdc max Li-ion batteryNormal operation4.2Vdc max

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	FABLE: Working voltage measurement							
Location	·	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Commo	ents		
Supplemen	tary information:							
Lift Testing L	加工资	A Lab	Í	HALLAN Lab		立讯和		
rcs, res	- LCS		165	Ce / Mar		LCS		

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

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed imp	Allowed impression diameter (mm)						
						ression eter (mm)	
Supplement	tary information:						

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance

N/A

RY





Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U _{rms} (V)	Freq ¹⁾ (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
Supplementary inform	ation:							
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: Minimum distance through insulation** N/A Distance through insulation **Required DTI** Measured DTI Peak voltage (V) Insulation (DTI) at/of (mm) (mm) 4 -------Supplementary 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)
Supplement	Supplementary information:						
TWINE Testing L	ar .	Titlesti	ngLab	Ĭ.	this testing Lab		TIME

5.4.9	TABLE: Electric strength tests			N/A
Test voltage	applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	 eakdown 'es / No
Supplement	ary information:			

5.5.2.2	5.5.2.2 TABLE: Stored discharge on capacitors						
Location		Supply voltage (V)	Operating and fault condition ¹⁾	Switch position	Measured voltage (Vpk)	ES Class	
Supplemer	ntary inform	mation:					

X-capacitors installed for testing:

[] bleeding resistor rating:

[] ICX:

Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit





5.6.6	TABLE: Resistance of protective conductors and terminations								
Location		Test current (A)	Duration (min)	Voltage drop (V)	Re	sistance (Ω)			
Supplemen	ntary information:								

5.7.4	TABLE	E: Unearthed acces	ssible parts				N/A
Location		Operating and	Supply Voltage (V)	F		ES	
		fault conditions		Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	class
Supplement	tary info	rmation:					
Abbreviatio	n: SC= :	short circuit; OC= o	pen circuit				

5.7.5	TABLE: Earthed access	ible conductive part			N/A
Supply volt	age (V)				
Phase(s):		[] Single Phase; [] Three F	[]Wye		
Power Dist	ribution System:		IT ing Lab		
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comm	ent
Supplemen	tary Information:				

5.8	TABLE:	Backfeed sa	afeguard in battery	backed up s	upplies		N/A				
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class				
	小校测服	B	-	测股份			测股份				
Supplement	tary inform	nation:									
Abbreviation	Abbreviation: SC= short circuit, OC= open circuit										

6.2.2	TABLE: Power source	e circuit classificat	ions			Р
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
Output (5V)(USB A)	Normal operation	5.06	1.75	7.03	3s	PS1
Output	C1 SC	0	0	0	3s	PS1
		115		a N		





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Battery cell	Normal	4.2	6.34	20.00	5s	PS2
Supplementary	information:					

Supplementary information:

Abbreviation: SC= short circuit; OC= open 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				N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value		cing PIS? ⁄es / No
	- H		184			10.10
Supplement	ary information:					
- 55 10	35 ⁷⁶⁵	LCS	10-	ST LCS	162	

6.2.3.2	TABLE: Determi	nation of resistive PIS		Р
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All internal circuit				Yes (declaration)
Supplement	ary information:			

Abbreviation: SC= short circuit; OC= open circuit

8.5.5	TABLE: High pro	essure lamp	LCS Tes	(III)	N/A
Lamp mai	nufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
Suppleme	entary information:		•	•	

9.6	TABLE	: Tempera	ture meas	urements	for wireles	s power t	ransmitter	S	N/A
Supply volta	age (V)			:	检测股切			-:::1位	
Max. transm	Aax. transmit power of transmitter (W):								
					eiver and contact	with receiver and at distance of 2 mm			ver and at of 5 mm
Foreign o	bjects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Supplement	ary inform	nation:							



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5.4.1.4, 9.3, B1.5, B.2.6	TABLE: Temperature measure	ments	Ą	ST LCS	162			B POSTE
	Supply voltage (V) :			See	below			—
	Ambient T _{min} (°C) :							
	Ambient T _{max} (°C) :							
	Tma (°C) :							
Maximum	n measured temperature T of part/a	at:		Measure	ed T (°C)		Allowed T _{max} (°C)
	LCSIV	a	b				<u>1</u> 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
PCB near	r U1	58.7	60.2					130
Lead wire	e of battery	35.6	36.5					80
L1 windin	g	50.2	50.4					130
Battery su	urface	35.6	35.9					Ref.
Wooden	Wooden enclosure outside near U1							107
Ambient	Ambient							
Suppleme	entary information:	•	•	•		-	•	
Note 1: T	he apparatus was submitted and	evaluated t	for maxi	mum ma	anufactu	rer's am	bient (T	ma) of

The apparatus was submitted and evaluated for maximum i 25°C.

Note 2: The temperatures were measured under the worse case normal mode defined in clause B.2.1.

a) Charge(Micro Input: 5V-, 1A, with empty battery)

							В	
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insul ation class	
b) Discharge(USB-A output: 5V , 1A, with full battery)								

B.2.5	TABLE	: Input te	st						Р	
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition	n/status	
5Vdc	LCS Tes	0.86	1.0	4.3	LCSTEST			Charged b USB port	by Micro	
4.2Vdc		1.25		5.25				Discharge USB A port(5VD0		
Supplem	Supplementary information:									

B.3, B.4

TABLE: Abnormal operating and fault condition tests

Ρ





Ambient tempera						
Power source fo			1			—
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation
Charge mode, w	ith empty ba	attery.				
U1 pin 1-2	SC	5.0Vdc	10mins			Input current: 0.01A. Unit shut down immediately, recoverable. After test, no damage, no hazard.
	SC	5.0Vdc	10mins	引检测版份 S Testing Lat		Input current: 0.01A. Unit shut down immediately, recoverable. After test, no damage, no hazard.
Battery (B-~P- SC)	oc	5.0Vdc	7hrs10 mins			Max continuous charging current was 1.72A. The product worked as normal. No chemicals leak, explosion, molten metal emission or expulsion observed.
Discharge mode	, with fully b	attery.				
U1 Pin3-5	SC	4.2Vdc	10mins		一田位测	BAT discharging current: 0.01A. Unit shut down, recoverable. After test, no damage, no hazard.
Battery	SC 1	4.2Vdc	7hrs10 mins	-	LC5 Testin	Unit cannot be worked as normally, recoverable. After test, no damage, no hazard.
Battery (B-~P- SC)	ED	4.2Vdc	7hrs12 mins			Max continuous discharging current was 1.55A. The product worked as normal. No chemicals leak, explosion, molten metal emission or expulsion observed.
Output (USB A)	SC	4.2Vdc	10mins			Unit shut down immediately. No damage, no hazards. Battery discharging current: 0A
Output	OL	4.2Vdc	2hrs40 mins	((fits: <u></u> s Testing Lat		The max output overload current is 1.6A and the Steady temperature rise was abtain. When exceed it, unit shut down and can recoverable. No damage, no hazards. Battery surface: 40.8°C Wooden enclosure





RY

Ambient: 25.0°C	LCS Test	Х	LCSTEST		LCSTEST	outside: 37.5°C
		v.		Ŀ		Ambient: 25.0°C

Supplementary information:

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	iits f	or batterie	es provid	ed v	vithin	the equ	uipment	Р	
Is it possible t	to install the	battery in a re	verse	e polarity p	osition?	:	No			_	
		Charging									
Equipment S	pecification	Voltage (V)				Current (A)					
		5 1.0									
					Battery	spec	cificati	on			
		Non-recharge	able	batteries			Rech	argeab	le batteries		
		Discharging		ntentional	C	Char	ging		Discharging	Reverse	
Manufactu	urer/type	current (A)		harging Irrent (A)	Voltage	(V)	Curr	ent (A)	current (A)	charging current (A)	
Hamedata Te Co., Limited /					4.2			4	4		
Note: The tes	ts of M.3.2 a	re applicable o	nly v	when above	e appropria	ate c	lata is	not ava	ailable.		
Specified batt	tery tempera	iture (°C)	¹ Qais	.80		Į.	15-40	Ong Lab			
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent A)	Voltag (V)	e Obse	rvation	
	Normal					No damag hazards.					
B-~P-	SC	Charge mod	de	7h	36.7	1	.72	4.2	No damag hazards.		
	Normal	Discharge mo	ode	7h	38.6	1	.25	4.2	No damag hazards.		
B-~P-	SC	Discharge mo	ode	7h	39.3	1	.55	4.2	No damag hazards.	e, no	
Supplementa	ry informatio	n:									
		ircuit; OC= op						e; NS= r	no spillage of	liquid; NE=	
100			-								
M.4.2 TABLE: Charging safeguards for equipment containing a secondary lithium battery						n P					
Maximum specified charging voltage (V)						4.	2				
Maximum spe	ecified charg	ing current (A)				:		4	ļ		
Highest speci	fied charging	g temperature	(°C)			:		40	0		
Lowest specif	fied charging	temperature ((°C)			:		1:	5		
Battery	O	perating		Meas	surement				Observa	tion	
191 100			1054	5				12200			



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manufacturer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)	
Hamedata Technology Co., Limited / P92D	Normal	5	0	40.0°C	Battery charging current decrease to 0A when battery surface temp increase to 40.0°C.
	Normal	5	0	15	Battery charging current decrease to 0A when battery surface temp decline to 15°C.
Supplementary inform	nation:				
Abbroviation: CC- al	aart airauit: OC	- onon oirquit:	MCCV- movi	mum onooifio	d abaraina valtaga: MSCC

Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature

Annex Q.1	TABLE: Circuits in	ABLE: Circuits intended for interconnection with building wiring (LPS)						
Output	Components	U _{oc} (V)	I _{sc}	(A)	S (V	'A)		
Circuit			Meas.	Limit	Meas.	Limit		
Output (USB A)	Normal condition	5.06	1.75	8.0	7.03	100		
Output	SC	0	0	8.0	0	100		
Battery	Normal	4.2	6.34	8	20.00	100		

T.2, T.3, T.4, T.5	TABLE	TABLE: Steady force test						Ρ
Part/Locatio	n	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obse	rvation
External end	losure	Wooden	Min. 1.5		100	5	No dama hazardou	
Supplementary information:								

T.6, T.9 **TABLE:** Impact test N/A Location/part Material Thickness Observation Height (mm) (mm) ------------Supplementary information:



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T.7	TABLE: Dro	o test	L SA	LCS Test	P
Location/pa	urt	Material	Thickness (mm)	Height (mm)	Observation
External en	closure	Wooden	Min. 1.5	1000	No damage, no hazardous
Supplemen	tary information):			·

T.8	TABLE: Stress relief test							
Location/Pai	rt	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation		
-LO	5165		AST LC		- 1	LCS TO		
Supplement	ary infor	mation:						

X TABLE: Alt	TABLE: Alternative method for determining minimum clearances distances N/A			
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measure (mm)	
Supplementary information	on:			
(讯检测)版 Lab	古讯检测版 Lab	+ 讲检测版 Lab		THE
CS Testing	LCS Testing	ST LCS Testing	M	LCST





4.1.2 T	ABLE: List of critical	components			P
Object / par No.	t Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Battery	Dongguan PD New Energy Co.,LTD	PD 606090	3.7V,4000mAh	IEC 62133:2012	NCT Report No.: NCT19003720I1-1
Wooden enclosure			Min. thickness: 6.0mm	IEC/EN 62368-1	Test with appliance
PCB	Interchangeable	Interchangeable	V-0, 130°C	UL 796	UL
Internal wire	 Zhongshan He Yi Electrical Appliances Factory 	1015	105°C, 600V~, 20AWG, VW-1	UL758	UL E313976

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.









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LCS Testing L	ab LCS Testing	Attachment No.1	立 讯拉 测 Lab LCS Testing Lab	立讯检测 LCS Test
	IEC62	2368_1E - ATTACHMI	ENT	
Clause	Requirement + Test		Result - Remark	Verdict
	ATTAC	HMENT TO TEST RE	PORT	
(Audio/	EUROPEAN GROUP DIF		FIONAL DIFFERENCES ipment - Part 1: Safety requirem	ents)
Differences	according to EN I	EC 62368-1:2020+A1	1:2020	
Attachment	Form No EU_	GD_IEC62368_1E		nes (f)
Attachment	Originator : UI /	Demko)		
Attachiment	Originator UL(Jeniko)		
Master Atta	chment 202	1-02-04		
			ification of Electrical Equipme	nt
(IECEE), Ge	neva, Switzerland. All rights re	eserved.		
	CENELEC COMMON MODI	FICATIONS (EN)		Р
	IEC 62368-1:2020+A11:2020 those in the paragraph below). All other clause num , refers to IEC 62368-		Р
一個服件	Clauses, subclauses, notes, those in IEC 62368-1:2018 a		nexes which are additional to	T. At .
	Add the following annexes:			Р
	Annex ZA (normative) with their corre	Normative references esponding European pu	to international publications	100
	Annex ZB (normative)	Special national condi	tions	
	Annex ZC (informative)	A-deviations		
	Annex ZD (informative) cords	IEC and CENELEC co	ode designations for flexible	
1	Modification to Clause 3 .			
3.3.19	Sound exposure			N/A
	Replace 3.3.19 of IEC 62368	8-1 with the following d	lefinitions:	n HA
24	an the fill has hab	ab ab	一、田位制	h2 Lab
3.3.19.1	momentary exposure level,	MEL	LCS Testi	N/A
	metric for estimating 1 s sound the HD 483-1 S2 test signal ap channels, based on EN 50332	plied to both		
	Note 1 to entry: MEL is measu levels in dB.	ured as A-weighted		
	Note 2 to entry: See B.3 of EN additional information.	1 50332-3:2017 for		



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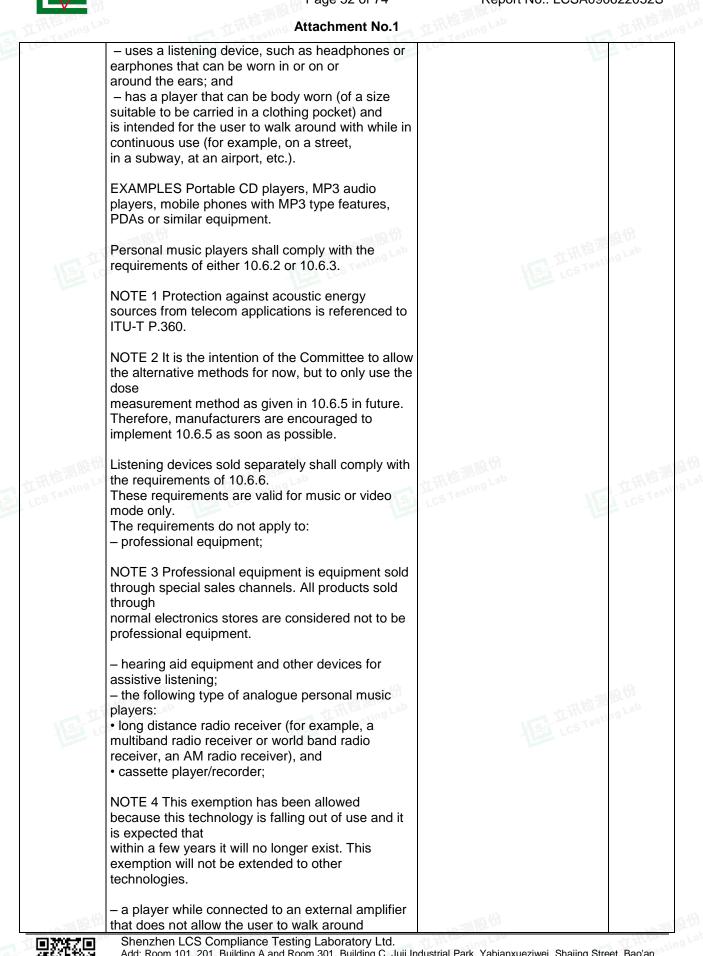


V	a second a second se	Report No.: EOGA030	0220020
	Attachment No.1		
3.3.19.3	sound exposure, <i>E</i> A-weighted sound pressure (<i>p</i>) squared and integrated over a stated period of time, <i>T</i>	100	N/A
	Note 1 to entry: The SI unit is Pa ² s. $E = \int_{0}^{T} p(t)^{2} dt$		
3.3.19.4	sound exposure level, SEL		N/A
	logarithmic measure of sound exposure relative to a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans.	立讯检测 LCS Testi	
	Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB.		
	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$		
	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	. m. Wit	N/A
立讯检测器的 LCS Testing La	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	立语检测的 Lab	
	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		
10.6	Safeguards against acoustic energy sources	IT: AL	N/A
	Replace 10.6 of IEC 62368-1 with the following:	I I il Martin	
10.6.1.1	Introduction	The real	N/A
	Safeguard requirements for protection against 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:		
人利服份	 is designed to allow the user to listen to audio or audiovisual content / material; and 	~ 测限份	Trans.
	Shenzhen LCS Compliance Testing Laboratory Ltd.		



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	Page 53 of 74	Report No.: LCSA090	622052S
立 讯 Mang La	Attachment No.1		
LCS / C-	while in use.	Les les	LOSIE
	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.		
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz		N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of	Linter I corest	段份 1g Lab
	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 hand- held 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	N/A
10.6.2.1	General		N/A
	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.	並訊检測版的 LCS Testing Lab	立讯检测 LCS Testi
	For classifying the acoustic output $LAeq, T$, measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.		
	For music where the average sound pressure (long term $LAeq, T$) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, T becomes the duration of the song.	有限检测	度份 a Lab
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $LAeq, T$) which is much lower than the average programme simulation noise. Therefore, if	E Tillen	
	the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as		
	the player is capable to analyse the content and compare it with the programme simulation noise,		





2

	Attachment No.1		
Les 1.	acknowledgement as long as the average sound	Lee 12	LOSIC
	level of the song is not above the basic limit of 85 dB.		
0.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)		N/A
	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 LAeq, <i>T</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1.	上 LCS Test	股份 og 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 ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. The RS1 limits will be updated for all devices as 		
0.6.2.3	per 10.6.3.2. RS2 limits (to be superseded, see 10.6.3.3)		N/A
0.0.2.3	- BE (1)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N/A
	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 when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 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 ≤ 150 mV (analogue interface) or -10 dBFS (digital	TiffAllon LCS Testing Lab	LCS Testi
151 IC	interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	LCS Test	ngLab
0.6.2.4	RS3 limits		N/A
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.		
0.6.3	Classification of devices (new)	1	N/A
0.6.3.1	General		N/A
	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	- an 44	
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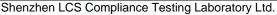
55	below.	Lee .	Les .
.6.3.2	RS1 limits (new)		N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination 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 ≤ 80 dB when playing the fixed "programme simulation noise" 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 ≤ 15 mV (analogue interface) or -30 dBFS (digital		股份 ng Lab
	interface) when playing the fixed "programme		
.6.3.3	simulation noise" described in EN 50332-1. RS2 limits (new)		N/A
A to Make the cost of the cost	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 be \leq 80 dB when playing the fixed "programme simulation noise" 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 level, integrated over one week, as described in EN50332-3, shall be \leq 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	ti Att Math	
0.6.4	Requirements for maximum sound exposure	I I HIMAN	N/A
0.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	The cost	N/A
0.6.4.2	Protection of persons		N/A
	Except as given below, protection requirements for parts accessible to ordinary persons , instructed persons and skilled persons are given in 4.3.		





Page 56 of 74 Report No.: LCSA090622052S Attachment No.1 NOTE 1 Volume control is not considered a safeguard. Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the **instructional safeguard** shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use. The elements of the instructional safeguard shall be as follows: – element 1a: the symbol 4 L IEC 60417-6044 (2011-01)- element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent wording - element 4: "Do not listen at high volume levels for long periods." or equivalent wording An equipment safeguard shall prevent exposure of an **ordinary person** to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 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. NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. 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. A skilled person shall not be unintentionally exposed to RS3. 10.6.5 **Requirements for dose-based systems** N/A 10.6.5.1 General requirements N/A

Personal music players shall give the warnings as





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V . m (1)	Fage 57 01 74	Report No.: LCSA09	UULLUULU
立语检测 Lal	Attachment No.1		
, Tee	provided below when tested according to EN 50332-3, using the limits from this clause.	Los is	LOSIC
	The manufacturer may offer optional settings to 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.	立 北林 校子 LCS Tes	M& 61 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.		
10.6.5.2	Dose-based warning and requirements		N/A
立讯检测股份 LCS Testing Lat	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the 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.	立讯检测限份 LCS Testing Lab	立讯检测器 LCS Testing
	The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.		
10.6.5.3	Exposure-based requirements		N/A
NG III	With 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.	LCS Test	制版份 ing Lab
	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 faster.		
	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	- 05	

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THE MELAN	Attachment No.1		
Los Testino	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.	o Testinis	Los Testin
10.6.6	(or test signal), the EL may be disabled.		
	Requirements for listening devices (headphones, ea	arphones, etc.)	N/A
10.6.6.1	Corded listening devices with analogue input 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	后, 上CS Test	
	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. NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.		
10.6.6.2	Corded listening devices with digital input		N/A
	With any playing device playing the fixed "programme 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 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.	R 检测服务 S Testing Lab	立讯检测 LCS Testi
10.6.6.3	Cordless listening devices		N/A
	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	上 LCS Test	度份 ng Lab
10.6.6.4	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.		
10.0.0.4	Measurements shall be made in accordance with EN 50332-2 as applicable.		N/A
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V			Page 8	59 of 74	Rep	oort No.: LCSA0	90622052S
			Attachm	nent No.1			
	Delete all the st:	"country" note	es in the refe	erence docume	ent according	to the following	g N/A
	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	
	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						则服务
NS III	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	ting Lab
Tea the	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 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
检测股份	Y.4.5	Note					山田位河
N MING L	Adification	to Clause 1	117P		e 11		Thursday
	Add the follow	ving note:					N/A
é	and electronic	e use of certair equipment is 2011/65/EU.					

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Modification to 4.Z1



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Attachment No.1

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Li积检测 Lat	Attachment No.1		
4.Z1	Add the following new subclause after 4.9:	ree .	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 , to rely on dedicated overcurrent and short-circuit protection	LCS Testi	B.H.
	 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. 	立讯检测度份 as Testing Lab	立讯检测的
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 ^{d)} in table 39:		N/A
	For additional requirements, see 10.5.1.		
8	Modification to 10.5.1		
TI	STesting Lab	LCS Testin	gLab



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Add the following after the first paragraph: 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 ocked 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 neasurement is made.			N/A
Inder 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 ocked in a reliable manner, are adjusted so as to pive maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the neasurement is made.			
controls adjustable from the outside by hand, by iny object such as a tool or a coin, and those internal adjustments or pre-sets which are not ocked 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 neasurement is made.			
NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.			ig Lab
The dose-rate is determined by means of a adiation monitor with an effective area of 10 cm ² , and the outer surface of the apparatus.			
Moreover, the measurement shall be made under ault conditions causing an increase of the high roltage, provided an intelligible picture is naintained for 1 h, at the end of which the neasurement is made.			
For RS1, the dose-rate shall not exceed 1 µSv/h aking account of the background level. NOTE Z2 These values appear in Directive	L讯检测器()。 LCS Testing Lab		3
6/29/Euratom of 13 May 1996.			×
Nodification to G.7.1			
Add the following note:	\Box	_	N/A
IOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.			
	he dose-rate is determined by means of a adiation monitor with an effective area of 10 cm ² , t any point 10 cm from the outer surface of the pparatus. Horeover, the measurement shall be made under adult conditions causing an increase of the high oltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. or RS1, the dose-rate shall not exceed 1 μ Sv/h adving account of the background level. OTE Z2 These values appear in Directive 6/29/Euratom of 13 May 1996. Hodification to G.7.1 add the following note: OTE Z1 The harmonized code designations or responding to the IEC cord types are given in	xamples of adequate locking. he dose-rate is determined by means of a adiation monitor with an effective area of 10 cm ² , t any point 10 cm from the outer surface of the pparatus. Horeover, the measurement shall be made under ault conditions causing an increase of the high obtage, provided an intelligible picture is maintained for 1 h, at the end of which the beasurement is made. or RS1, the dose-rate shall not exceed 1 µSv/h aking account of the background level. OTE Z2 These values appear in Directive 6/29/Euratom of 13 May 1996. Iodification to G.7.1 Iodification to G.7.1 Iodification to G.7.1 DOTE Z1 The harmonized code designations orresponding to the IEC cord types are given in nnex ZD.	xamples of adequate locking. he dose-rate is determined by means of a adiation monitor with an effective area of 10 cm², t any point 10 cm from the outer surface of the pparatus. Ioreover, the measurement shall be made under ault conditions causing an increase of the high oltage, provided an intelligible picture is haintained for 1 h, at the end of which the heasurement is made. or RS1, the dose-rate shall not exceed 1 µSv/h aking account of the background level. OTE Z2 These values appear in Directive 6/29/Euratom of 13 May 1996. Iodification to G.7.1 idd the following note: OTE Z1 The harmonized code designations orresponding to the IEC cord types are given in nnex ZD.

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LCC Testing La	Attachment No.1 Add the following notes for the standards indicated:	N/A
	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61508-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2.1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2.4. IEC 61558-2-6 NOTE Harmonized as EN 61558-2.4. IEC 61643-1 NOTE Harmonized as EN 61643-2.1. IEC 61643-1 NOTE Harmonized as EN 61643-2.1. IEC 61643-1 NOTE Harmonized as EN 61643-3.1. IEC 61643-311 NOTE Harmonized as EN 61643-3.1. IEC 61643-311 NOTE Harmonized as EN 61643-3.1. IEC 61643-311 NOTE Harmonized as EN 61643-3.1. IEC 61643-331 NOTE Harmonized as EN 61643-3.3. IEC 61643	金利则 是份 iestii g Lab
11	ADDITION OF ANNEXES	
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	
4.1.15	Denmark, Finland, Norway and Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.	N/A
	The marking text in the applicable countries shall be as follows: In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."	计定测 关闭 S Testing Lab



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Les Testins	Attachment No.1	LCG TESTING	Los Testil
.7.3		L	N/A
	To the end of the subclause the following is added:		
	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		
5.2.2.2	see Annex G.4.2 of this annex Denmark		NI/A
J.Z.Z.Z	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	立田检测	最份 g Lab
5.4.11.1	limits of 3,5 mA a.c. or 10 mA d.c. Finland and Sweden	ST LCS Test	N/A
and			N/A
Annex G	To the end of the subclause the following is added:		
	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 	- TH	
	 one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. 	LCS Testing Lab	立 讯检测 LCS Testin
	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		
	• 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),	LCS TOST	度份 g Lab
	and		
	 is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. 		
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384-		





立讯检测 Lab	Attachment No.1		
LCS 16	14:2005, may bridge this insulation under the following conditions:	Cos I II	LOSTER
	 the insulation requirements are satisfied by having a capacitor classified Y3 as defined by 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; 		
LCS	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.	「」 上の Testin Los Testin	
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		N/A
	To the end of the subclause the following is added:		
立讯检测限份 LCS Testing 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.	LiR 检测路的 CCS Testing Lab	
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. <i>Justification:</i>		
1.17	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	一田位利	
5.6.4.2.1	Ireland and United Kingdom	ST LCS Testi	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 mains plug.		
5.6.4.2.1	France		N/A
	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.		



Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China



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立语和 Lab	Attachment No.1	
5.6.5.1	To the second paragraph the following is added:	N/A
	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.	
5.6.8	Norway	N/A
	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.	
5.7.6	Denmark	N/A
LCS	To the end of the subclause the following is added:	LCS TEST
	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.	
5.7.6.2	Denmark	N/A
	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.	
5.7.7.1	Norway and Sweden	N/A
	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.	L'Atà Milleton Los Testing Lab
	It is however accepted to provide the insulation 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:	上ST 上CS Testi G Lab
	"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 coaxial 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-	







	Attachment No.1		
LCS Test	11)"	Costes.	Lestes
	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):		
	"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."	LCS Testi	良份 g 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 fall 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.".	-mi BB (fr)	
8.5.4.2.3	United Kingdom	THE Mana Lab	N/A
LCS Testing	Add the following after the 2 nd dash bullet in 3 rd paragraph:	CCS Testing	LCS Testilis
	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.		
B.3.1 and	Ireland and United Kingdom		N/A
B.4	The following is applicable:		
	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,	LCS Testi	安代) gLab
	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		
G.4.2	Denmark		N/A
	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.	- 15	





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上讯位 Mang Lab	Attachment No.1	立法位 Mong Lab	
	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.	其语意测 最优	
	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.	LOSTE	
	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- 5a or DK 1-7a	TES ()	
	<i>Justification:</i> Heavy Current Regulations, Section 6c		
G.4.2	United Kingdom	N/A	
	To the end of the subclause the following is added:		
	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.		
	A 描述 Weing Lab S Testing Lab	上CS Testing Lab	





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Littlesting Lab	Attachment No.1	Titlesting Lau Instanting	stin
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.		
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion	上CS Testing Lab	
G.7.1	plug. Ireland	N/A	
0	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	N/A	1253
	To the first paragraph the following is added:	LOS TEST	5
	A power supply cord with a conductor of $1,25 \text{ mm}^2$ is allowed for equipment which is rated over 10 A and up to and including 13 A.		
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		
10.5.2	Germany	N/A	
	The following requirement applies:		
Los Los	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.	医和拉油检测 员份 LCS Testing Lab	
	<i>Justification</i> : 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, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	are the	

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LCS Test.	La La	IEC62368_1E - ATTACHME	INT ^{S 105}	LCSTESL
Clause	Requirement + Test		Result - Remark	Verdict

	Type of flexible cord	Code designations] N/A
		IEC	CENELEC	
	PVC insulated cords			
	Flat twin tinsel cord	60227 IEC 41	H03VH-Y	股份
Les IC	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	ngLau
	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	
一個時代	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
Testing Lab	Cords having high flexibility			立讯桥
<u>,</u> C2 ,	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	LCS .
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H	
	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	服份





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Details of: **External View**









Shenzhen LCS Compliance Testing Laboratory Ltd.

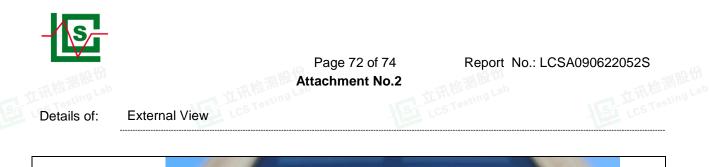
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com

Scan code to check authenticity





5 6







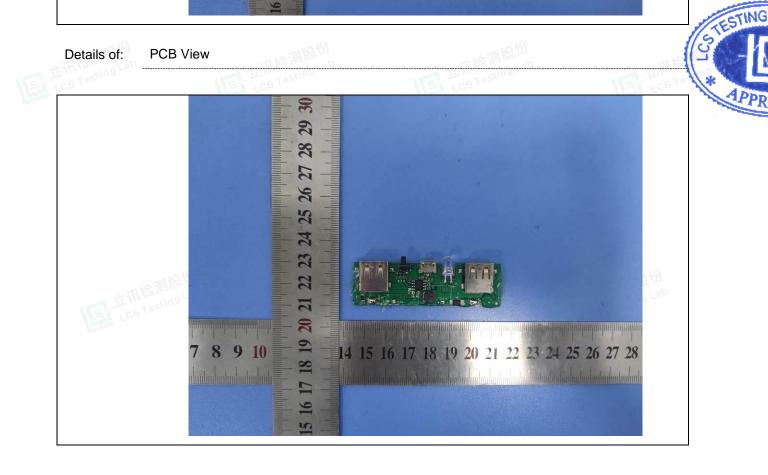
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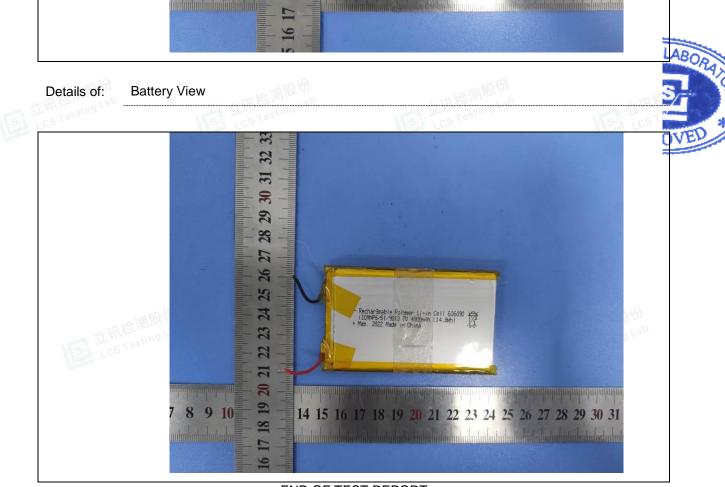




19

18

7 8 9 10



14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

-----END OF TEST REPORT-----

