



TEST REPORT EN IEC 62368-1

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

Report Number.....: LCSA110122125S

Date of issue: 2022-11-16

Total number of pages: 74

preparing the Report::

Name of Testing Laboratory Shenzhen LCS Compliance Testing Laboratory Ltd.

Applicant's name.....: Mid Ocean Brands B.V.

Kowloon, Hong Kong

Test specification:

Standard: EN IEC 62368-1:2020+A11:2020

Test procedure....: Type test

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

TRF template used: IECEE OD-2020-F1:2021, Ed.1.4

Test Report Form No.....: IEC62368_1E

Test Report Form(s) Originator....: UL(US)

Master TRF: Dated 2022-04-14

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Manufacturer..... 114628

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

☐ Testing Laboratory:		Shenzhen LCS Compliance Testing Laboratory Ltd.		
Tes	ting location/ address:	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China		
Pre	pared by:	David Ma Project Handler	David Ma	
Che	ecked by:	Terry Zhu Reviewer	Jenny Vhm	
Apr	proved by:	Hart Qiu	H. = 16.	

Technical Director







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List of Attachme	ents (including a total number of	pages in each attachment):	
- Attachment No.	1: National Differences		
-Attachment No. 2	2: Photo Documentation		
Summary of test	ing:		
Tests performed	(name of test and test clause):	Testing location:	
Electrical safety	:	Shenzhen LCS Compliance Testing I	
EN IEC 62368-1:	2020+A11:2020	Room 101, 201, Building A and Room C, Juji Industrial Park, Yabianxueziwa	
	服份	Street, Bao'an District, Shenzhen, Gu China	
Summary of con	npliance with National Difference	es: setting Land	
List of countries No. 1.	addressed: National Differences	s and Group Differences as refer to A	Attachment
	fulfils the requirements of EN IEC	C 62368-1:2020+A11:2020	
Use of uncertain	ty of measurement for decisions	s on conformity (decision rule) :	
applicable limit a	ccording to the specification in th the measurement uncertainty ("sir	rd, when comparing the measurement at standard. The decisions on conformple acceptance" decision rule, previous	rmity are made
Other: (to be accreditation requ		ired by the standard or client, or if natio	nal Los Tes
The uncertainties by OD-5014 for procedures of IEC IEC Guide 115 pt the decision rule	test equipment and application DEE. rovides guidance on the application when reporting test results with	y the laboratory based on application of test methods, decision sheets an of measurement uncertainty principle in IECEE scheme, noting that the ret necessary unless required by the terms.	and operational es and applying eporting of the

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



the testing.

Shenzhen LCS Compliance Testing Laboratory Ltd.

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Copy of marking plate:

The artwork below may be only a draft.

MOB/MO6392 Input: DC5V=2A/9V=2A
PO BOX 644 Output: DC5V=1A/7.5V=1A/9V=1.1A
6710 BP (NL) Frequency range: 110-205kHz
Made in China Wireless Output power: 10W Max
PO41-111229



Note:

- The height of CE symbol ≥ 5.0mm; the height of WEEE symbol ≥ 7.0mm.
- The above labels are only samples.







Test item particulars:	Los 10	Tos Ic
Product group:		t
Classification of use by:	☑ Ordinary person☑ Instructed person☑ Skilled person	likely present
Supply connection:	☐ AC mains ☐ DC main ☐ not mains connected: ☐ ES1 ☐ ES2 ☐ ES3	าร
Supply tolerance::	+10%/-10% +20%/-15%	
	☐ + %/ - % ☐ None	
Supply connection – type:	☐ pluggable equipment type A — ☐ non-detachable supply cord ☐ appliance coupler ☐ direct plug-in ☐ pluggable equipment type B — ☐ non-detachable supply cord ☐ appliance coupler ☐ permanent connection ☑ other: Not directly connected to the manufacture of the supplication of the supplic	I
Considered current rating of protective device:	☐ A; Location: ☐ building ☐] equipment
Equipment mobility:	 N/A movable	transportable for building-in c-mounted
Overvoltage category (OVC):	☐ OVC IV ☐ OVC II ☐ OVC IV ☐ other: Supplied by	OVC III Max. DC 9V
Class of equipment::	☐ Class I ☐ Class II ☐ Not classified ☐	Class III
Special installation location:	N/A □ restricted access a□ outdoor location □	area
Pollution degree (PD):	□ PD 1 □ PD 2 □] PD 3
$\label{eq:manufacturer} \textbf{Manufacturer's specified T}_{ma}:$	25 °C Outdoor: minimum °C	
IP protection class:	☑ IPX0 ☐ IP	
Power systems:	☐ TN ☐ TT ☐ IT - V _{L-L} ☐ not AC mains	
Altitude during operation (m):	⊠ 2000 m or less ☐ m	
Altitude of test laboratory (m):	⊠ 500 m or less	
Mass of equipment (kg):	0.030kg	



*





LCS	Pa	ge 6 of 74 Repo	rt No.: LCSA110122125S
Pos	ssible test case verdicts:		
- te	st case does not apply to the test object:	N/A	
- te	st object does meet the requirement:	P (Pass)	
- te	st object does not meet the requirement:	F (Fail)	
Tes	sting:		
Dat	e of receipt of test item:	2022-11-08	
Dat	e (s) of performance of tests:	From 2022-11-08 to 2022-11-16	3
Gol	neral remarks:	14.30 HZ 17	44:11111211
The in t	e applicant and manufacturer information, probing report are all provided by the applicant, a henticity.	roduct name, model, trademark and this laboratory is not respo	and other information
	nufacturer's Declaration per sub-clause 4.2.	1	
incl dec san	e application for obtaining a CB Test Certificate udes more than one factory location and a claration from the Manufacturer stating that the hple(s) submitted for evaluation is (are)	☐ Yes ☑ Not applicable	7 th
	resentative of the products from each factory been provided	ILCS Testing La	MST LCS Tes
Nar	me and address of factory (ies)	PYS High-Tech Co., Ltd	
		PYS VIETNAM TECHNOLOGY	COMPANY LIMITED
Wh	en differences exist; they shall be identified	in the General product informa	tion section.
Gei	neral product information and other remark	s:	
1.	The product was submitted and tested for us temperature (Tma) of 25°C.	e at the manufacturer's recomme	ended ambient
2.	It is powered by external DC Source.		
3.	There are several models of the product, all of main test model is MO6392.	which are consistent except appe	earance and shape. The









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





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ENERGY SOURCE DIAGRAM

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

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

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

NSA 立语检测股份 LCS Testing Lab

医工工活检测股份 LCS Testing Lab













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	th the sale of th	EC 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Р
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	P 股份 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.	Р
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered		N/A
4.1.8	Liquids and liquid filled components (LFC)	上讯检测设 ^分	N/A
4.1.15	Markings and instructions	(See Annex F)	Pote
4.4.3	Safeguard robustness		N/A
4.4.3.1	General		N/A
4.4.3.2	Steady force tests		N/A
4.4.3.3	Drop tests		N/A
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	in a	N/A
过过	Glass impact test (1J)	Tiller	N/A
1	Push/pull test (10 N)	100	N/A
4.4.3.8	Thermoplastic material tests		N/A
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		N/A
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion	•	N/A



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions.	N/A
4.5.2	No explosion during normal/abnormal operating condition		N/A
	No harm by explosion during single fault conditions		N/A
4.6	Fixing of conductors		N/A
	Fix conductors not to defeat a safeguard		N/A
	Compliance is checked by test:	The Assessment of the Assessme	N/A
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:	122 100	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 used	N/A
4.8.2	Instructional safeguard:		N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test		N/A
4.8.4.2	Stress relief test	113	N/A
4.8.4.3	Battery replacement test	·····································	N/A
4.8.4.4	Drop test	LCS Testino	N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
	30N force test with test probe		N/A
	20N force test with test hook		N/A
4.9	Likelihood of fire or shock due to entry of condu	ctive object	N/A
4.10	Component requirements		N/A
4.10.1	Disconnect Device		N/A
4.10.2	Switches and relays	工活作	N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	3,		Р
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits		N/A



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IEC 62368-1			一面检
Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.4	Single pulse limits:	No such single pulses generated in the EUT or applied to it.	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses within the EUT	N/A
5.2.2.6	Ringing signals	No such ringing signals within the EUT	N/A
5.2.2.7	Audio signals		N/A
5.3	Protection against electrical energy sources		N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	Only ES1 circuits within the equipment.	N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits		N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors		N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit can be accessed for this product	N/A
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements		N/A
	Test with test probe from Annex V		-
5.3.2.2 a)	Air gap – electric strength test potential (V):	- 绘测股份	N/A
5.3.2.2 b)	Air gap – distance (mm):	工 清	N/A
5.3.2.3	Compliance	1	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.	N/A
5.4.1.3	Material is non-hygroscopic	No hygroscopic material used.	N/A
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	N/A
5.4.1.5	Pollution degrees:	2	Р
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied. No insulating compound applied (however see 5.5.4).	N/A
5.4.1.5.3	Thermal cycling test	See above	N/A
5.4.1.6	Insulation in transformers with varying dimensions	No such transformer within the EUT	N/A
5.4.1.7	Insulation in circuits generating starting pulses	No such starting pulses within the EUT	N/A
5.4.1.8	Determination of working voltage		N/A
5.4.1.9	Insulating surfaces		N/A



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可检测规则	IEC 62368-1	THE THE Lab	二四位
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.10.2	Vicat test		N/A
5.4.1.10.3	Ball pressure test		N/A
5.4.2	Clearances	Class III equipment, only functional insulations were considered. See also Annex B.4.4 for short circuit of functional insulation.	N/A
5.4.2.1	General requirements	LIA检测	N/A
TET I	Clearances in circuits connected to AC Mains, Alternative method	LCS Tess	N/A
5.4.2.2	Procedure 1 for determining clearance		N/A
	Temporary overvoltage:		_
5.4.2.3	Procedure 2 for determining clearance		N/A
5.4.2.3.2.2	a.c. mains transient voltage		_
5.4.2.3.2.3	d.c. mains transient voltage		_
5.4.2.3.2.4	External circuit transient voltage		_
5.4.2.3.2.5	Transient voltage determined by measurement:	an Hà	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test:	立语检测Lab	N/A
5.4.2.5	Multiplication factors for clearances and test voltages		N/A
5.4.2.6	Clearance measurement		N/A
5.4.3	Creepage distances		N/A
5.4.3.1	General		N/A
5.4.3.3	Material group	IIIa&IIIb	_
5.4.3.4	Creepage distances measurement		N/A
5.4.4	Solid insulation		N/A
5.4.4.1	General requirements	二语位型	N/A
5.4.4.2	Minimum distance through insulation	LCS Test	N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		N/A
· · · · · · · · · · · · · · · · · · ·	Number of layers (pcs):		N/A



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
5.4.4.6.3	Non-separable thin sheet material	No such insulation used within the EUT	N/A	
	Number of layers (pcs):		N/A	
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:		N/A	
5.4.4.6.5	Mandrel test		N/A	
5.4.4.7	Solid insulation in wound components		N/A	
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	TO THE STATE OF TH	N/A	
WE I	Alternative by electric strength test, tested voltage (V), K_R	THE LICE TO STORE	N/A	
5.4.5	Antenna terminal insulation		N/A	
5.4.5.1	General		N/A	
5.4.5.2	Voltage surge test		N/A	
5.4.5.3	Insulation resistance (MΩ):		N/A	
	Electric strength test:		N/A	
5.4.6	Insulation of internal wire as part of supplementary safeguard	No such insulation of internal wire as part of supplementary safeguard.	N/A	
5.4.7	Tests for semiconductor components and for cemented joints	立河位测度 Lab	N/A	
5.4.8	Humidity conditioning	1	N/A	
	Relative humidity (%), temperature (°C), duration (h):		_	
5.4.9	Electric strength test		N/A	
5.4.9.1	Test procedure for type test of solid insulation:		N/A	
5.4.9.2	Test procedure for routine test		N/A	
5.4.10	Safeguards against transient voltages from external circuits		N/A	
5.4.10.1	Parts and circuits separated from external circuits	. "[]	N/A	
5.4.10.2	Test methods	工语图	N/A	
5.4.10.2.1	General	1 Par res	N/A	
5.4.10.2.2	Impulse test:		N/A	
5.4.10.2.3	Steady-state test:		N/A	
5.4.10.3	Verification for insulation breakdown for impulse test:		N/A	
5.4.11	Separation between external circuits and earth	No such connections for external circuit applied within the EUT	N/A	





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IEC 62368-1			THE WAR
Clause	Requirement + Test	Result - Remark	Verdict
5.4.11.1	Exceptions to separation between external circuits and earth	No such connections to external circuit as above.	N/A
5.4.11.2	Requirements		N/A
	SPDs bridge separation between external circuit and earth		N/A
	Rated operating voltage U _{op} (V):		_
	Nominal voltage U _{peak} (V)		_
	Max increase due to variation ΔU_{sp} :		_
4	Max increase due to ageing ΔU_{sa} :	共和检测	_
5.4.11.3	Test method and compliance:	LCS Tes	N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:		N/A
5.4.12.3	Compatibility of an insulating liquid:		N/A
5.4.12.4	Container for insulating liquid:		N/A
5.5	Components as safeguards		N/A
5.5.1	General		N/A
5.5.2	Capacitors and RC units	公测股份	N/A
5.5.2.1	General requirement	Titlesting Lab	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	100	N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays	No such component provided.	N/A
5.5.6	Resistors	No such component provided.	N/A
5.5.7	SPDs	No such component provided.	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable:	No such external circuits.	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	立语位为	N/A
1/8/	RCD rated residual operating current (mA):	184 real	_
5.6	Protective conductor	Class III equipment	N/A
5.6.2	Requirement for protective conductors		N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation		N/A
5.6.3	Requirement for protective earthing conductors		N/A



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田松川四	IEC 62368-1	THE WALLS	一识险
Clause	Requirement + Test	Result - Remark	Verdict
	Protective earthing conductor size (mm²):		_
	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 (mm²):		_
5.6.4.2	Protective current rating (A):	上讯检测	N/A
5.6.5	Terminals for protective conductors	IST LCS Test	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):		N/A
	Terminal size for connecting protective bonding conductors (mm):		N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method		N/A
5.6.6.3	Resistance (Ω) or voltage drop:	可於測股份	N/A
5.6.7	Reliable connection of a protective earthing conductor	CCS Testing 1	N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm²):		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
5.7.2.2	Measurement of voltage	上语检测	N/A
5.7.3	Equipment set-up, supply connections and earth connections	LCS TOS	N/A
5.7.4	Unearthed accessible parts		N/A
5.7.5	Earthed accessible conductive parts:		N/A
5.7.6	Requirements when touch current exceeds ES2 limits		N/A
	Protective conductor current (mA):		N/A
	Instructional Safeguard:		N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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
- ti	b) Equipment connected to unearthed external circuits, current (mA):	一 女讯检测	N/A
5.8	Backfeed safeguard in battery backed up supplies	LCSTES	N/A
	Mains terminal ES:		N/A
	Air gap (mm):		N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		Р
6.2.2	Power source circuit classifications	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS	公测股份	N/A
6.2.3.2	Resistive PIS	I Missing Las	Pres
6.3	Safeguards against fire under normal operating a conditions	and abnormal operating	Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	Р
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault condition	ons	Р
6.4.1	Safeguard method	Method of "control of fire spread" is used.	服化P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	LCS Test	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions:		N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits		Р



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识检测版》	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
6.4.5.2	Supplementary safeguards	Compliance detailed as follows: - Printed board: rated min. V-0. - All other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g).	Р	
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	IIS I THIS	ng Lab	
6.4.7.2	Separation by distance	100	Р	
6.4.7.3	Separation by a fire barrier		Р	
6.4.8	Fire enclosures and fire barriers	See below	Р	
6.4.8.2	Fire enclosure and fire barrier material properties	The V-0 material is used for the fire enclosure	N/A	
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A	
6.4.8.2.2	Requirements for a fire enclosure	The V-0 material is used for the fire enclosure	Р	
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	立用位测度份 立用位测度份	N/A	
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):	No fire enclosure required.	N/A	
6.4.8.3.4	Bottom openings and properties		N/A	
	Openings dimensions (mm):	No fire enclosure required.	N/A	
	Flammability tests for the bottom of a fire enclosure		N/A	
	Instructional Safeguard:		N/A	
6.4.8.3.5	Side openings and properties		N/A	
江江	Openings dimensions (mm):	No fire enclosure required.	N/A	
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c):	100	N/A	
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:	V-0 fire enclosure material.	Р	
6.4.9	Flammability of insulating liquid:		N/A	
6.5	Internal and external wiring		N/A	
6.5.1	General requirements		N/A	



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6.5.2	Requirements for interconnection to building wiring		N/A
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A
6.6	Safeguards against fire due to the connection to	additional equipment	Р

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
7.2	Reduction of exposure to hazardous substances	
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	
7/18	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	N/A

8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications		Р
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and co	orners	P
8.4.1	Safeguards	LCS Testing 1	N/A
	Instructional Safeguard:	-	N/A
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	Р
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A
	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional safeguard:	立 语检测	N/A
8.5.4	Special categories of equipment containing moving parts	- Visa res	N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator		N/A



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江台测院7	IEC 62368-1	TATE THE LAB	血粒
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2.3	Emergency stop system		N/A
	Maximum stopping distance from the point of activation (m)		N/A
	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements		N/A
	Mechanical system subjected to 100 000 cycles of operation		N/A
	- Mechanical function check and visual inspection	- 4-7	N/A
VS I	- Cable assembly	VS TESTES	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)		N/A
8.5.4.3.5	Compliance		N/A
8.5.5	High pressure lamps	- 115	N/A
·讯检测版》	Explosion test	· 讯检测股际	N/A
8.5.5.3	Glass particles dimensions (mm)	LCS Testing	N/A
8.6	Stability of equipment		N/A
8.6.1	General		N/A
	Instructional safeguard		N/A
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		N/A
8.6.2.3	Downward force test		N/A
8.6.3	Relocation stability		N/A
	Wheels diameter (mm):	n to T	_
VISIT	Tilt test	VIST CSTOS	N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test:		N/A
8.7	Equipment mounted to wall, ceiling or other struc	eture	N/A
8.7.1	Mount means type:	Not such equipment.	N/A
8.7.2	Test methods		N/A
	Test 1, additional downwards force (N)		N/A





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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	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	No handles provided.	N/A
8.8.2	Handle strength test		N/A
	Number of handles		_
	Force applied (N)	· · · · · · · · · · · · · · · · · · ·	185.111
8.9	Wheels or casters attachment requirements	151 LCS Test	N/A
8.9.2	Pull test	No wheels or casters.	N/A
8.10	Carts, stands and similar carriers		N/A
8.10.1	General	No carts, stands or similar carriers.	N/A
8.10.2	Marking and instructions:		N/A
8.10.3	Cart, stand or carrier loading test		N/A
	Loading force applied (N):		N/A
8.10.4	Cart, stand or carrier impact test	in th	N/A
8.10.5	Mechanical stability	TiH拉 jing Lab	N/A
LCS Test	Force applied (N)	LCSTOS	CS TO
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipmen	t (SRME)	N/A
8.11.1	General	Not such equipment.	N/A
8.11.2	Requirements for slide rails		N/A
	Instructional Safeguard:		N/A
8.11.3	Mechanical strength test		N/A
8.11.3.1	Downward force test, force (N) applied:		N/A
8.11.3.2	Lateral push force test	~ 拉河	N/A
8.11.3.3	Integrity of slide rail end stops	MST CS Test	N/A
8.11.4	Compliance		N/A
8.12	Telescoping or rod antennas		N/A
	Button/ball diameter (mm)	No such parts.	_

9	THERMAL BURN INJURY	Р
9.2	Thermal energy source classifications	Р
9.3	Touch temperature limits	Р



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IEC 62368-1			Take T
Clause	Requirement + Test	Result - Remark	Verdict
9.3.1	Touch temperatures of accessible parts:	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
9.3.2	Test method and compliance		Р
9.4	Safeguards against thermal energy sources		Р
9.5	Requirements for safeguards		Р
9.5.1	Equipment safeguard		Р
9.5.2	Instructional safeguard:		N/A
9.6	Requirements for wireless power transmitters		Р
9.6.1	General		Р
9.6.2	Specification of the foreign objects		Р
9.6.3	Test method and compliance:		Р

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification	RS1	Р
	Lasers:		_
-n.ll	Lamps and lamp systems:	n Hà	
证法	Image projectors:	女讯检测版 Lab	
LCS Testill	X-Ray:	LCSTOR	_
	Personal music player:		_
10.3	Safeguards against laser radiation		N/A
	The standard(s) equipment containing laser(s) comply:		N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)		Р
10.4.1	General requirements	Exempt Group:Indicator	Р
	Instructional safeguard provided for accessible radiation level needs to exceed		N/A
VS T	Risk group marking and location:	US CS Test	N/A
The same	Information for safe operation and installation	120	N/A
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure:		N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation		N/A
10.5.1	Requirements	No such x-radiation generated from the equipment	N/A
	Instructional safeguard for skilled persons:		



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
10.5.3	Maximum radiation (pA/kg):		_
10.6	Safeguards against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output L _{Aeq,T} , dB(A):		N/A
	Unweighted RMS output voltage (mV)		N/A
	Digital output signal (dBFS)		N/A
10.6.3	Requirements for dose-based systems	-4-7	N/A
10.6.3.1	General requirements	VS I CS Test	N/A
10.6.3.2	Dose-based warning and automatic decrease	1	N/A
10.6.3.3	Exposure-based warning and requirements		N/A
	30 s integrated exposure level (MEL30):		N/A
	Warning for MEL ≥ 100 dB(A)		N/A
10.6.4	Measurement methods		N/A
10.6.5	Protection of persons		N/A
	Instructional safeguards:		N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	四檢測股份	N/A
10.6.6.1	Corded listening devices with analogue input	CS Testing	N/A
	Listening device input voltage (mV):		N/A
10.6.6.2	Corded listening devices with digital input		N/A
	Max. acoustic output $L_{Aeq,T}$, dB(A)		N/A
10.6.6.3	Cordless listening devices		N/A
	Max. acoustic output $L_{Aeq,T}$, dB(A)		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS General		Р
B.1			BETT
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers :		N/A
B.2.3	Supply voltage and tolerances	Rated voltage	Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р



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山检测度》	IEC 62368-1	- 用检测技艺	_nta
Clause	Requirement + Test	Result - Remark	Verdict
B.3.1	General		Р
B.3.2	Covering of ventilation openings		N/A
	Instructional safeguard:		N/A
B.3.3	DC mains polarity test	The EUT is not connected to a D.C. mains	N/A
B.3.4	Setting of voltage selector	No voltage selector was used.	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	Р
B.3.6	Reverse battery polarity	- 田位刊	N/A
B.3.7	Audio amplifier abnormal operating conditions	LCS Test	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:		Р
B.4	Simulated single fault conditions		Р
B.4.1	General		Р
B.4.2	Temperature controlling device		N/A
B.4.3	Blocked motor test	(See appended table B.4)	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)	工品位 CSTes
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards used.	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4 for faults on electronic components)	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.	ng Lah
B.4.9	Battery charging and discharging under single fault conditions	No battery used.	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method		N/A



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Clause	Requirement + Test	Result - Remark	Verdic
C.2	UV light conditioning test	102	N/A
C.2.1	Test apparatus	:	N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator	The same of the sa	N/A
D.3	Electronic pulse generator	ab I III	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTA	INING AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for aud	dio signals	N/A
	Maximum non-clipped output power (W)	:	_
	Rated load impedance (Ω)	:	
	Open-circuit output voltage (V)		
	Instructional safeguard		
E.2	Audio amplifier normal operating conditions		N/A
-n.W	Audio signal source type	: all	_
ing Ling Ling Ling Ling Ling Ling Ling L	Audio output power (W)	Ting Lab	
CS TOSTIL	Audio output voltage (V)	70511	
	Rated load impedance (Ω)	:	
	Requirements for temperature measurement		N/A
E.3	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AN	ID INSTRUCTIONAL	Р
F.1	General		Р
	Language	: English version provided and checked.	
F.2	Letter symbols and graphical symbols	ab	ng LiP
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		P







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Clause	IEC 62368-1	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
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	- 讯检7	B
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	_
F.3.3.4	Rated voltage:	See copy of marking plate.	
F.3.3.5	Rated frequency:		
F.3.3.6	Rated current or rated power:	See copy of marking plate.	
F.3.3.7	Equipment with multiple supply connections	Only one mains supply connection provided.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	See below.	Р
F.3.5.1	Mains appliance outlet and socket-outlet markings	: No such devices on the equipment	N/A
F.3.5.2	Switch position identification marking:	No switch used.	N/A
F.3.5.3	Replacement fuse identification and rating markings	: No such component used.	N/A
	Instructional safeguards for neutral fuse:		N/A
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Neutral conductor terminal	See below.	N/A
F.3.5.6	Terminal marking location	Class III equipment	N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal:	一 计讯检测	N/A
F.3.6.1.2	Protective bonding conductor terminals:	LCS Tes	N/A
F.3.6.2	Equipment class marking:		N/A
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking:	IPX0.	
F.3.8	External power supply output marking:		N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р



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Clause	Requirement + Test	Result - Remark	Verdict
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. 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 Refl ng Lab
F.4	Instructions	remained legible.	P
	a).Information prior to installation and initial use		P
	b).Equipment for use in locations where children not likely to be present		N/A
	c). Instructions for installation and interconnection		Р
	d). Equipment intended for use only in restricted access area		N/A
二长测股份	e). Equipment intended to be fastened in place	二会测股份	N/A
CS Testing L	f). Instructions for audio equipment terminals	T Wisting Land	N/A
	g). Protective earthing used as a safeguard	15	N/A
	h) Protective conductor current exceeding ES2 limits		N/A
	i). Graphic symbols used on equipment		Р
	j). Permanently connected equipment not provided with all-pole mains switch		N/A
	k) Replaceable components or modules providing safeguard function		N/A
	l). Equipment containing insulating liquid		N/A
	m) Installation instructions for outdoor equipment	77.4	N/A
F.5	Instructional safeguards	拉洲地	N/A
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General	No switch 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	No relay used.	N/A



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices	-	N/A
G.3.1	Thermal cut-offs	No thermal cut-offs provided within the equipment.	N/A
4 ti	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	女讯检 ^测	N/A
151 L	Thermal cut-outs tested as part of the equipment as indicated in c)	150 rcs is	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	No thermal link provided within the equipment.	N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	No PTC thermistor used.	N/A
G.3.4	Overcurrent protection devices	- 语位测度 ⁷⁷	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	US Testino	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
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	3	N/A
G.5	Wound components	立语位为	N/A
G.5.1	Wire insulation in wound components	For real	N/A
G.5.1.2	Protection against mechanical stress		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):		_



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田松测版	IEC 62368-1	TIME SINGLAD	······································
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
G.5.3.1	Compliance method:		N/A
	Position:		N/A
	Method of protection:		N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:	- A-T	_
G.5.3.3	Transformer overload tests	VST CSTEST	N/A
G.5.3.3.1	Test conditions	1	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		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:	知检测股份 188	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	STesting L	N/A
G.5.3.4.5	Thermal cycling test and compliance		N/A
G.5.3.4.6	Partial discharge test		N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements		N/A
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test		N/A
江山	Test duration (days):	立语性的	_
G.5.4.5	Running overload test for DC motors	- SA res	N/A
G.5.4.5.2	Tested in the unit		N/A
G.5.4.5.3	Alternative method		N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature:		N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage:		_
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements	_ 12	N/A
WS T	Туре:	VS I IIVI	_
G.7.2	Cross sectional area (mm² or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material	和检测股 ^例	N/A
G.7.4	Cord Entry	ICS Testing	N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, D (mm)	:	_
	Radius of curvature after test (mm):		_
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements	立语证	N/A
G.7.6.2.2	Test with 8 mm strand	- For real	N/A
G.8	Varistors		N/A
G.8.1	General requirements		N/A
G.8.2	Safeguards against fire		N/A
G.8.2.1	General		N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test		N/A



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Ol cing	D . T I Wing Lab	THE COLOR	4 1 Mm
Clause	Requirement + Test	Result - Remark	Verdict
G.9	Integrated circuit (IC) current limiters		N/A
G.9.1	Requirements	No IC current limiter provided within the equipment.	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	上语位T	N/A
G.10.1	General	No such resistor as safeguard used	N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test	No such resistors	N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements	-alla	N/A
G.11.2	Conditioning of capacitors and RC units	サ語類 Mac Lab	N/A
G.11.3	Rules for selecting capacitors	CS Testing	N/A
G.12	Optocouplers		N/A
	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	股份P ng Lab
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





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可检测股份	IEC 62368-1	对检测股价	m the
Clause	Requirement + Test	Result - Remark	Verdict
	Distance through insulation:		N/A
	Number of insulation layers (pcs):		_
G.13.6	Tests on coated printed boards		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	100	N/A
G.15.1	Requirements	No such device provided within the equipment.	N/A
G.15.2	Test methods and compliance		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	和检测股份	N/A
G.15.2.6	Force test	I STesting Land	N/A
G.15.3	Compliance	1	N/A
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:		1
	Mains voltage that impulses to be superimposed on	- 祖位河	
151	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:	LCS Tost	_
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





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加检测规划	IEC 62368-1	·····································	an to
Clause	Requirement + Test	Result - Remark	Verdict
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):		_
H.3.1.2	Voltage (V):		_
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	IST ICS TOST	N/A
H.3.2.2	Tripping device	112	N/A
H.3.2.3	Monitoring voltage (V):		N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
J.1	General		N/A
	Winding wire insulation:		_
	Solid round winding wire, diameter (mm):		N/A
公测股份	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	公测股份	N/A
J.2/J.3	Tests and Manufacturing	I Haring Lab	THE TO
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
	Instructional safeguard:	No safety interlock provided within the equipment.	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	m to T	N/A
K.6	Mechanically operated safety interlocks	VS TOST	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 circu elements	iit	N/A
	In circuit connected to mains, separation distance for contact gaps (mm):		N/A
	•		



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河检测股	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	In circuit isolated from mains, separation distance 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		ITS N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Batteries and their cells comply with relevant IEC standards	No battery used.	N/A
M.3	Protection circuits for batteries provided withit the equipment	n	N/A
M.3.1	Requirements		N/A
M.3.2	Test method		N/A
	Overcharging of a rechargeable battery		N/A
	Excessive discharging		N/A
	Unintentional charging of a non-rechargeable batt	ery	N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance		N/A
M.4	Additional safeguards for equipment containing battery	g a portable secondary lith	nium N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Requirements		N/A
M.4.2.2	Compliance	:	N/A
M.4.3	Fire enclosure		N/A



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田检测版》	IEC 62368-1	THE TOP LAB	nta
Clause	Requirement + Test	Result - Remark	Verdict
M.4.4	Drop test of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	,	N/A
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test		N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short-circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Test method and compliance		N/A
M.6	Safeguards against short-circuits		N/A
M.6.1	External and internal faults		N/A
M.6.2	Compliance		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration	No such part	N/A
	Calculated hydrogen generation rate:		N/A
M.7.2	Test method and compliance		N/A
iHim Mang Li	Minimum air flow rate, Q (m³/h):	H Washing Lab	N/A
M.7.3	Ventilation tests	102.00	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 external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General		N/A
M.8.2	Test method		N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):		_
M.8.2.3	Correction factors:		_
M.8.2.4	Calculation of distance d (mm):		



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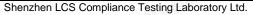




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- V	rage 33 01 74	Kepoit No.: LCSATIO	71221200
IEC 62368-1			
Clause	Requirement + Test	esult - Remark	Verdict
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse		N/A
	Instructional safeguard:		N/A
N	ELECTROCHEMICAL POTENTIALS		N/A
	Material(s) used:		_
0	MEASUREMENT OF CREEPAGE DISTANCES AND	CLEARANCES	N/A
	Value of X (mm):		_
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		N/A
P.1	General	No PS3 circuits	N/A
P.2	Safeguards against entry or consequences of entry	of a foreign object	N/A
P.2.1	General	No opening	N/A
P.2.2	Safeguards against entry of a foreign object		N/A
	Location and Dimensions (mm):		_
P.2.3	Safeguards against the consequences of entry of a foreign object		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	_二 讯检测	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 WIT	TH BUILDING WIRING	Р
Q.1	Limited power sources		Р
Q.1.1	Requirements		Р
	a) Inherently limited output		N/A





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: 1 检测股气	IEC 62368-1	和检测股份 ab	in the
Clause	Requirement + Test	Result - Remark	Verdict
	b) Impedance limited output		Р
	c) Regulating network limited output		N/A
	d) Overcurrent protective device limited output		N/A
	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance	: (see table Annex Q.1)	Р
	Current rating of overcurrent protective device (A)	:	N/A
Q.2	Test for external circuits – paired conductor ca	able	N/A
	Maximum output current (A)	:	N/A
	Current limiting method	:	_
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General	No such consideration.	N/A
R.2	Test setup		N/A
	Overcurrent protective device for test	:	_
R.3	Test method		N/A
	Cord/cable used for test	:	_
R.4	Compliance		N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material	: Certified fire enclosure used.	_
	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 enclo	sure	N/A
S.3.1	Mounting of samples		N/A
S.3.2	Test method and compliance		N/A
	Mounting of samples	:	_



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讯检测版	IEC 62368-1	· ···································
Clause	Requirement + Test Result - Remark	Verdict
	Wall thickness (mm):	_
S.4	Flammability classification of materials	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	N/A
T.1	General	N/A
T.2	Steady force test, 10 N:	N/A
T.3	Steady force test, 30 N:	N/A
T.4	Steady force test, 100 N:	N/A
T.5	Steady force test, 250 N:	N/A
T.6	Enclosure impact test	N/A
	Fall test	N/A
	Swing test	N/A
T.7	Drop test:	N/A
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 TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION	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
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Clause	Requirement + Test	Result - Remark	Verdict
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
Х	ALTERNATIVE METHOD FOR DETERMINING CLE IN CIRCUITS CONNECTED TO AN AC MAINS NOT (300 V RMS)		N/A
	Clearance:		N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDOO	R ENCLOSURES	N/A
Y.1	General		N/A
Y.2	Resistance to UV radiation		N/A
Y.3	Resistance to corrosion		N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:		N/A
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure:		N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets	对用检测RZ lab	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



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IEC 62368-1								
Clause	Requirement + Test	Result - Remark	Verdict					
Y.6	Mechanical strength of enclosures		N/A					
Y.6.1	General		N/A					
Y.6.2	Impact test	:	N/A					







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证证测控制	ab Lat IE	C 62368-1	- : : I 检 i
Clause	Requirement + Test	Result - Remark	Verdict

5.2	TABLE: Classification of electrical energy sources						Р
Supply Voltage	Location (e.g.	Test conditions	Parameters				ES Class
Vollage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info 2)	Class
5Vdc	Internal circuits	Normal	5Vdc				ES1
9Vdc	Internal circuits	Normal	9Vdc				ES1

Supplementary information:

- 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	TABLE: Working voltage measurement						
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments		
Supplement	ary information:						

.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method		: ISO 306 / B50	V.5 —		
Object/ Part No./Material	Part No./Material Manufacturer/trademark Thickness (mm)		T softening (°C)		
Supplementary information:					

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics						
Allowed impression diameter (mm) ≤ 2 mm					m		_
Object/Part No./Material		Manufacturer/trademark	Thickness (mm)				ression eter (mm)
- 181	STestins	IST LCS	estille		1/5/	US Test	1110
Supplement	ary information:						

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



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云语检测度	Lab 二讯位	IEC 62368-1	古讯检测版 17	一话位
Clause	Requirement + Test	1/2	Result - Remark	Verdict
Suppleme	entary information:			
1) Only fo	or frequency above 30 kHz			
2) Compl	ete Electric Strength voltage (E	E.S. (V) when 5.4.2.4 ap	plied)	

5.4.4.2	TABLE: Minimum distance through insulation						
Distance thr (DTI) at/of	ough insulation	Peak voltage (V)	Insulation	Required DTI (mm)	Mea	sured DTI (mm)	
	~ 测股份		·····································		-	服份	
Supplement	ary information:	立语和	sting Lab	江江	A Tes	ing Lab	

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz						N/A
Insulation m	aterial	E_{P}	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
Supplement	ary information:						

5.4.9	TABLE: Electric strength tests	ABLE: Electric strength tests						
Test voltage applied between:		Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdow Yes / No				
Supplement	ary information:							

5.5.2.2	TABLE:	Stored discharge o	n capacitors			N/A
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class
Supplemen	tary inforr	nation:	公测股份		- 1	A.测度份
X-capacitor	s installed	d for testing:				
bleeding resistor rating:						
☐ ICX:						
1) Normal	operating	condition (e.g., norm	al operation, or open	fuse), SC= sho	rt circuit, OC= o	pen circuit

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



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Clause	Requirement + Test	Result - Remark	Verdict
Suppleme	entary information:		

5.7.4 TABLE: Unearthed accessible parts							N/A
Location		Operating and	Supply	F	ES		
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	class
	. 11			. nr. 42			m H

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed accessi	TABLE: Earthed accessible conductive part					
Supply volta	ige (V):				_		
Phase(s):		[] Single Phase; [] Three F	[] Single Phase; [] Three Phase: [] Delta [] Wye				
Power Distri	bution System:	□TN □TT □IT					
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comm	ent		
Ling La	女讯检	ting Lab	工讯检测的Lab		立讯检		
Supplementary Information:							

5.8	TABLE:	ΓABLE: Backfeed safeguard in battery backed up supplies							
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class		
Supplement	Supplementary information:								
Abbreviation	Abbreviation: SC= short circuit, OC= open circuit								

6.2.2 TABLE: Power source circuit classifications (For charging box)								
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class		
Internal circuit	Normal condition			<100W	5s	PS2		
Wireless output	Normal condition	9.0	1.58	14.22	3s	PS1		

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.



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- 田检测版	(b) Lab Lab IE	EC 62368-1	上田检河
Clause	Requirement + Test	Result - Remark	Verdict

6.2.3.1	TABLE: Determi	TABLE: Determination of Arcing PIS						
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value		cing PIS? 'es / No		
				-				
Supplement	ary information:							

6.2.3.2	TABLE: Determin	LE: Determination of resistive PIS							
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No					
Internal circuit				Yes					
				(definition)					

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

- 3) A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter. If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.
- 1) A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

All components located within the EUT are considered as resistive PIS.

8.5.5	TABLE:	: High pre	ligh pressure lamp								N/A
Lamp manufacturer Lamp type						Explosion	n method	Longest a glass par (mm)	rticle	be	ticle found yond 1 m 'es / No
						-		-			
Supplementary information:											
CH SH Inn								111日日			
9.6	TABLE:	: Tempera	emperature measurements for wireless power transmitters								Р
Supply volta	age (V)			:	9Vdc			1	ST IC	5 '	_
Max. transm	nit power	of transmi	tter (W)	:	10W						_
			eiver and contact			eiver and contact		ver and at of 2 mm			er and at of 5 mm
Foreign objects Object			Ambient (°C)	Object (°C)		Ambient (°C)	Object (°C)	Ambient (°C)	Obje (°C		Ambient (°C)
Steel d	lisc	31.2	25.0	31.0		24.3	29.7	24.9	30.	1	25.0
Aluminun	n ring	30.9	24.7	29	9.8	24.2	29.8	25.0	30.	7	25.1



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				IEC 6	2368-1				
Clause	Require	ment + Tes	t LCS Testi		18	Result -	Remark	1	Verdict
Alumin	ium foil	30.4	25.2	29.7	25.1	29.5	25.1	30.2	25.0
Suppleme	entary infor	mation:				1			

5.4.1.4, 9.3, B.2.6	B.1.5,	TABLE:	Temperat	ure m	eası	ıreme	ents					Р
	Supply volta	age (V)		.:		5 V	d.c.			9 Vd	.C.	_
	Ambient T _m	_{in} (°C)		.:								_
	Ambient T _m	_{ax} (°C)		.:	: IA TE		(j)				一识检测	_
MSA LO	Tma (°C)			ASA T	CSTOSTING VSA CSTOS					LCS Test	_	
Maximum measured temperature T of part/at:				at:				Т (°C)			Allowe d T _{max} (°C)
PCB near U1					45	.3			47.5			130
PCB near Q	2				49	.7			50.4			130
PCB near Q	1				42	.1				43.5		130
Core					40	40.2			44.7			130
Winding					43	.2			45.6			130
Plastic encl	osure inside	near win	ding	(1)	37	.1		- n#	MI	38.5		Ref.
Plastic encl	osure outsid	e near wi	nding		36	.1	NS T	T No. Te	stin	37.4	VG	77
Ambient		The second			25	.0				25.0	72	
Supplement	ary informat	ion: (load	l: Wireless	Outpu	ıt: 10	W Ma	ax)			·		
Temperature	e T of windir	ng:	t ₁ (°C)	R ₁ ((Ω)	t ₂ (°	°C)	R ₂ (£	2)	T (°C)	Allowed T _{max} (°C)	Insulat ion class

Supplementary information:

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

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





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一识检测的	IEC 62368-1						
Clause	Requirement + Test	Result - Remark	Verdict				

B.2.5	TABLE: In	put test						Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/s	tatus
5Vdc	1.15	2	5.75				Working nomal(I Max)	oad :5W
9Vdc	1.27	2	11.43				Workingnomal(lo	oad :10W

Supplementary information:

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

-71	This is a lab						led to
B.3, B.4 TA	BLE: Abnor	mal operatin	g and fau	ılt conditio	n tests	MST ICS Tes	ing P
Ambient temper	ature T _{amb} (°	C)			.: See belo	ow	
Power source for	r EUT: Manı	ufacturer, mod	del/type, d	utputrating.	:		_
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	n
U1 Pin 1-5	SC	9Vdc	10mins			Input current: 0.001/ Unit shut down imm recoverable. After to damage, no hazard.	ediately, est, no
Q1 Pin 1-3	SC	9Vdc	10mins		工讲检测 Tucs Testin	Input current: 0.001/ Unit shut down imm recoverable. After te damage, no hazard.	ediately, est, no
Q2 Pin 1-3	SC	9Vdc	10mins	1		Input current: 0.001/ Unit shut down imm recoverable. After te damage, no hazard.	A. ediately, est, no
Wireless output	Overload	9Vdc	3hrs			Wireless output may current 1.58A, wirele power is 14.22W,wh it, Unit shut down immediately, recove After test, no damage	ess output nen reach rable.
THE LOST OF	加度份 sting Lab		TSI T	用检测股份 S Testing Lat		hazard. Plastic enclosure outside/42.3°C; Ambient/25.0°C.	则股份 ting Lab

Supplementary information:

- 1) SC: Short-circuited; OC: Over-charged; ED: Excessive-discharged
- 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: Protection circuits for batteries provided within the equipment	N/A
-----	--	-----



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田检测版的)	上语位 ^图		IEC 623	368-1	: بد	H检测	IND 173			二讯检
Clause	Requirement	+ Test	lino		1/5	Re	sult -	Remark		18	Verdict
Is it possible	to install the	battery in a rev	verse	e polarity p	osition?	:	No				_
					Cł	nargi	ng				
Equipment S	Specification		Voltage (V)						Current (A)		
					Battery	spe	cificati	on			
		Non-recharge	able	batteries			Rech	nargeabl	e batteries		
	Discharging current (A)			ntentional	Charging			Discharging		Reverse	
Manufact	turer/type			harging rrent (A)	Voltage	(V)	Curr	ent (A)	current (A)		harging rrent (A)
ISI LC	S 1 65		LCS						Next-rest	35-	
Note: The tes	sts of M.3.2 a	re applicable o	nly v	vhen above	e appropri	ate d	lata is	not ava	ilable.		
Specified ba	ttery tempera	nture (°C)				:					
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent (A)	Voltage (V)	e Obse	rva	tion
一点测股份		- LO 3	川股	h			T. a.	股份			10
oc Testing Lar		T Till The Tes	ting l		We	立	E Test	Ina _{Fan}		X 6	THE
~ I		The Local Post									

Supplementary information:

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







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- 油矿剂脂	此 Lab 其独 ^{测度代}	C 62368-1	上讯检节
Clause	Requirement + Test	Result - Remark	Verdict

M.4.2	TABLE: battery	Charging saf	feguards for	equipment co	ontaining a s	econdary lithium	N/A		
Maximum specified charging voltage (V): :									
Maximum specified charging current (A):									
Highest specified charging temperature (°C):: :									
Lowest spec	ified cha	rging temperat	ure (°C)		.:				
Battery	1.	Operating		Measurement		Observation	n		
manufacture	er/type	and fault condition	Charging voltage (V)						

Supplementary information:

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

Q.1	TABLE: Circuits inte	TABLE: Circuits intended for interconnection with building wiring (LPS)						
Output Circuit	Condition	U _{oc} (V)	Time (s)	I _{sc} (A)		S (\	/A)	
	Condition	O _{oc} (V)	111116 (5)	Meas.	Limit	Meas.	Limit	
Wireless output	Normal condition	9.0	5	1.58	8	14.22	100	

Supplementary Information:

Abbreviation: SC= short circuit

T.2, T.3, T.4, T.5	TABLE	ABLE: Steady force test								
Part/Location		Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obse	rvation		
VS-	STestin		WS CS	Lestille		115	CSTest	1119		
Supplementary information:										

T.6, T.9	TABLE: Impact test								
Location/par	t	Material	Thickness (mm)	Height (mm)	Observation	n			
		-	-						
Supplementa	ary informatior	n:							



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一话检测版	出版	IEC 62368-1	上讯检节
Clause	Requirement + Test	Result - Remark	Verdict

T.7	TABLE: Drop	o test				N/A
Location/par	ť	Material	Thickness (mm)	Height (mm)	Observation	n
					-	
Supplementary information:						

T.8	TABLE: Stress relief test			N/A			
Location/Pa	rt	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	ation
7			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		12	-	
Supplementary information:							

Х	TABLE: Alternative method for determining minimum clearances distances			N/A	
Clearance of between:	listanced	Peak of working voltage (V)	Required cl (mm)	Measure (mm)	
Supplementary information:					



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Clause	Requirement + Test	Result - Remark	Verdict

4.1.2	TABLE	List of critical com	ponents			Р
Object No.	/ part	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Plastic enclos		FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	AC310(+)	V-0, 85°C, thickness 1.5mm	UL 94 UL 746	UL E56070
PCB	立讯节	SHENZHEN SHAN XU ELECTRONIC CO LTD	SX-M1	V-0, 130°C	UL 796	UL E360487
-Alt.	FCS ,	Interchangeable	Interchangeable	V-0, 130°C	UL 796	UL
Inducti	ve coil	SHENZHEN SONGDAO TECHNOLOGY CO., LTD.	G511-6.3UH	0.08*105P*10T S	IEC/EN 62368-1	Test with appliance

Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance. See OD-2039.



















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Attachment No.1

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IEC62368	1E - ATTA	ACHMENT

Clause Requirement + Test Result - Remark Verdict

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

Differences according to EN IEC 62368-1:2020+A11:2020

Attachment Form No...... EU_GD_IEC62368_1E

Attachment Originator: UL(Demko)

Master Attachment: 2021-02-04

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	CENELEC COMMON MODI	IFICATIONS (EN)	
	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018. Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".		
Add the following annexes:		. 17	
立语检测版》	Annex ZA (normative) with their corre	Normative references to international publications esponding European publications	立语检测的 cs Testing
	Annex ZB (normative)	Special national conditions	
	Annex ZC (informative)	A-deviations	
	Annex ZD (informative) cords	IEC and CENELEC code designations for flexible	
1	Modification to Clause 3.		
3.3.19	Sound exposure		N/A
	Replace 3.3.19 of IEC 62368	8-1 with the following definitions:	



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Attachment No.1 N/A 3.3.19.1 momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information. 3.3.19.3 sound exposure, E N/A A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa² s. $E = \int p(t)^2 \, \mathrm{d}t$ 3.3.19.4 sound exposure level, SEL N/A logarithmic measure of sound exposure relative to a reference value, E0, typically the 1 kHz threshold of hearing in humans. Note 1 to entry: SEL 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 N/A levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused Note 1 to entry: It is invalid to use dBFS for nonr.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a



10.6

10.6.1.1

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crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals

Safeguards against acoustic energy sources

Replace 10.6 of IEC 62368-1 with the following:

Safeguard requirements for protection against long-term exposure to excessive sound pressure

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may reach +3,01 dBFS. **Modification to Clause 10**

Introduction

N/A

N/A



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Attachment No.1

levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an **ordinary person**, that:

- is designed to allow the user to listen to audio or audiovisual content / material; and
- uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and
- has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).

EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.

Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.

NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.

NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose

measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.

Listening devices sold separately shall comply with the requirements of 10.6.6.

These requirements are valid for music or video mode only.

The requirements do not apply to:

professional equipment;

NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through

normal electronics stores are considered not to be professional equipment.

- hearing aid equipment and other devices for assistive listening;
- the following type of analogue personal music players:
- · long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and
- cassette player/recorder;

NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that



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Report No.: LCSA110122125S

Attachment No.1

LA:1111 192 17	Attachment No.1	1 - TILL BEZ 1/3	1111-2
立河型 LCS Testing La	within a few years it will no longer exist. This exemption will not be extended to other	LCS Testing Lab	LCS Testi
	technologies.	75	
	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 		
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.		
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods		
	and measurement distances apply.	III - 4.	经加
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	LCS Test	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 exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566.		
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2.1	General	I CS Testing La	N/A
TEG T	This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output <i>L</i> Aeq, <i>T</i> , 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 <i>L</i> Aeq, <i>T</i>) 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, <i>T</i> becomes the duration of the song.	LCS Test	
在讯检测度 ^化	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> Aeq, <i>T</i>) which is much lower than the average programme simulation noise. Therefore, if 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 average sound pressure of the song does not exceed the required limit. For example, if the player is set with the	在讯检测股份	



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Attachment No.1

10 Filli 10 F 11	Attachment No.1	- LA::\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	LO: -!!!!!
立河 Testing La	programme simulation noise to 85 dB, but the	立河 Testing Lab	工洲型
	average music level of the song is only 65 dB,	rcs / S	I LCS
	there is no need to give a warning or ask an		
	acknowledgement as long as the average sound		
	level of the song is not above the basic limit of 85		
10.6.2.2	dB. RS1 limits (to be superseded, see 10.6.3.2)		N/A
10.0.2.2	intermine (to be supersound, see release)		IN/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		ar 447
	listening device is known by other means such as	四位测	BZ IV
	setting or automatic detection, the LAeq, T acoustic	LCS Testi	ua ran
	output shall be ≤ 85 dB when playing the fixed	134 rcs	
	"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		
	≤ 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 per 10.6.3.2.		
40000	RS2 limits (to be superseded, see 10.6.3.3)	ar. 43	N1/A
10.6.2.3	Noz mints (to be superseded, see 10.0.5.5)	· · · · · · · · · · · · · · · · · · ·	N/A
	RS2 is a class 2 acoustic energy source that does	CS Testing	L'CS Testi
	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 LAeq, T		
	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		on 147
	allows connection to a listening device for general	加於那	HZ 113
	use, the unweighted r.m.s. output voltage shall be	LCS Testi	ua ran
	≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme	130 rcs	
	simulation noise" as described in EN 50332-1.		
10.6.2.4	RS3 limits		N/A
			1 N/ F\
	RS3 is a class 3 acoustic energy source that		
	exceeds RS2 limits.		
10.6.3	Classification of devices (new)		
10.6.3.1	General		N/A
	Previous limits (10.6.2) created abundant false		
	negative and false positive PMP sound level		
	warnings. New limits, compliant with The	人:111111111111111111111111111111111111	Illino A
	Commission Decision of 23 June 2009, are given	Tiff Ting Lab	古讯恒洲
- CETITIES	1 Commission Decision of 20 durie 2009, are given	- ACTION	1 2m - not!



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Attachment No.1

177 ANII 185 177	Attachment No.1	10 mg	18 IIII A.
Till The La	below.	THIT ting Lab	拉洲型
10.6.3.2	RS1 limits (new)	rcele	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, T acoustic		
	output shall be ≤ 80 dB when playing the fixed		
	"programme simulation noise" described in EN		
	50332-1. – for equipment provided with a standardized		股份
	connector (for example, a 3,5 phone jack) that	古语位派	ng Lab
	allows connection to a listening device for general	1 LCS Test	
	use, the unweighted r.m.s. output voltage shall be		
	≤ 15 mV (analogue interface) or -30 dBFS (digital		
	interface) when playing the fixed "programme simulation noise" described in EN 50332-1.		
10.6.3.3	RS2 limits (new)		N/A
	, ,		IN/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 where the combination of player and	- BT-447	1
	listening device is known by other means such as	上 in the jill fix to	1/8
	setting or automatic detection, the weekly sound	CS Testing	TLM CSTON
	exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme"	14	
	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 ≤ 15 mV (analogue interface) or -30 dBFS		
	(digital interface) when playing the fixed		
	"programme simulation noise" described in EN		
10.6.4	50332-1. Requirements for maximum sound exposure		N/A
10.6.4.1	Measurement methods		Dr.
VST	STEED TO STE	VIST CS Testi	N/A
	All volume controls shall be turned to maximum	1	
	during tests.		
	Measurements shall be made in accordance with		
	EN 50332-1 or EN 50332-2 as applicable.		
0.6.4.2	Protection of persons		
	Execut as given below protection requirements for		
	Except as given below, protection requirements for parts accessible to ordinary persons, instructed		
		1	
	persons and skilled persons are given in 4.3.		
		一股份	_a V.



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N/A

N/A

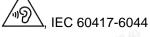
Attachment	No.1
------------	------

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 . (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

A **skilled person** shall not be unintentionally exposed to RS3.

General requirements

10.6.5 Requirements for dose-based systems 10.6.5.1

> Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.

The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to



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Attachment No.1

小河川东	Attachment No.1	10 - TILL BZ 773	////F-A
	promote a better user experience without defeating	Till Tasting Lab	五清和
	the safeguards. This allows the users to be	rce /e	I LCS
	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.		
	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	line .	验份
		上:开位799	Lab
	contribute to their sound exposure, for example	VE Testi	19
	work, transportation, concerts, clubs, cinema, car	1/3/1 /02	
	races, etc.		
0.6.5.2	Dose-based warning and requirements		N/A
	When a dose of 100 % CSD is reached, and at		
	least at every 100 % further increase of CSD, 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.		
	The warning shall at least clearly indicate that		
	listening above 100 % CSD leads to the risk of		
	(0/23/11	-miRQ (A)	////
0.6.5.3	hearing damage or loss.	THE THINK LAD	- 13 KE 199
0.6.5.3	Exposure-based requirements	CS Testins	N/A
	With only dose-based requirements, cause and	1	
	effect could be far separated in time, defying the		
	purpose of educating users about safe listening		
	practice. In addition to dose-based requirements,		
	a PMP shall therefore also put a limit to the short-		
	term sound level a user can listen at.		
	The averaging board limiter (FL) shall average allow		
	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	- call	股份
	reduction to reaching target output) shall be 10 s or	一识检测	Lab
	faster.	LCS Testi	19
		Too I Los	
	Test of EL functionality is conducted according to		
	EN 50332-3, using the limits from this clause. For		
	EN 50332-3, using the limits from this clause. For		
	EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its		
	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		
	EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted		
	EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than		
	EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more		
	EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than		
	EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more		
10.6.6	EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.		



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	Attachment No.1		
10.6.6.1	Corded listening devices with analogue input	Hawaing Lab	N/A
	With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV.		LCS
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.		- 112
10.6.6.2	Corded listening devices with digital input	二	N/A
E T	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 $LAeq$, T acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS.	LCS Testi	69 23
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 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 ≤ 100 dB with an input signal of -10 dBFS.	A检测股份 STesting Lab	工讯位测 LCS Testi
10.6.6.4	Measurement method		N/A
江江	Measurements shall be made in accordance with EN 50332-2 as applicable.	立讯位制	股份 ng Lab
3	Modification to the whole document		



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Attachment No.1

LCS Testing Lan	list:	_	Les Los			.00		Tes.
	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	
		.4.2.3.2.4 able 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	
	5	.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	加报份
	5	.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	iting Lab
	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	
	1	0.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
	Y	.4.5	Note					
RTS 453	Mod	ification t	to Clause 1	023 713		and Philip 7.1.2		
CS Tes	Add	the follow	ving note:		NSI v	OS Tes		N/A
	and	electronic	use of certair equipment is 2011/65/EU.					

5 Modification to 4.Z1





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Attachment No.1

	Attachment No.1		
4.Z1 Testing La	Add the following new subclause after 4.9: 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 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	Los Testing Lab Los Testing Lo	N/A
6	of the wall socket outlet.	-a th 1111 122 1	
· ·	Modification to 5.4.2.3.2.4		
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.		N/A
	Modification to 10.2.1		
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.		N/A

8	Modification to 10.5.1	



3



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Attachment No.1

Attachment No.1		
Add the following after the first paragraph:	Little Manual Lab	N/A
For RS 1 compliance is checked by measurement under the following conditions:	TCo.	Los
In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.		
NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	,二 工语检测	股份 ng Lab
The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.	Tos.	
Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.		
For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	L讯检测股份	- 30
NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	LCS Test.	I LOS TO
Modification to G.7.1		
Add the following note:		N/A
NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		
	For RS 1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus. Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996. Modification to G.7.1 Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in	For RS 1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus. Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996. Modification to G.7.1 Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in



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Attachment No.1

44 三川 报文 竹	At:	tachment No.1	4A - TILL BE (7)		/III
立河 wing Lar	Add the following notes for the st	andards indicate	d: 立洲 asing Lab		N/A
LCSTES	Wei reales			Me	LCSTES
	IEC 60130-9 NOTE Harr	nonized as EN 60	130-9.		
	IEC 60269-2 NOTE Harr	nonized as HD 60	269-2.		
	IEC 60309-1 NOTE Harr	nonized as EN 60	309-1.		
			d in HD 384/HD 60364 series.		
		nonized as EN 60			
		nonized as EN 60			
			032:1998 (not modified).		
		nonized as EN 61	*		
		nonized as EN 61			
		nonized as EN 61			
		nonized as EN 61			
		nonized as EN 61		-17	工份
		nonized as EN 61		公测	1 ab
TI III		nonized as EN 61 nonized as EN 61		estir	g
TIST IC				, -	
		nonized as EN 61			
	IEC 61643-331 NOTE Harr	nonized as EN 61	643-331.		
11	ADDITION OF ANNEXES				
ZB	ANNEX ZB, SPECIAL NATIONA	L CONDITIONS	(EN)		
4.1.15	Denmark, Finland, Norway and	Sweden			N/A
					,
	To the end of the subclause the fo	ollowing is			
	added:				
	Class I pluggable equipment ty				
- RE 43	for connection to other equipment		- RG (5)		
上 · · · · · · · · · · · · · · · · · · ·	network shall, if safety relies on c		Tab Managara		上语检测
IL Microsting	reliable earthing or if surge suppr		工说 Testing Lab	We	TLYCEsti
100	are connected between the netwo		2 100	-//-/	100
	and accessible parts, have a ma				
	that the equipment shall be conne	ected to an			
	earthed mains socket-outlet.				
	The marking text in the applicable	countries shall			
	be as follows:				
	In Donmark: "Apparatote etikoron	akal tilaluttaa			
	In Denmark : "Apparatets stikpropen stikkontakt med jord som give				
		iorbindeise tii			
	stikproppens jord." In Finland : "Laite on liitettävä suo	niakoekottimilla			
	varustettuun pistorasiaan"	jakoskettiiriilia			. 08
	In Norway : "Apparatet må tilkople	s jordet		1111:04	及仍
T.V	stikkontakt"	3 JUIUCI	一位	H Jim Ix	g Lab
MST LC	MS	utaa till jandet	E II	STest	
	In Sweden : "Apparaten skall ansl	utas tili jordat			
	uttag"				



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Attachment No.1

上田恒 just Lat	Attachment No.1	- · · · · · · · · · · · · · · · · · · ·	上海检测
4.7.3	United Kingdom	CS Testins	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		
	see Annex G.4.2 of this annex		
5.2.2.2	Denmark		N/A
	After the 2nd paragraph add the following:		
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	拉哥拉河	及份 g Lab
5.4.11.1	Finland and Sweden	MST LCS Testi	N/A
and 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		
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	TiR检测股份 CSTesting Lab	立语检测 LCS Testi
	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), and 	LCS Testin	度份 g Lab
	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 60384-14:2005, may bridge this insulation under the following conditions:	14 测股份	



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Attachment No.1

Lar ittlize Lar	Attachment No.1	F 14(12) Lav	7-34/12
LCS Testing	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;	CS Testing	
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;		
	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.	· · · · · ·	是份
5.5.2.1	Norway	世界位 20	N/A
War res	After the 3rd paragraph the following is added:	USA LCS TOSE	
	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:		
份銀加	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.	-m RQ (f)	
5.6.1	Denmark	Till Ing Lab	N/A
LCSTesting	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:	CS Testing	LCS Testin
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		
5.6.4.2.1	Ireland and United Kingdom		N/A
TE THE	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.	Les Testi	
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.		



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Attachment No.1

	Attachment No.1		
5.6.5.1	To the second paragraph the following is added:	CS Testing	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	· 1 徐测	N/A
	To the end of the subclause the following is added:	LCS TOSTI	ig ran
	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
立形位测股份 LCS Testing Lab	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.	上讯检测股份 CS Testing Lab	立讯检测师 LCS Testin
	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:	TAT LCS Tostil	设化 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 60728-11)"	nr. (A)	الله الله الله الله الله الله الله الله
	The state of the s	THE THE THE	



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- HIM Lab	Attachment No.1	上記述 Lab	一江河
LCS Testing	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.	CS Testins	LCS Testin
	Translation to Norwegian (the Swedish text will also be accepted in Norway):		
TET LCS	"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."	TH LCS Tosti	
	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 medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."		
8.5.4.2.3	United Kingdom		N/A
工讯检测股份 LCS Testing Lab	Add the following after the 2 nd dash bullet in 3 rd paragraph:	上讯检测股份 Los Testing Lab	
	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,		
Tes Tri	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	LCS Tosti	及份 g Lab
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.		
拉河股份	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect	一种那段份	اللاز هد س



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Attachment No.1

	Attachment No.1		
LCS Testino	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.	CSTestins	LCS Testing
	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.		
大羽	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.	立讯检查	Walab
Tea ros	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	ST LCS Tos	
	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		
	Justification:		
	Heavy Current Regulations, Section 6c		
G.4.2	United Kingdom	工绘测股份	N/A
	To the end of the subclause the following is added:	CS Testing Lab	(19)
	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.	1	*
G.7.1	United Kingdom		N/A
	To the first paragraph the following is added:		
TE TOS	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	LCS TOS	设设 Lab
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		





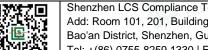
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Attachment No.1

	Attachment No.1		
G.7.1	Ireland Ics Testing	LCS Testing	N/A
	To the first paragraph the following is added:		
G.7.2	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 Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over 10 A	Tin 检测	N/A
	and up to and including 13 A.		
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		
10.5.2	Germany		N/A
	The following requirement applies: 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. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet:	上开检测股份 CS Testing Lab	工讯检测 LCS Test





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	Type of flexible cord		Code designations	
		IEC	CENELEC	-
	PVC insulated cords			1
	Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	
	Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	版价 mg Lab
	Rubber insulated cords			1
	Braided cord	60245 IEC 51	H03RT-F	
	Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	
	Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	
	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
	Cords having high flexibility	•		1
	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H	~ 167
Little Testing Law	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	LCS Tes
	Cords insulated and sheathed with halogen- free thermoplastic compounds			
	Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	
	Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	







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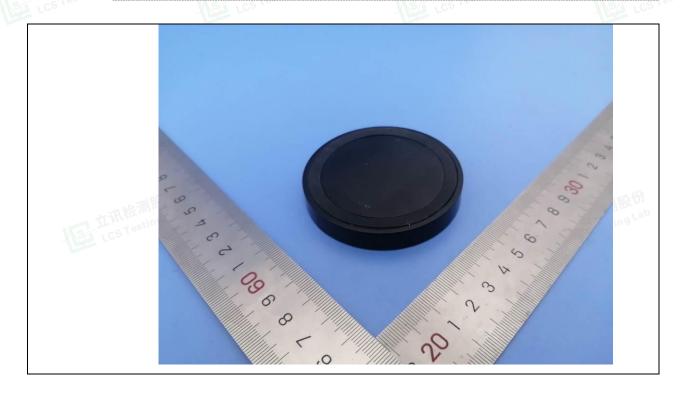
Attachment No.2

Details of:

External view



Details of: External view





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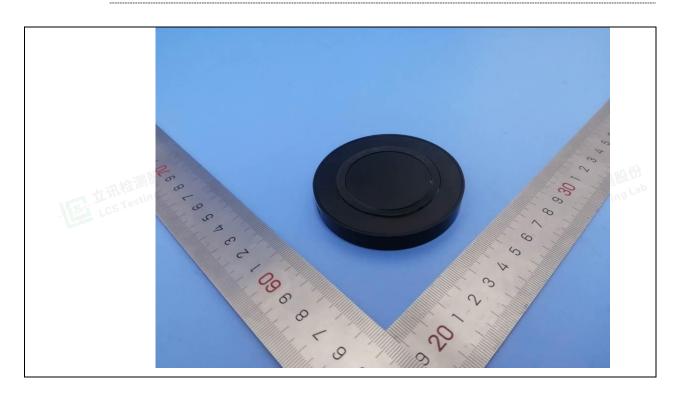
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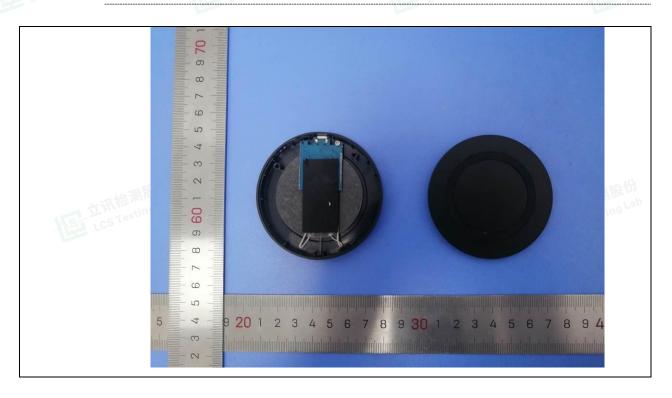
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Attachment No.2

Details of: External view



Details of: Internal view





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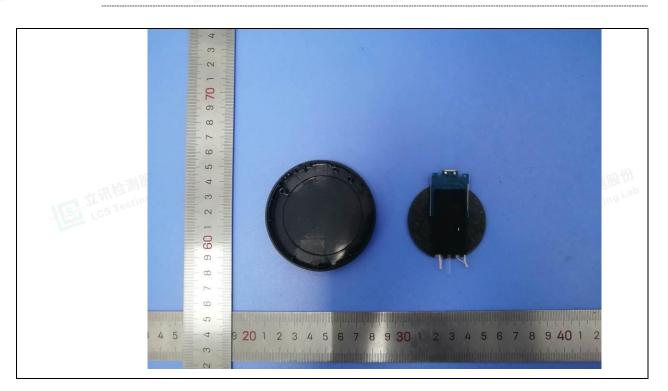
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Attachment No.2

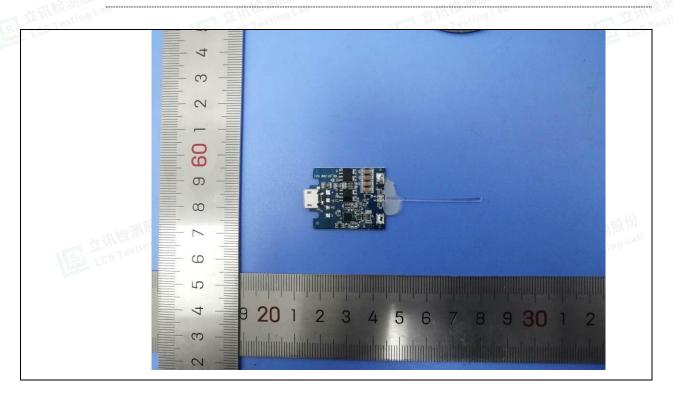
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Details of:

Internal view



Details of: PCB View





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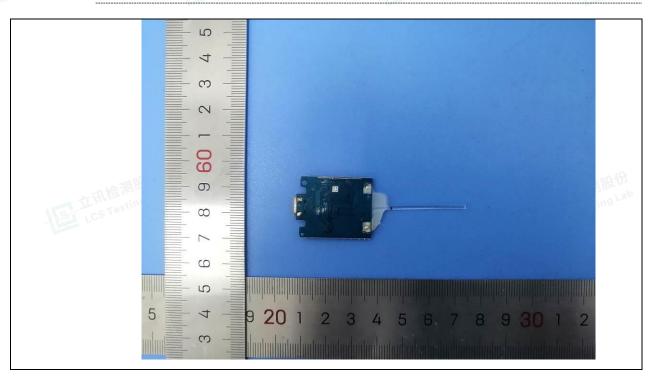


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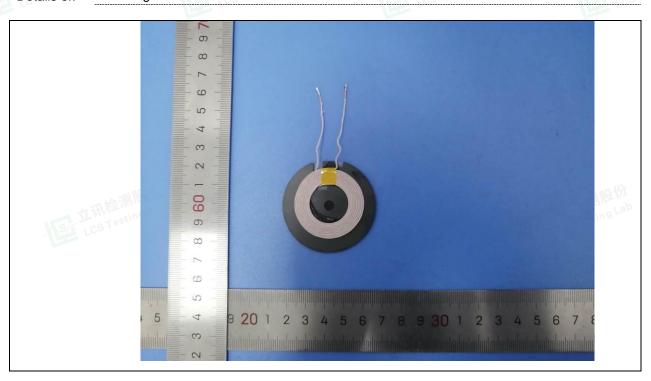
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PCB View Details of:



Winding View Details of:





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Winding View Details of:



-----End of Test report-----









