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TEST REPORT EN 62368-1

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

Report Number:	LCSA050923065S		
Date of issue:	2023-05-16		
Total number of pages:	75		
Name of Testing Laboratory preparing the Report:	Shenzhen LCS Compliance Testing Laboratory Ltd.		
Applicant's name:	Mid Ocean Brands B.V.		
Address :	7/F., Kings Tower,111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong		
Test specification:			
Standard	EN IEC 62368-1:2020+A11:2020		
Test procedure:	Type test		
Non-standard test method :	N/A		
TRF template used	IECEE OD-2020-F1:2021, 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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Shenzhen LCS Compliance Testing Laboratory Ltd. Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China Tel: +(86) 0755-8259 1330| Fax: +(86) 0755-8259 1332 | E-mail: webmaster@lcs-cert.com | http:// www.lcs-cert.com

	ALL CONTRACTOR	Page 2 of 75	Report No.: LCSA050923065
Test item description:	Ultrath	nin wireless charger	Test LOS T
Trade Mark(s):	N/A		
Manufacturer:	11462	8	
Model/Type reference:	MO97	63	
Ratings	Input:	5V===2A / 9V===1.67	A ;
	Wirele	ess Output: 5V===1A / 9	9V===1.1A
Testing location/ address	T	Juji Industrial Park, Ya	ling A and Room 301, Building C, abianxueziwei, Shajing Street, zhen, Guangdong, China
Prepared by	:	Gray Gong Project Handler	Gray Gong
Checked by	:	Terry zhu Reviewer	Jenny Vhm
Approved by	196966 198966 1980 1980	Hart Qiu Technical Director	Hur USi

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- Attachment No. 1: National Differences	
-Attachment No. 2: Photo Documentation	
Summary of testing:	
Tests performed (name of test and test clause):	Testing location:
Electrical safety:	Shenzhen LCS Compliance Testing Laboratory Ltd.
EN IEC 62368-1:2020+A11:2020	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing
Contraction of the second	Street, Bao'an District, Shenzhen, Guangdong, China
Summary of compliance with National Difference	er osting Law

Summary of compliance with National Differences:

List of countries addressed: National Differences and Group Differences as refer to Attachment No. 1.

The product fulfils the requirements of EN IEC 62368-1:2020+A11:2020

List of Attachments (including a total number of pages in each attachment):

Use of uncertainty of measurement for decisions on conformity (decision rule) :

No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)

Information on uncertainty of measurement:

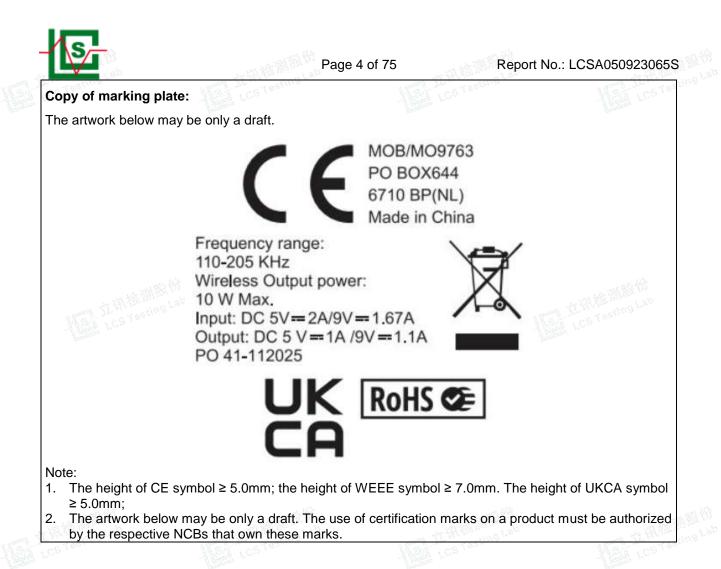
The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

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



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Test item particulars:			
Product group:	end product	built-in compor	nent
Classification of use by:	 ☑ Ordinary perso ☑ Instructed pers ☑ Skilled person 		ren likely present
Supply connection:	AC mains not mains conr ES1	DC n nected: ES2 ES3	nains
Supply tolerance:	☐ +10%/-10% ☐ +20%/-15%		
Supply connection – type:		% pment type A -	立刑检测版的 LCS Testing Lab
	☐ applia ☐ direc ☐ pluggable equi ☐ non-c	detachable supply c ance coupler t plug-in pment type B - detachable supply c ance coupler inection	
	other: Not direct	ctly connected to th	e mains
Considered current rating of protective device:	A; Location:	building	equipment
Equipment mobility:	 ⋈ N/A ⋈ movable in direct plug-in in wall/ceiling-model 	hand-held stationary	☑ transportable☑ for building-in
Overvoltage category (OVC):	other: OVC I OVC IV	☐ OVC II ⊠ other: Supplied	☐ OVC III d by Max. DC 9V
Class of equipment:	Class I	□ Class II	Class III
Special installation location:	⋈ N/A	n restricted acce	ss area
Pollution degree (PD):	🗌 PD 1	🖾 PD 2	🗌 PD 3
Manufacturer's specified T _{ma} ::	45 °C 🗌 Outdoo	r: minimum	°C
IP protection class:		□ IP (G	LOS Testing Lab
Power systems:	TN TT	□ IT - V _{L-I}	5 F
Altitude during operation (m):	🛛 2000 m or less	m	
Altitude of test laboratory (m):	igties 500 m or less	🗌 m	
Mass of equipment (kg):	<u>0.040</u> kg		



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Possible test case v	erdicts:	1 and	board
- test case does not	apply to the test object:	N/A	
- test object does m	eet the requirement:	P (Pass)	
- test object does no	ot meet the requirement:	F (Fail)	
Testing:			
Date of receipt of te	st item:	2023-05-09	
Date (s) of performa	nce of tests:	From 2023-05-09 to 2023-05-	15
	112		A STATE W
General remarks:	Lab	a William Lan	a to Williams Lab
The applicant and m in this report are all authenticity.	nanufacturer information, pr provided by the applicant, a	is used as the decimal separa oduct name, model, trademari and this laboratory is not respo	k and other information
Manufacturer's Dec	laration per sub-clause 4.2.	5 of IECEE 02:	
includes more than o	taining a CB Test Certificate ne factory location and a Manufacturer stating that the for ovaluation is (are)	☐ Yes ⊠ Not applicable	
representative of the	products from each factory	A ST LCS TOSUNGLAD	ANT LOST
Name and address	of factory (ies)	Same as the Manufacturer	1 Section 2
When differences ex	kist; they shall be identified	in the General product inform	ation section.
General product inf	ormation and other remark	s:	
4 The set of set			and a discussion in the sector

1. The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of 45°C.





OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS					
Clause	Possible Hazard				
5	Electrically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES1: All circuits (9V Max.)	Ordinary	N/A	N/A	N/A	
6	Electrically-caused fire				
Class and Energy Source	Material part		Safeguards		
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S	
PS2: <100 Watt circuit (Internal circuit)	PCB	Equipment safeguards (no ignition)	V-0	N/A	
PS2: <100 Watt circuit (Internal circuit)	Combustible materials within equipment	Equipment safeguards (no ignition)	V-1 or better	N/A	
7	Injury caused by hazardous substances				
Class and Energy Source	Body Part (e.g., Skilled)	Safeguards			
(e.g. Ozone)		В	S	R	
N/A	N/A	N/A	N/A	N/A	
8	Mechanically-caused injury			4	
Class and Energy Source	Body Part		Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	
MS1: Edges and corners	Ordinary	N/A	N/A	N/A	
MS1: Less than 7kg	Mass of the unit	N/A	N/A	N/A	
9	Thermal burn				
Class and Energy Source	Body Part		Safeguards		
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: Enclosure	Ordinary	N/A	N/A	N/A	
10	Radiation				
Class and Energy Source	Body Part Safeguards				
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R	
Indicator	RS1	N/A	N/A	N/A	







ENERGY SOURCE DIAGRAM

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

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

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





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Clause

Requirement + Test

Result - Remark

Verdict

4	GENERAL REQUIREMENTS			
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Р	
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	P	
4.1.3	Equipment design and construction	Evaluation of safeguards regarding limiting the outputs to fulfill ES1 and protection in regard to risk of spread of fire, mechanical and thermal burn injury considered.	Ρ	
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A	
4.1.5	Constructions and components not specifically covered		N/A	
4.1.8	Liquids and liquid filled components (LFC)	- al Maria Maria	N/A	
4.1.15	Markings and instructions	(See Annex F)	Р	
4.4.3	Safeguard robustness	1.5	N/A	
4.4.3.1	General		N/A	
4.4.3.2	Steady force tests	(See Annex T3)	N/A	
4.4.3.3	Drop tests	(See Annex T.7)	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		N/A	
I. Pro	Glass impact test (1J)	L I MAR	N/A	
1000	Push/pull test (10 N)	Les Les	N/A	
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	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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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	(See Clause B.2, B.3)	N/A
	No harm by explosion during single fault conditions	(See Clause B.4)	N/A
4.6	Fixing of conductors		N/A
	Fix conductors not to defeat a safeguard		N/A
	Compliance is checked by test:		N/A
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard :	- Tes ros.	N/A
4.7.3	Torque (Nm):		N/A
4.8	Equipment containing coin/button cell batteries	1	N/A
4.8.1	General	Equipment for locations where it is unlikely that children will be present.	N/A
4.8.2	Instructional safeguard:		N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test	and the Co	N/A
4.8.4.2	Stress relief test	TE THE LOD LOD	N/A
4.8.4.3	Battery replacement test	LCSTO	N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
	30N force test with test probe		N/A
	20N force test with test hook		N/A
4.9	Likelihood of fire or shock due to entry of condu	ctive object	N/A
4.10	Component requirements	and the second sec	N/A
4.10.1	Disconnect Device	INSE DE TOST	N/A
4.10.2	Switches and relays	Pier re	N/A

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



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Clause	Requirement + Test	Result - Remark	Verdi
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	La state	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)	14-36 19	N/A
5.3.2.2 b)	Air gap – distance (mm)	The Testing Law	N/A
5.3.2.3	Compliance		N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	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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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		N/A	
	Clearances in circuits connected to AC Mains, Alternative method	LCS Test	N/A	
5.4.2.2	Procedure 1 for determining clearance		N/A	
	Temporary overvoltage:			
5.4.2.3	Procedure 2 for determining clearance		N/A	
5.4.2.3.2.2	a.c. mains transient voltage:		—	
5.4.2.3.2.3	d.c. mains transient voltage		—	
5.4.2.3.2.4	External circuit transient voltage:			
5.4.2.3.2.5	Transient voltage determined by measurement:	and PA	—	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	TE TH ME THE LAD	N/A	191 191
5.4.2.5	Multiplication factors for clearances and test voltages	12	N/A	
5.4.2.6	Clearance measurement:		N/A	
5.4.3	Creepage distances		N/A	
5.4.3.1	General		N/A	1
5.4.3.3	Material group	Illa&IIIb		
5.4.3.4	Creepage distances measurement		N/A	1
5.4.4	Solid insulation		N/A	
5.4.4.1	General requirements	一次的情况	N/A	1
5.4.4.2	Minimum distance through insulation	155 LOS TRON	N/A	
5.4.4.3	Insulating compound forming solid insulation	Line .	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	1



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Clause	Requirement + Test	Result - Remark	Verdic
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)		N/A
101	Alternative by electric strength test, tested voltage (V), K_{R}	LCS Test	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
5.4.5.3	Insulation resistance (MΩ):		N/A
	Electric strength test:		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	No such insulation of internal wire as part of supplementary safeguard.	N/A
5.4.7	Tests for semiconductor components and for cemented joints	12 Milling 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	. 4	N/A
5.4.10.2	Test methods	I I I I I I I I I I I I I I I I I I I	N/A
5.4.10.2.1	General	102.102	N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test:		N/A
5.4.10.3	Verification for insulation breakdown for impulse test		N/A
5.4.11	Separation between external circuits and earth	No such connections for external circuit applied within the EUT	N/A





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Clause	Requirement + Test	Result - Remark	Verdict
5.4.11.1	Exceptions to separation between external circuits and earth	No such connections to external circuit as above.	N/A
5.4.11.2	Requirements		N/A
	SPDs bridge separation between external circuit and earth		N/A
	Rated operating voltage U _{op} (V):		
	Nominal voltage U _{peak} (V):		
	Max increase due to variation ΔU_{sp} :		
بطر	Max increase due to ageing ΔU_{sa} :	- 17 Mar	
5.4.11.3	Test method and compliance:	LOS TEST	N/A
5.4.12	Insulating liquid	hanne and a second s	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	いるのなり	N/A
5.5.2.1	General requirement	TE MARKEN Lab	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	18	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	Tilles	N/A
-1931 -	RCD rated residual operating current (mA):	153 res	
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





Clause	Requirement + Test	Result - Remark	Verdict
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	Protective earthing conductor size (mm ²):		
	Protective earthing conductor serving as a reinforced safeguard		N/A
	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors		N/A
5.6.4.1	Protective bonding conductors		N/A
	Protective bonding conductor size (mm ²):		
5.6.4.2	Protective current rating (A):	- 31 (C. 1	N/A
5.6.5	Terminals for protective conductors	I ST LOS 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:	and the second second	N/A
5.6.7	Reliable connection of a protective earthing conductor	LCS Testing L	N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm ²):		N/A
	Class II with functional earthing marking		N/A
	Appliance inlet cl & cr (mm):		N/A
5.7	Prospective touch voltage, touch current and pro	otective conductor current	N/A
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections	E Les Test	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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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
	b) Equipment connected to unearthed external circuits, current (mA)	+ (1) (C.3)	N/A
5.8	Backfeed safeguard in battery backed up supplie	es los los los los los los los los los lo	N/A
	Mains terminal ES:	14 million (14 mil	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:	1. 14 73 12 13	N/A
6.2.3.2	Resistive PIS:	TESTING Land	P
6.3	Safeguards against fire under normal operating a conditions	nd 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	(See appended table B.3)	Р
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault conditions		Р
6.4.1	Safeguard method	Method of "control of fire spread" is used.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	1. 其所推測	P
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	- Mar ross	Р
6.4.3.1	Supplementary safeguards		Р
6.4.3.2	Single Fault Conditions:		Р
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		Р
6.4.5	Control of fire spread in PS2 circuits		Р



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Clause	Requirement + Test	Result - Remark	Verdict
6.4.5.2	Supplementary safeguards	Compliance detailed as follows:	Р
		 <u>Printed board</u>: rated min. V-0 <u>Battery cell</u>: complying with IEC/EN 62133. <u>All other components</u>: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g). 	融份 malab
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	1220au	N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	No specific barrier provided.	N/A
6.4.8	Fire enclosures and fire barriers	See below	Р
6.4.8.2	Fire enclosure and fire barrier material properties	The V-0 material is used for the fire enclosure	N/A
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure	The V-0 material is used for the fire enclosure	P
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	LCS Testing to	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings		N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties		N/A
	Openings dimensions (mm):	No fire enclosure required.	N/A
6.4.8.3.4	Bottom openings and properties		N/A
	Openings dimensions (mm):	No fire enclosure required.	N/A
	Flammability tests for the bottom of a fire enclosure		N/A
5.41	Instructional Safeguard		N/A
6.4.8.3.5	Side openings and properties	151 153 1655	N/A
1 Star	Openings dimensions (mm):	No fire enclosure required.	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)		N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 fire enclosure material.	N/A
6.4.9	Flammability of insulating liquid:		N/A
6.5	Internal and external wiring		N/A
6.5.1	General requirements		N/A



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

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	N/A
7.2	Reduction of exposure to hazardous substances	
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	N/A
10	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 corners		Р
8.4.1	Safeguards	LCS Testing	N/A
	Instructional Safeguard:	13	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:	11.11.11.11.11	N/A
8.5.4	Special categories of equipment containing moving parts	The restrict	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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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		N/A
1531	- Cable assembly	I ST WITH	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	- Mar va	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	. 15	N/A
一切、他们的	Explosion test	and the state of the	N/A
8.5.5.3	Glass particles dimensions (mm)	LCS TOSU	N/A
8.6	Stability of equipment	har and a second se	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)		
VISE	Tilt test	NST Cos Tast	N/A
8.6.4	Glass slide test	Lana .	N/A
8.6.5	Horizontal force test		N/A
8.7	Equipment mounted to wall, ceiling or other structure		N/A
8.7.1	Mount means type		N/A
8.7.2	Test methods		N/A
	Test 1, additional downwards force (N)		N/A





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- AND	IEC 62368-1	and the second	
Clause	Requirement + Test	Result - Remark	Verdic
	Test 2, number of attachment points and test force (N)		N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm)		N/A
8.8	Handles strength		N/A
8.8.1	General		N/A
8.8.2	Handle strength test		N/A
	Number of handles		_
ينتلى	Force applied (N):	1. 19 10 11	No. Lan
8.9	Wheels or casters attachment requirements	I GT LOS TEST	N/A
8.9.2	Pull test	harden	N/A
8.10	Carts, stands and similar carriers		N/A
8.10.1	General		N/A
8.10.2	Marking and instructions:		N/A
8.10.3	Cart, stand or carrier loading test		N/A
	Loading force applied (N)		N/A
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability	1.5-71 B2 B	N/A
C Testing L	Force applied (N):	TE THE LAD	J. T. MAR
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipment	(SRME)	N/A
8.11.1	General		N/A
8.11.2	Requirements for slide rails		N/A
	Instructional Safeguard		N/A
8.11.3	Mechanical strength test		N/A
8.11.3.1	Downward force test, force (N) applied		N/A
8.11.3.2	Lateral push force test		N/A
8.11.3.3	Integrity of slide rail end stops	一世所能常	N/A
8.11.4	Compliance	1 Star Les Les	N/A
8.12	Telescoping or rod antennas	<i>b</i>	N/A
	Button/ball diameter (mm):		

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



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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		Р
	Lasers:		
	Lamps and lamp systems:	Pit	
NA WEIGHT	Image projectors:	TE TRIBETO BALAD	
LCS T BOT	X-Ray:	LCSIC	
	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 LED types)	and lamp systems (including	N/A
10.4.1	General requirements	RS1: Exempt Group: Indicator	Р
	Instructional safeguard provided for accessible radiation level needs to exceed	- 40 M	N/A
VEL-I	Risk group marking and location:	ISSN TAST	N/A
- Teach	Information for safe operation and installation	Tea tra	N/A
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure:		N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation	·	N/A
10.5.1	Requirements		N/A
	Instructional safeguard for skilled persons		



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Clause	Requirement + Test	Result - Remark	Verdict
10.5.3	Maximum radiation (pA/kg):		
10.6	Safeguards against acoustic energy sources	1	N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output <i>L</i> _{Aeq,T} , dB(A):		N/A
	Unweighted RMS output voltage (mV):		N/A
	Digital output signal (dBFS):		N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements	1531 TO 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
10.6.3.2	Dose-based warning and automatic decrease	True .	N/A
10.6.3.3	Exposure-based warning and requirements		N/A
	30 s integrated exposure level (MEL30):		N/A
	Warning for MEL \geq 100 dB(A)		N/A
10.6.4	Measurement methods		N/A
10.6.5	Protection of persons		N/A
	Instructional safeguards		N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	1. 网络潜艇行	N/A
10.6.6.1	Corded listening devices with analogue input	LCS Testing L	N/A
	Listening device input voltage (mV):	13	N/A
10.6.6.2	Corded listening devices with digital input		N/A
	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):		N/A
10.6.6.3	Cordless listening devices		N/A
	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):		N/A

В	NORMAL OPERATING CONDITION TESTS, ABN CONDITION TESTS AND SINGLE FAULT CONDI		Р
B.1	General	- 11 M	R. R.
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)	Ρ
	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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Clause	Requirement + Test	Result - Remark	Verdict
B.3.1	General	70- 70-	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		N/A
B.3.6	Reverse battery polarity		N/A
B.3.7	Audio amplifier abnormal operating conditions	to Make Market	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	- Los to	N/A
B.4	Simulated single fault conditions		Р
B.4.1	General		Р
B.4.2	Temperature controlling device		N/A
B.4.3	Blocked motor test		N/A
B.4.4	Functional insulation	See below.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards used.	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4 for faults on electronic components)	Ρ
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3.	P
B.4.9	Battery charging and discharging under single fault conditions	(See appended table B.4)	Ρ
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
C.2.1	Test apparatus:	- <u> </u>	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	1	N/A
D.1	Impulse test generators		N/A
0.2	Antenna interface test generator		N/A
). 3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINI	NG AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	signals	N/A
	Maximum non-clipped output power (W):		
	Rated load impedance (Ω):		
	Open-circuit output voltage (V):		
	Instructional safeguard:		
E.2	Audio amplifier normal operating conditions	1	N/A
	Audio signal source type:	See tabel 4.2.1	
Section.	Audio output power (W):	See tabel 4.2.1	
Will Managhing V	Audio output voltage (V):	See tabel 4.2.1	
C0 . 8.	Rated load impedance (Ω)	See tabel 4.2.1	
	Requirements for temperature measurement		N/A
Ξ.3	Audio amplifier abnormal operating conditions	See tabel B.3&B.4	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND I SAFEGUARDS	NSTRUCTIONAL	Р
F.1	General		Р
	Language:	English version provided and checked.	
F.2	Letter symbols and graphical symbols		P
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	N/A
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The required marking is located on the product is easily visible.	Р



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Clause	Requirement + Test	Result - Remark	Verdic
LOW-1-1		Result - Remain	veruic
F.3.2	Equipment identification markings	See copy of marking plate.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate.	
F.3.2.2	Model identification:	See page 2 for details.	_
F.3.3	Equipment rating markings	See the following details.	Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains		Р
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	
F.3.3.4	Rated voltage:	See copy of marking plate.	
F.3.3.5	Rated frequency	Kat co Test	319 -
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
LCG	Instructional safeguards for neutral fuse	Lest	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		N/A
F.3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking	THE	N/A
F.3.6.3	Functional earthing terminal marking	102	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.	P
- EFE	S Testing LCS Tosting L	After each test, the marking remained legible.	n9
F.4	Instructions		Р
	a).Information prior to installation and initial use		Р
	b).Equipment for use in locations where children not likely to be present		N/A
	c). Instructions for installation and interconnection		Р
	d). Equipment intended for use only in restricted access area		N/A
in the	e). Equipment intended to be fastened in place		N/A
A SALAS MARK	f). Instructions for audio equipment terminals	to White We Lab	N/A
LCSTESTI	g). Protective earthing used as a safeguard	LCSTESU	N/A
	h) Protective conductor current exceeding ES2 limits	line .	N/A
	i). Graphic symbols used on equipment		Р
	 j). Permanently connected equipment not provided with all-pole mains switch 		N/A
	 k) Replaceable components or modules providing safeguard function 		N/A
	I). Equipment containing insulating liquid		N/A
	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards	「日本語」	N/A
G	COMPONENTS		P
G.1	Switches		N/A
G.1.1	General	No relay used.	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance		N/A
G.2	Relays		N/A
G.2.1	Requirements		N/A
G.2.2	Overload test		N/A



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Clause	IEC 62368-1	Dooult Domoriu	\/ ~ !!
Clause	Requirement + Test	Result - Remark	Verdict
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-offs provided within the equipment.	N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
an Ste	Thermal cut-outs tested as part of the equipment as indicated in c)	大田 花川	N/A
G.3.1.2	Test method and compliance	Les ics Tast	N/A
G.3.2	Thermal links	P	N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	No PTC thermistor used.	N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	LCS Testing	N/A
G.3.5.2	Single faults conditions		N/A
G.4	Connectors		N/A
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound components		N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2	Protection against mechanical stress	Mal Tast	N/A
G.5.2	Endurance test	Not applied for.	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Test time (days per cycle)		
	Test temperature (°C):		
G.5.2.3	Wound components supplied from the mains		N/A
G.5.2.4	No insulation breakdown		N/A



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A SALVANA	IEC 62368-1	Service and the service of the servi	CALL OF
Clause	Requirement + Test	Result - Remark	Verdict
G.5.3	Transformers	(j.,	N/A
G.5.3.1	Compliance method:		N/A
	Position:		N/A
	Method of protection:		N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings		
G.5.3.3	Transformer overload tests		N/A
G.5.3.3.1	Test conditions	and the second	N/A
G.5.3.3.2	Winding temperatures	IN THE TEST	N/A
G.5.3.3.3	Winding temperatures - alternative test method	The pro-	N/A
G.5.3.4	Transformers using FIW	No such FIW	N/A
G.5.3.4.1	General		N/A
	FIW wire nominal diameter:		
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation		N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	N/A
G.5.3.4.5	Thermal cycling test and compliance	TE MARK TOSLAD	N/A
G.5.3.4.6	Partial discharge test	i ros	N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements		N/A
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test		N/A
	Test duration (days):		
G.5.4.5	Running overload test for DC motors	~ 风格漫	N/A
G.5.4.5.2	Tested in the unit	A CLEAR TANK	N/A
G.5.4.5.3	Alternative method	Protect	N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature:		N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.9	Series motors	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	N/A
	Operating voltage:		_
G.6	Wire Insulation	1	N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
	Туре:		
G.7.2	Cross sectional area (mm ² or AWG):	I St. CS Test	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	- Libra -	N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry	- mit all an	N/A
G.7.5	Non-detachable cord bend protection	LCS Testing	N/A
G.7.5.1	Requirements	12	N/A
G.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, <i>D</i> (mm)		
	Radius of curvature after test (mm):		
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements	111111111	N/A
G.7.6.2.2	Test with 8 mm strand	15 Los Test	N/A
G.8	Varistors	1. Second	N/A
G.8.1	General requirements		N/A
G.8.2	Safeguards against fire		N/A
G.8.2.1	General		N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test		N/A
G.9	Integrated circuit (IC) current limiters		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.9.1	Requirements	50°	N/A
	IC limiter output current (max. 5A)		
	Manufacturers' defined drift		
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
G.10	Resistors		N/A
G.10.1	General		N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test	IST OSTAST	N/A
G.10.4	Voltage surge test	- Trans -	N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers	- 76 B	N/A
L语情的。 LCG Testing Li	Optocouplers comply with IEC 60747-5-5 with specifics	注闭的780Lab LCS Testing Lab	N/A
	Type test voltage V _{ini,a} :	12	
	Routine test voltage, V _{ini, b} :		
G.13	Printed boards		Р
G.13.1	General requirements	See the following details.	Р
G.13.2	Uncoated printed boards	The insulation between conductors on the outer surfaces of an uncoated printed board complied with the minimum clearance and creepage requirements	P
G.13.3	Coated printed boards	No coated printed board or multilayer board applied for within the equipment.	N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs)		—
G.13.6	Tests on coated printed boards		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.13.6.1	Sample preparation and preliminary inspection	1.17	N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements:	No coating on component terminals considered to affect creepage or clearances.	N/A
G.15	Pressurized liquid filled components		N/A
G.15.1	Requirements	No such device provided within the equipment.	N/A
G.15.2	Test methods and compliance	17-1-11-11-11-11-11-11-11-11-11-11-11-11	N/A
G.15.2.1	Hydrostatic pressure test	- The room	N/A
G.15.2.2	Creep resistance test		N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test		N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)		N/A
G.16.1	Condition for fault tested is not required	the West and Lab	N/A
CS TOSH	ICX with associated circuitry tested in equipment	LCSTESU	N/A
	ICX tested separately	Ver	N/A
G.16.2	Tests		N/A
	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test :		_
	Mains voltage that impulses to be superimposed on		—
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test		—
G.16.3	Capacitor discharge test:	. 19	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1 🔛 🖞	General	Les Les	N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz):		—
H.3.1.2	Voltage (V)		
H.3.1.3	Cadence; time (s) and voltage (V)		





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Clause	Requirement + Test	Result - Remark	Verdict
H.3.1.4	Single fault current (mA):	- UP	
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V):		N/A
J	INSULATED WINDING WIRES FOR USE WITHOU INSULATION	T INTERLEAVED	N/A
J.1	General		N/A
181	General Winding wire insulation	LOS TEST	_
Frence	Solid round winding wire, diameter (mm):	lister	N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm ²)		N/A
J.2/J.3	Tests and Manufacturing		—
К	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
	Instructional safeguard:		N/A
K.2	Components of safety interlock safeguard mech	anism	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
K.5.1	Under single fault condition		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Test method and compliance:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
	In circuit connected to mains, separation distance for contact gaps (mm):		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):		N/A
	Electric strength test before and after the test of K.7.2		N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
L	DISCONNECT DEVICES	s – 16	N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single-phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
	Instructional safeguard:		N/A
М	EQUIPMENT CONTAINING BATTERIES AND THE	IR PROTECTION CIRCUITS	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:		N/A
M.3	Protection circuits for batteries provided within the equipment		N/A
M.3.1	Requirements		N/A
M.3.2	Test method		N/A
	Overcharging of a rechargeable battery	(See table B.4 and table Annex M)	N/A
	Excessive discharging	(See table B.4 and table Annex M)	N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance	(See appended table M.3)	N/A
М.4	Additional safeguards for equipment containing battery	a portable secondary lithium	N/A
M.4.1	General		N/A
M.4.2	Charging safeguards	Les Les	N/A
M.4.2.1	Requirements		N/A
M.4.2.2	Compliance	(See appended table M.4.2)	N/A
M.4.3	Fire enclosure:		N/A
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



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	IEC 62368-1		- and
Clause	Requirement + Test	Result - Remark	Verdic
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	Internal fault testing had been conducted on the cell as part of compliance with IEC62133- 2: 2017	N/A
M.6.2	Compliance		Р
M.7	Risk of explosion from lead acid and NiCd batte	eries	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	Calculated hydrogen generation rate:		N/A
M.7.2	Test method and compliance		N/A
一時間發行	Minimum air flow rate, Q (m ³ /h):	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	N/A
M.7.3	Ventilation tests	T ATTRACTOR	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 externative with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General		N/A
M.8.2	Test method		N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):		
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance d (mm):		
M.9	Preventing electrolyte spillage	•	N/A



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Clause

M.9.1

M.9.2

M.10

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P.1

P.2

P.2.1

P.2.2

P.2.3

Verdict

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

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IEC 62368-1	
Requirement + Test	Result - Remark
Protection from electrolyte spillage	0
Tray for preventing electrolyte spillage	
Instructions to prevent reasonably foreseeable misuse	Mentioned in user manual.
Instructional safeguard:	
ELECTROCHEMICAL POTENTIALS	
Material(s) used:	
MEASUREMENT OF CREEPAGE DISTANCES AN	D CLEARANCES
Value of <i>X</i> (mm):	
SAFEGUARDS AGAINST CONDUCTIVE OBJECT	5
General	No PS3 circuits
Safeguards against entry or consequences of en	try of a foreign object
General	
Safeguards against entry of a foreign object	
Location and Dimensions (mm)	
Safeguards against the consequences of entry of a foreign object	
Safeguard requirements	
The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	
Transportable equipment with metalized plastic parts	

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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	N/A
P.4.1	General	N/A
P.4.2	Tests	N/A
	Conditioning, T _C (°C):	_
	Duration (weeks)	
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	N/A
Q.1	Limited power sources	N/A
Q.1.1	Requirements	N/A
	a) Inherently limited output	N/A
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<u></u>	IEC 6236		-
Clause	Requirement + Test	Result - Remark	Verdict
	b) Impedance limited output		N/A
	c) Regulating network limited output		N/A
	d) Overcurrent protective device limited outp	but	N/A
	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance	:	N/A
	Current rating of overcurrent protective devi		N/A
Q.2	Test for external circuits – paired conduc cable	tor	N/A
	Maximum output current (A)	:	N/A
	Current limiting method	:	
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General		N/A
R.2	Test setup		N/A
	Overcurrent protective device for test	:	
R.3	Test method		N/A
	Cord/cable used for test	:	
R.4	Compliance		N/A
S	TESTS FOR RESISTANCE TO HEAT AND	FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		ent N/A
	Samples, material	:	
	Wall thickness (mm)	:	
	Conditioning (°C)	:	
	Test flame according to IEC 60695-11-5 with conditions as set out	1	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 f	re barrier integrity	N/A
	Samples, material	:	
	Wall thickness (mm)	:	
	Conditioning (°C)		
S.3	Flammability test for the bottom of a fire enclosure		N/A
S.3.1	Mounting of samples		N/A
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Clause	Requirement + Test	Result - Remark	Verdict
	Mounting of samples:		_
	Wall thickness (mm):		
S.4	Flammability classification of materials	See Table 4.1.2 only.	Р
S.5	Flammability test for fire enclosure materials of power exceeding 4 000 W	equipment with a steady state	N/A
	Samples, material:		
	Wall thickness (mm):		
	Conditioning (°C):		_
т	MECHANICAL STRENGTH TESTS		Р
T.1	General		N/A
T.2	Steady force test, 10 N:		N/A
Т.3	Steady force test, 30 N:		N/A
Т.4	Steady force test, 100 N:	(See appended table T.4)	N/A
Т.5	Steady force test, 250 N		N/A
Т.6	Enclosure impact test		N/A
	Fall test		N/A
	Swing test		N/A
T.7	Drop test:	(See appended table T.7)	N/A
T.8	Stress relief test:	(See appended table T.8)	N/A
Т.9	Glass Impact Test:		N/A
T.10	Glass fragmentation test		N/A
	Number of particles counted:		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TU AGAINST THE EFFECTS OF IMPLOSION	BES (CRT) AND PROTECTION	N/A
U.1	General		N/A
	Instructional safeguard:		N/A
U.2	Test method and compliance for non-intrinsically	protected CRTs	N/A
U.3	Protective screen		N/A
V	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment		N/A
V.1.1	General		N/A
V.1.2	Surfaces and openings tested with jointed test probes		N/A
V.1.3	Openings tested with straight unjointed test probes		N/A
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Clause	Requirement + Test	Result - Remark	Verdict	£105
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A]
V.1.5	Slot openings tested with wedge probe		N/A	l
V.1.6	Terminals tested with rigid test wire		N/A	
V.2	Accessible part criterion		N/A	1
x	ALTERNATIVE METHOD FOR DETERMINING CLI IN CIRCUITS CONNECTED TO AN AC MAINS NO (300 V RMS)		N/A	
	Clearance		N/A	
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOO	DR ENCLOSURES	N/A	
Y.1	General		N/A	1
Y.2	Resistance to UV radiation		N/A	1
Y.3	Resistance to corrosion		N/A	1
Y.3	Resistance to corrosion		N/A	1
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	LCSTESU	N/A	1923 m
Y.4.1	General		N/A	
Y.4.2	Gasket tests		N/A	
Y.4.3	Tensile strength and elongation tests		N/A	1
	Alternative test methods:		N/A	1
Y.4.4	Compression test		N/A	1
Y.4.5	Oil resistance		N/A	
Y.4.6	Securing means		N/A	
Y.5	Protection of equipment within an outdoor enclo	sure	N/A	1
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	1
Y.5.5	Protection from excessive dust		N/A	1
Y.5.5.1	General		N/A	1
Y.5.5.2	IP5X equipment		N/A	1

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一、南川市	IEC 62368-1	- 1 合同語(1)	
Clause	Requirement + Test	Result - Remark	Verdict
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A
Y.6.2	Impact test:		N/A















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EPIN and Le		Attacr	iment NO. I	- 47 M	The shad have		22.321.1-	
5.2	2 TABLE: Classification of electrical energy sources							
Supply Voltage	Location (e.g. circuit	Test conditions		F	Parameters		ES Class	
Voltage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	01033	
9Vdc Max.	Internal circuits	Normal	9Vdc Max				ES1	
Supplement	ary information:			•			<u>.</u>	
· · - ·				–				

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 volta	Par res	N/A			
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comm	ents
Supplemer	tary information:					

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics							
Method			:	ISO 306 / B50				
Object/ Part No./Material		Manufacturer/trademark		Thickness (mm)	T softeni	ng (°C)		
100	-162	3			-12	Ton Ton		
Supplemen	tary information:				•			

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics							
Allowed imp	pression diameter	er (mm)	:	≤ 2 m	m			
Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)		ression eter (mm)	
	100000000000		。到股份				服份	
Supplement	ary information:	Les Les	losting Las		151	LOS TOST	ing Law	

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

TRF No. IEC62368 1E





Supplementary information:

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1) Only for frequency above 30 kHz

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

5.4.4.2	TABLE: Minimum distance through insulation								
Distance through insulation (DTI) at/of		Peak voltage (V)	k voltage (V) Insulation Required DTI Mea (mm)			sured DTI (mm)			
Supplement	ary information:		111			- 15			

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz					182 108	N/A	
Insulation	material	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)	
Suppleme	ntary information:				•			

5.4.9	TABLE: Electric strength tests			N/A
Test voltage	applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
E Blacking L	In the resting Law		162.911.8 L810	INTER ANTON
Supplemen	tary information:	-15-11-1		- Berrow

5.5.2.2	TABLE:	ABLE: Stored discharge on capacitors							
Location		Supply voltage (V)	Operating and fault condition ¹⁾	Switch position	Measured voltage (Vpk)	E	S Class		
Supplemen	tary inform	nation:							

Supplementary information:

X-capacitors installed for testing:

bleeding resistor rating:

ICX:

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

5.6.6	TABLE: Resistance of	protective condu	ctors and termination	ons		N/A
Location		Test current (A)	Duration (min)	Voltage drop (V)	Re	sistance (Ω)
Supplementa	ry information:					
AND AND		a statistica		and the		

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1. Mar		-+1 TO VI-			1		A 199 199 1
5.7.4	TABL	E: Unearthed acces	ssible parts				N/A
Location		Operating and	Supply	I	Parameters	<u> </u>	ES
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current Freq. (A _{rms} or A _{pk}) (Hz)		class
Supplemer	ntary info	rmation:					
ALL							

Abbreviation: SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed access	ible conductive part			N/A
Supply vo	oltage (V)	to the West and Lab		- 古田道部	
Phase(s)	1C3 Teorem	[] Single Phase; [] Three F	Phase: [] Delta]Wye	
Power Dis	stribution System:		🗌 IT		
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	ent
Suppleme	entary Information:				

Supplementary Information:

5.8	TABLE:	Backfeed sa	afeguard in battery I	backed up s	supplies		N/A
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
CS TOSTICS LO		IT AL	Storesting Law	1501 2	MART ESTING Law	1	The Martin
Supplementary information:							
Abbreviation	n: SC= sh	ort circuit, O	C= open circuit				

6.2.2	TABLE: Power source c	ircuit classifica	tions			Р			
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class			
Internal circu	it Normal condition			<100W	5s	PS2			
Supplementa	Supplementary information:								
Abbreviation	Abbreviation: SC= short circuit; OC= open circuit								

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

6.2.3.1	TABLE: Determination of Arcing PIS							
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS Yes / No			

Supplementary information:

6.2.3.2 T	TABLE: Dete	ermination of resistive PIS				N/A
Location		Operating and fault cor	ndition	Dissipate power (W)	Arc	cing PIS?
TRE No. JEC62	2368 1E	The Tresting	10-1	THE THEFT	1.50	A. St. 188

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Yes / No

ING

Attachment No.1

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

8.5.5	TABLE: High pre	essure lamp				N/A
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	be	ticle found yond 1 m ′es / No
	1、11111111111111					(影音)
Supplement	ary information:	正闭	The section of Last	123	1.200 v 1.200 v	ing Lab

9.6		· Tempera	turo mossi	uromonts	for wireles	s nower t	ransmitter	e	Р
Supply voltage		•					ransmitter	3 	
Max. transmi	t power	of transmi	tter (W)	:					
			eiver and contact		eiver and contact		ver and at of 2 mm		iver and at e of 5 mm
Foreign ob	jects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Steel dis	SC	27.9	25.2	28.1	25.1	28.1	25.0	27.9	25.0
Aluminium	ring	28.1	25.0	27.9	25.2	28.2	25.1	28.1	251
Aluminium	n foil	28.0	25.1	27.9	25.1	28.0	25.0	28.0	25.2
Supplementa	ry infor	mation:			line and		1	0	*

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature	measurements		Р
Supply volt	age (V)	9Vd.c.(load: Total wireless output: 9VDC,1.1A)	9Vd.c.(load: Total wireless output: 9VDC,1.1A)	—
Ambient T _{rr}	_{nin} (°C):			
Ambient T _{rr}	_{nax} (°C):	and the		
Tma (°C)		TOTAL AND THE ADDRESS OF THE ADDRESS		
Maximum measured ter	nperature T of part/at:	Т ((°C)	Allowe d T _{max} (°C)
PCB near U1		42.2	62.2	130
PCB near U3		40.5	60.5	130
PCB near U4		39.6	59.6	130
Wireless charging coil		56.4	76.4	Ref.
Plastic enclosure inside	near coil	50.8	70.8	85
Plastic enclosure outsid	e near coil	41.5		77*
Ambient	THE REAL PROPERTY OF	25.0	45.0	

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Supplementary	y information:
---------------	----------------

Supplementary information.	,0 m		-1623	For		- 18	a Luc
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulat ion class

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)

Note 3: * only applicapble to ambient 25 degree.

				TOSTIN'S						
5.4.1.4, 9.3, B.2.6	B.1.5,	TABLE:	Temperat	ure meas	urements			- De	TCs.	Ρ
	Supply volt	age (V)			5Vd.c.(load: Total wireless output: 9VDC,1.1A)			5Vd.c.(load wireless o 9VDC,1	utput:	
	Ambient T _n	_{nin} (°C)		:						
	Ambient T _n	nax (°C)		:						
	Tma (°C):									
Maximum m	easured ter	at:		Т ((°C)			Allowe d T _{max} (°C)		
PCB near U	1	-filsi i	CP 161		41.6	100 11		61.6		130
PCB near U	3				40.0			60.0)	130
PCB near U	4				39.1			59.1		130
Wireless cha	arging coil				55.8			75.8		Ref.
Plastic enclo	sure inside	near coil			49.6			69.6	85	
Plastic enclo	sure outsid	le near co	il		41.0				77*	
Ambient					25.0		45.0			
Supplement	ary informa	tion:								
Temperature T of winding:					t ₂ (°C)	R ₂ (2)	T (°C)	Allowed T _{max} (°C)	Insulat ion class
			-				- 13			
Supplement	ary informa	tion:	•	•		•			•	
Note 1: Tma	should be	considere	d as direct	ed by app	liable requi	rement	:			
Note 2: Tma	is not inclu	ided in as	sessment	of Touch	Femperatur	es (Cla	use	9)		

Note 3: * only applicapble to ambient 25 degree.

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B.2.5	TABLE: In	put test	LCSTESSI		A SE L	Po ^{Te}	
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5Vdc	2.05	2	10.25				Working nomal(load :9VDC,1.1A Max)
9Vdc	1.25	1.67	11.25				Working nomal(load :9VDC,1.1A Max) Max)

Supplementary information:

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

B.3, B.4	TAB	LE: Abnor	mal operatin	g and fau	It condition	n tests	IST LOS TES	Ρ
Ambient terr	npera	ture T _{amb} (°	C)			: See belo	w	
Power sourc	ce for	EUT: Manu	lfacturer, mod	del/type, c	outputrating.	:		
Component	No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	
U1 Pin 3-11		SC	9Vdc	10mins			Input current: 0.001A Unit shut down imme recoverable. After tes damage, no hazard.	diately,
U3 Pin 1-5	þ	SC	9Vdc	10mins		a IL MARTIN	Input current: 0.001A Unit shut down imme recoverable. After tes damage, no hazard.	diately,
C17		SC	9Vdc	10mins	''		Input current: 0.001A Unit shut down imme recoverable. After tes damage, no hazard.	diately,
Q1 Pin 1-3		SC	9Vdc	10mins			Input current: 0.001A Unit shut down imme recoverable. After tes damage, no hazard.	diately,

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: Pr	otection circuits for batterie	es provided w	vithin the equipment	N/A		
Is it possible to install the battery in a reverse polarity position?: No							
			Chargi	ng			
Equipment Specification		Voltage (V)		Current (A)			
			Battery spec	cification			
Manufa	cturer/type	Non-rechargeable batteries Rechargeable batteries					
RF No. IEC	C62368 1E						



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THING LOP		1. 古田道	and)	Attachme	ent No.1	-15	图 42.1	ing Lab		古语道	
		Discharging		intentional	(Char	ging		Discharging	Reverse	
		current (A)		harging Irrent (A)	Voltage	(V)	Curr	ent (A)	current (A)	charging current (A)	
Note: The tes	Note: The tests of M.3.2 are applicable only when above appropriate data is not available.										
Specified bat	tery tempera	ture (°C)				:	0-45				
Component No.	Fault condition	Charge/ discharge mo	de	Test time	Temp. (°C)		irrent (A)	Voltag (V)	e Obse	rvation	
HALCS	Normal	Charge mod	le	7h	San				The produ as normal chemicals explosion, metal emis expulsion	No leak, molten ssion or	
	SC	Charge mod	le	7h					The produ as normal chemicals explosion, metal emis expulsion	No leak, molten ssion or	
 C系統開發的 CS Teating Lab	Normal	Discharge mo		7h			ANT OF		The produ as normal chemicals explosion, metal emis expulsion	No leak, molten ssion or	
	SC	Discharge mc	ode	7h					The produ as normal chemicals explosion, metal emis expulsion	No leak, molten ssion or	

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.

چو	A TRANSPORT	uslo Lalo		and the second second		一切他開	Sec. 1.31
M.4.2	TABLE: battery	Charging sa	feguards for	equipment c	ontaining a	a secondary lithium	N/A
Maximum s	pecified c	harging voltag	e (V)		: 4.2		
Maximum s	pecified c	harging curren	ıt (A)		:		
Highest spe	ecified cha	arging tempera	ture (°C)		:		
Lowest spe	cified cha	rging temperat	ure (°C)		:		
Battery		Operating	I	Measurement		Observation	
manufacture	er/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
- THE MART	3 30	Normal	North Lab		°C	Battery charging curre	ent
RF No. IEC	62368_1	1165	S TESTING	110	T SE TEST	19	2. c5



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		Attac	chment No.1		
OR TESTING	A ST CO	LERE,	16	LOS TRAV	decrease to A when ambient temp increase to °C.
	Normal			°C	Battery charging current decrease to A when ambient temp decrease to
					°C.
	SC			°C	Battery charging current decrease to A when ambient temp increase to °C
	SC			°C	Battery charging current decrease to A when ambient temp increase to
Mai Los Testin	2) 2)	164	LCS TREETINS		°C

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 int	TABLE: Circuits intended for interconnection with building wiring (LPS)							
Output	Condition U _{oc} (V) Time (s)		S (VA)						
Circuit	Condition	U _{oc} (V)	Time (s)	Meas.	Limit	Meas.	Limit		
	Normal condition	Charles and			8		100		
1 C.S. 1 C.	ary Information: : SC= short circuit	Shine Lan CS Testing Lan	ÿ	E LCS T	850118 Lab	-1	T. T. HIM		

T.2, T.3, T.4, T.5	TABLE	ABLE: Steady force test							
Part/Locatio	'n	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation		
Supplement	tarv info	rmation:							

T.6, T.9	TABLE: Imp	act test	L MARY RESIDENCE		N/A
Location/pa	art	Material	Thickness (mm)	Height (mm)	Observation
Supplemer	ntary information	ו:			

T.7	TABLE: Dro	p test				N/A
Location/pai	rt	Material	Thickness (mm)	Height (mm)	Observatio	n
		-				
LAND THE PARTY		and the second		18 MIL 16	97 - C C C C C C C C	

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Supplementary information:

	1 Belleville		1 Street		10	
TABLE	: Stress relief te	est				N/A
		This is a second		D		

Location/Part	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Supplementary infor	mation:				

S upplementary information:

Х	TABLE: Alternat	ive method for determini	ng minimum clearances	s distances	N/A
Clearance d between:	listanced	Peak of working voltage (V)	Required cl (mm)	Measure (mm)	
- 181	STESTINS	TST LOST		151 100 200	1212
Supplement	any information:	Linker		Para.	

Supplementary information:

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		Covestro Deutschland AG [PC Resins]	FR3010	V-0, min. 1.5 mm, 85°C	UL 94, UL 746	UL E41613
PCB	ting Lab	Suichuan Xinchengruijia Electronics Co Ltd	XCRJ-M/XCRJ-D	V-0,130°C	UL 796	UL E508951

IEC62368_1E - ATTACHMENT

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Obtili	and the second s	Attachment No.1	Dealth Daniel	The les
Clause	Requirement + Test	-122	Result - Remark	Verdict
	ATTACHN	MENT TO TEST RE	PORT	
	EUROPEAN GROUP DIFFE	IEC 62368-1 RENCES AND NA	TIONAL DIFFERENCES	
(Audio/vio	deo, information and communica			nents)
Differences ac	cording to EN IEC	C 62368-1:2020+A1	1:2020	
Attachment Fo	orm No EU_GE	D_IEC62368_1E		
Attachment O	riginator UL(Der	mko)		
Master Attach	ment 2021-0	02-04		
	021 IEC System for Conformity		ification of Electrical Equipme	ent
(IECEE), Gene	va, Switzerland. All rights rese	erved.	14- 1	
	CENELEC COMMON MODIFIC	CATIONS (EN)		
	Clause numbers in the cells tha IEC 62368-1:2020+A11:2020.		rey are clause references in EN	
	those in the paragraph below, re			
	those in the paragraph below, re Clauses, subclauses, notes, tab	efers to IEC 62368- ples, figures and an	1:2018.	
	those in the paragraph below, re	efers to IEC 62368- ples, figures and an	1:2018.	
- 現後間間	those in the paragraph below, re Clauses, subclauses, notes, tab those in IEC 62368-1:2018 are Add the following annexes: Annex ZA (normative)	efers to IEC 62368- ples, figures and and prefixed "Z".	1:2018. nexes which are additional to to international publications	STE
工资。這個語的 LC6 Testing Lab	those in the paragraph below, re Clauses, subclauses, notes, tab those in IEC 62368-1:2018 are Add the following annexes: Annex ZA (normative) No with their corresp	efers to IEC 62368- oles, figures and and prefixed "Z". ormative references	1:2018. nexes which are additional to to international publications ublications	STE
並新統調整的 LCS Testing Lab	those in the paragraph below, re Clauses, subclauses, notes, tab those in IEC 62368-1:2018 are Add the following annexes: Annex ZA (normative) No with their corresp Annex ZB (normative) Sp	efers to IEC 62368- oles, figures and ann prefixed "Z". ormative references bonding European pu	1:2018. nexes which are additional to to international publications ublications	STE
並將該將將將 LCS Testing Lab	those in the paragraph below, re Clauses, subclauses, notes, tak those in IEC 62368-1:2018 are Add the following annexes: Annex ZA (normative) No with their corresp Annex ZB (normative) Sp Annex ZC (informative) A-	efers to IEC 62368- oles, figures and and prefixed "Z". ormative references bonding European pu becial national condi- deviations	1:2018. nexes which are additional to to international publications ublications	STE STE
立為該該將務部部 LCS Testing Lab	those in the paragraph below, re Clauses, subclauses, notes, tab those in IEC 62368-1:2018 are Add the following annexes: Annex ZA (normative) No with their corresp Annex ZB (normative) Sp Annex ZC (informative) A- Annex ZD (informative) IE	efers to IEC 62368- oles, figures and and prefixed "Z". ormative references bonding European pu becial national condi- deviations	1:2018. nexes which are additional to to international publications ublications tions	
1 3.3.19	those in the paragraph below, re Clauses, subclauses, notes, tab those in IEC 62368-1:2018 are Add the following annexes: Annex ZA (normative) No with their corresp Annex ZB (normative) Sp Annex ZC (informative) A- Annex ZD (informative) IE cords	efers to IEC 62368- oles, figures and and prefixed "Z". ormative references bonding European pu becial national condi- deviations	1:2018. nexes which are additional to to international publications ublications tions	P





			1	- 15 M
Clause	Requirement + Test	Result - Rema	ark 💦 👘	Verdic
3.3.19.1	momentary exposure level, MEL			Р
	metric for estimating 1 s sound exposure level fror the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.	n		
	Note 1 to entry: MEL is measured as A-weighted levels in dB.			
	Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.			
3.3.19.3	sound exposure, <i>E</i>	5	I TE WING	^{y Lay} P
-1939 r.c	A-weighted sound pressure (p) squared and integrated over a stated period of time, T		- Test res.	
	Note 1 to entry: The SI unit is Pa^2 s. $E = \int p(t)^2 dt$			
3.3.19.4	0 sound exposure level, SEL			P
主用意调整的 LCS Testing Lat	logarithmic measure of sound exposure relative t a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans. Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB.	D Stiftensensus Les Testins Lab	15	
	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$			
	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			Р
	levels reported in dBFS are always r.m.s. Full sca 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 unuse)a B	Est think the	
	Note 1 to entry: It is invalid to use dBFS for non- r.m.s. levels. Because the definition of full scale i based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signa may reach +3,01 dBFS.			
2	Modification to Clause 10			

TRF No. IEC62368_1E



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11 23 (NY 24)	IEC 62368-1	and the second sec	
Clause	Requirement + Test	Result - Remark	Verd
	The reaction of the	1	
10.6	Safeguards against acoustic energy sources		P
	Replace 10.6 of IEC 62368-1 with the following:		
10.6.1.1	Introduction		P
	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person , that: – is designed to allow the user to listen to audio or	Los Test	靈份 1913年
	 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	ILTRA BERT	LCS
	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.		酸的 as Lab
	Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to: – professional equipment;		
	NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be		

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Attachment No.1

THE REAL POST	IEC 62368-1	- 44 TH 191	
Clause	Requirement + Test	Result - Remark	Verdic
	The read of the second		
	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 within a few years it will no longer exist. This exemption will not be extended to other technologies.	LOS TASY	設行 nS Lab
	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 		在田地方
	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.	LIN 107 Testing Leb	
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	ζų	Р
	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 hand- held and body mounted devices, attention is drawn to EN 50360 and EN 50566.		躁.份 o a Laub
10.6.2	Classification of devices without the capacity to	estimate sound dose	P
10.6.2.1	General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3.		Ρ

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	IEC 62368-1	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	2-10-10
Clause	Requirement + Test	Result - Remark	Verdic
	For classifying the acoustic output $LAeq, T$, measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.		
	For music where the average sound pressure (long term <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.		. 15
	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,	LCS TASK	ng Lab
	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 programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an		
- 現後前月8月	acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.		- 1916
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	LCS Testing	LOBIC
	RS1 is a class 1 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be \leq 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1.		
	 for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 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. 	Los tast	發行 0.8 La ¹⁰
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)		Р
	RS2 is a class 2 acoustic energy source that does not exceed the following:		

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Clause	Requirement + Test	Ge	Result - Remark	1Xe	Verdic
	 – for equipment provided as a package (player wits 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 a setting or automatic 130 detection, the LAeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for generates, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digiting the fixed "programme simulation or -10 dBFS) 	s ng al		Lift (2.3)	設 G Lab
	interface) when playing the fixed "programme simulation noise" as described in EN 50332-1. RS3 limits				
10.6.2.4	RS3 limits				N/A
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.				
10.6.3	Classification of devices (new)				
10.6.3.1	General				Р
10.6.3.2	Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below. RS1 limits (new)		注册的预测器的 LCS Testing Lab	15	L TE MAR
	RS1 is a class 1 acoustic energy source that doe 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 a setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acous output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for genera- use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digita interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	s itic			副 NB Lall
10.6.3.3	RS2 limits (new)				Р
	RS2 is a class 2 acoustic energy source that doe not exceed the following: – for equipment provided as a package (player v				
TRF No. IEC6	S2368_1E Shenzhen LCS Compliance Testing Laboratory Ltd.		and the second second		N/A
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Clause	Requirement + Test		Result - Remark	V	erdict
Clause	Requirement + rest	- NG	Result - remain		HUIGE
	its listening device), and with a proprietary connector between the player and its liste device, or where the combination of player listening device is known by other means setting or automatic detection, the weekly exposure level, as described in EN 50332 be ≤ 80 dB when playing the fixed "progra simulation noise" described in EN 50332- – for equipment provided with a standardi connector (for example, a 3,5 phone jack) allows connection to a listening device for use, the unweighted r.m.s. output level, in over one week, as described in EN50332 be ≤ 15 mV (analogue interface) or -30 dE (digital interface) when playing the fixed "programme simulation noise" described in 50332-1.	ening er and s such as y sound 2-3, shall amme -1. lized 1) that r general ntegrated 2-3, shall BFS		LOS TESTINGE	20 A
10.6.4	Requirements for maximum sound exp	posure	<u> </u>		Ρ
10.6.4.1	Measurement methods All volume controls shall be turned to max during tests. Measurements shall be made in accordar	nce with		1	P
10.6.4.2	EN 50332-1 or EN 50332-2 as applicable Protection of persons	<u>, </u>		<u> </u>	
	Except as given below, protection require parts accessible to ordinary persons, ir persons and skilled persons are given i NOTE 1 Volume control is not considered safeguard. Between RS2 and an ordinary person, th safeguard may be replaced by an instru- safeguard in accordance with Clause F.5 that the instructional safeguard shall be on the equipment, or on the packaging, or instruction manual. Alternatively, the instructional safeguard given through the equipment display durin The elements of the instructional safegu	nstructed in 4.3. d a the basic ictional 5, except e placed or in the rd may be ng use.	ICS Testing Lab	Link to Make to	90 32 -
TRF No. IEC	 – element 1a: the symbol , IEC 604 (2011-01) – element 2: "High sound pressure" or eq wording – element 3: "Hearing damage risk" or eq wording – element 4: "Do not listen at high volume 62368_1E Shenzhen LCS Compliance Testing Laboratory Ltd. Add: Room 101, 201, Building A and Room 301, Bui Bao'an District, Shenzhen, Guangdong, China Tel: +(86) 0755-8259 1330 Fax: +(86) 0755-8259 1330 	quivalent quivalent <u>e levels for</u> iilding C, Juji li	Industrial Park, Yabianxueziwei,	Mar L	



The state of the second	IEC 62368-1	A State of the second sec		1
Clause	Requirement + Test	Result - Remark	15	Verdict
	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.	-15	LCS Test	
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.			
	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.	主張能調整的 LCS Testine Lab	15	
54°	A skilled person shall not be unintentionally exposed to RS3.		13	27
10.6.5	Requirements for dose-based systems			Р
10.6.5.1	General requirements			Р
	Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.			
	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.	15	LOS TOOT	
	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and			

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Clause	Requirement + Test	Result - Remark	Verdic
10 ¹⁰	- Alter and Alter	h tea	A LOS L
	how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.		
10.6.5.2	Dose-based warning and requirements		Р
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1. The warning shall at least clearly indicate that	LOS TAT	服服份 Non S Lab
	listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.		
10.6.5.3	Exposure-based requirements		Р
	With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at.		
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	LCS Testing	LOSTO
	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.	A SA LOS TA	勝疑的 Non 3 Lab
1. And the second s	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.		
10.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	Р
10.6.6.1	Corded listening devices with analogue input With 94 dB <i>L</i> Aeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like		N/A

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Clause	Requirement + Test	Result - Remark	Verdic
6. V	- These re-	The r.	These in
	equalization, etc.) set to the combination of point that maximize the measured acoustic output, voltage of the listening device when playing th "programme simulation noise" as described in 50332-1 shall be \geq 75 mV.	the input ne fixed	
	NOTE The values of 94 dB and 75 mV corres with 85 dB and 27 mV or 100 dB and 150 mV		
10.6.6.2	Corded listening devices with digital input		Р
	With any playing device playing the fixed "pro- simulation noise" described in EN 50332-1, ar the volume and sound settings in the listening (for example, built-in volume level control, add sound features like equalization, etc.) set to th combination of positions that maximize the me acoustic output, the LAeq, <i>T</i> acoustic output of listening device shall be \leq 100 dB with an input of -10 dBFS.	nd with device ditional ne easured f the	a讯就到版份 LCS TestinS Lab
10.6.6.3	Cordless listening devices		P
10.6.6.4	In cordless mode, – with any playing and transmitting device pla fixed programme simulation noise described in 50332-1; and – respecting the cordless transmission standar where an air interface standard exists that specture the equivalent acoustic level; and – with volume and sound settings in the received device (for example, built-in volume level contraditional sound features like equalization, etc the combination of positions that maximize the measured acoustic output for the above mentration programme simulation noise, the LAeq, T acoustic output of the listening device shall be ≤ 100 d input signal of -10 dBFS.	n EN ards, ecifies ving trol, c.) set to e ioned ustic	To to MA
10.6.6.4	Measurement method Measurements shall be made in accordance v 50332-2 as applicable.	with EN	P
3	Modification to the whole document		





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Clause	Requiremer	nt + Test	109 m	MEL	Result - Rem	nark	NG)	Verdict
	Delete all th list:	e "country" note	es in the refe	erence docum	ent according	to the followin	ıg	Ρ
	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	1	
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2		
	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3		
	5.4.2.3.2.4	1 Note 2	5.4.2.5	Note 2	5.4.5.1	Note	脑	
- El to	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	300	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4		
	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	-	
	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2		
il and	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	-	
LCS Testing Lat	Y.4.5	Note					Ken I	
4	Modificatio	n to Clause 1		1999-7				200
1	Add the follo							N/A
	and electron	ne use of certaii nic equipment is e 2011/65/EU.						
5	Modificatio							





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- 10 BE 10	IEC 62368-1		a ⁴⁰	an inter
Clause	Requirement + Test	Result - R	Remark	Verdic
L.~	The r	- These re-	18	
4.Z1	Add the following new subclause after 4.9:			N/A
	To protect against excessive current, short-cir and earth faults in circuits connected to an a.c. mains , protective devices shall be included e as integral parts of the equipment or as parts building installation, subject to the following, a and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirer of B.3.1 and B.4 shall be included as parts of equipment; b) for components in series with the mains inp the equipment such as the supply cord, applia 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 ty or permanently connected equipment , to re dedicated overcurrent and short-circuit protect in the building installation, provided that the m of protection, e.g. fuses or circuit breakers, is specified in the installation instructions.	pe B bly on tion neans		義借 SLab
L 現意消息份 LCS Testing Lab	If reliance is placed on protection in the buildin installation, the installation instructions shall s state, except that for pluggable equipment t A the building installation shall be regarded as providing protection in accordance with the ra of the wall socket outlet.	o ype S	267 3 Lab - 15	TENN LOST
6	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 exte circuit is in addition given in EN 50491-3:200	rnal		N/A
7	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
	the second s	5.00	. 2m MA	限的
3	Modification to 10.5.1			





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	IEC 62368-1	Booult Bomork	Vordict
Clause	Requirement + Test	Result - Remark	Verdict
0.5.1	Add the following after the first paragraph:	6	N1/A
	For RS 1 compliance is checked by measurement under the following conditions:		N/A
	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.	NEA TOSTEST	庭街 19 Lab
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	- The sec	
	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.		
	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.	工新社市制度(分)	STE T
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	Les les	S LOS
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.		
9	Modification to G.7.1		
G.7.1	Add the following note:		N/A
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		
10	Modification to Bibliography		a let





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Clause	Requirement + Test	STRREING Lan	152	Result - Remark	15	Verdic
0.01	- Carlor II		100		160	
	Add the following not	tes for the standa	ards indicated	:		N/A
	IEC 60130-9 IEC 60269-2 IEC 60309-1 IEC 60364 IEC 60661-2-4 IEC 60664-5 IEC 61032:1997 IEC 61508-1 IEC 61558-2-4 IEC 61558-2-4 IEC 61558-2-6 IEC 61643-1 IEC 61643-311 IEC 61643-321 IEC 61643-331	NOTE Harmoni: NOTE Harmoni:	zed as HD 6026 zed as EN 6030 zed as EN 6060 zed as EN 6060 zed as EN 6103 zed as EN 6150 zed as EN 6155 zed as EN 6156 zed as EN 6164 zed as EN 6164 zed as EN 6164 zed as EN 6164	39-2. 19-1. in HD 384/HD 60364 serie 11-2-4. 34-5. 32:1998 (not modified). 18-1. 58-2-1. 58-2-4. 58-2-6. 43-1. 43-21. 43-311. 43-321.	S.	运行的 5 Lab
11	ADDITION OF ANNE					
ZB 4.1.15	ANNEX ZB, SPECIA Denmark, Finland, N			EN)		N/A
LUS Testing Lab	To the end of the sub added: Class I pluggable ed for connection to othe network shall, if safet reliable earthing or if are connected betwe and accessible parts that the equipment sh earthed mains socke	quipment type A er equipment or a sy relies on conne surge suppresso en the network to s, have a marking nall be connected	A intended a ection to ors erminals g stating			立前的 Los Te
Les tri	The marking text in the beas follows: In Denmark : "Apparaten stikkontakt med jot stikproppens jord." In Finland : "Laite on varustettuun pistoras In Norway : "Apparaten stikkontakt"	atets stikprop ska ord som giver fort liitettävä suojako iaan"	l tilsluttes bindelse til bskettimilla			是行 g Lab



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Clause	Requirement + Test	16	Result - Remark	16	Verdict	D.:

4.7.3	United Kingdom		N/A
	To the end of the subclause the following is added:		
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be		
	assessed to the relevant clauses of BS 1363. Also		
5.2.2.2	see Annex G.4.2 of this annex Denmark		N/A
		200	云南
	After the 2nd paragraph add the following:		6 L3b
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the	LCS TASK	
5.4.11.1	limits of 3,5 mA a.c. or 10 mA d.c. Finland and Sweden		N/A
and			11/7
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 	The street ab	立刑检
	 one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. 		FCa.
	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	T. Are	4份
	• 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),	LES LOS TANI	18 rap
	and		
	 is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. 		
	It is permitted to bridge this insulation with a		
TRF No. IEC			
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and the Man Lab	IEC 623	68-1	to the passion Lab	部形式
Clause	Requirement + Test	16	Result - Remark	Verdic
	 capacitor complying with EN 60384-14:20 subclass Y2. A capacitor classified Y3 according to EN 14:2005, may bridge this insulation under the following conditions: the insulation requirements are satisfied having a capacitor classified Y3 as det EN 60384-14, which in addition to the testing, is tested with an impulse test of defined in 5.4.11; the additional testing shall be performed the test specimens as described in EN 14; the impulse test of 2,5 kV is to be performed the endurance test in EN 60384-14, in the EN 60384-14, in the endurance test in EN 60384-14, in the EN 60384-14, in the endurance test in EN 60384-14, in the EN 60384-14, in the endurance test in EN 60384-14, in the endurance test in	60384- ed by fined by Y3 of 2,5 kV ed on all I 60384- ned before		E Mile III E Bi LOS Testi 9 Lab
5.5.2.1	sequence of tests as described in EN 603 Norway After the 3rd paragraph the following is ac			N/A
	Due to the IT power system used, capacit required to be rated for the applicable line voltage (230 V).		定语/检测器/2019	正明的
5.5.6	Finland, Norway and Sweden To the end of the subclause the following Resistors used as basic safeguard or br basic insulation in class I pluggable eq type A shall comply with G.10.1 and the t G.10.2.	idging J uipment		N/A
5.6.1	Denmark 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 sco- outlets the protection for pluggable equipment type A shall be an integral part equipment. <i>Justification:</i> In Denmark an existing 13 A socket outlet protected by a 20 A fuse.	s ocket- t of the		N/A





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Clause	Requirement + Test	Result - Remark	Verdict

5.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for pluggable equipment type A , the following is added: – the protective current rating is taken to be 13 A,		
	this being the largest rating of fuse used in the mains plug.		
5.6.4.2.1	France		N/A
151 五月	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	15日本語(後期)	
- The m	instead of 16 A.	-The rou	
5.6.5.1	To the second paragraph the following is added:		N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: $1,25 \text{ mm}^2$ to $1,5 \text{ mm}^2$ in cross-sectional area.		
5.6.8	Norway		N/A
and the second	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		
Line sting has	60417-6092, as specified in F.3.6.2, is accepted. Denmark	CSTRSHIPLU	T. Chille
5.7.6	To the end of the subclause the following is added:	14	N/A
	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	- 古羽物道	N/A
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	LCS Tasti	
	It is however accepted to provide the insulation		

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Clause	Requirement + Test	Mar	Result - Rema	ark 🛛 🚺	Verdic
Qiadoo		1000			Voraio
HE IN	external to the equipment by an adapted interconnection cable with galvanic iso may be provided by a retailer, for exam The user manual shall then have the for similar information in Norwegian and S language respectively, depending on in country the equipment is intended to be "Apparatus connected to the protective the building installation through the mat connection or through other apparatus connection to protective earthing – and to a television distribution system cable, may in some circumstances cree hazard. Connection to a television distri system therefore has to be provided th device providing electrical isolation bel frequency range (galvanic isolator, see 11)"	lator, which nple. Swedish n what e used in: e earthing of ains with a using coaxial ate a fire ribution frough a low a certain		LCS Test	在(1) S Lab
工用检测器的 LCG Testing Lab	NOTE In Norway, due to regulation for installations, and in Sweden, a galvani shall provide electrical insulation below insulation shall withstand a dielectric st 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 mir Translation to Norwegian (the Swedish also be accepted in Norway):	c isolator v 5 MHz. The trength of n.	之所的意思。 LCS Testing Lab		立和检 LCSTO
	"Apparater som er koplet til beskyttelse nettplugg og/eller via annet jordtilkople utstyr – og er tilkoplet et koaksialbaser nett, kan forårsake brannfare. For å unngå dette skal det ved tilkoplin apparater til kabel-TV nett installeres e galvanisk isolator mellom apparatet og nettet."	et t kabel-TV ng av en			
	Translation to Swedish: "Apparater som är kopplad till skyddsjo vägguttag och/eller via annan utrustnir samtidigt är kopplad till kabel-TV nät ko medfőra risk főr brand. Főr att undvika vid anslutning av apparaten till kabel-T galvanisk isolator finnas mellan appara kabel-TV nätet.".	ng och an i vissa fall detta skall V nät			鼓術 IB Lall

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Clause	Requirement + Test	Result - Remark	Verdict

	Add the following after the 2 nd dash bullet in 3 rd paragraph:		
	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, 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		
3.4.2	Denmark		NAES
- 15 後期發行	To the end of the subclause the following is added:	an the Table of the loss	LCG
L Part resting an	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.	CCS Testing L	*
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.		
LES THE	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.		
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.		
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.		
TRF No. IEC62	2368_1E		





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Clause	Requirement + Test	Result - Remark	Verdict
	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 5a or DK 1-7a <i>Justification:</i> Heavy Current Regulations, Section 6c	1-	
G.4.2	United Kingdom		N/A
	To the end of the subclause the following is adde	ed:	制运行
-62	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, exce that the test of 12.17 is performed at not less tha 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.	ept in / e	sti 9 m
G.7.1	United Kingdom		N/A
	To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standa plug' in accordance with the Plugs and Sockets e (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	ard a state of the	TIM MIT
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		
G.7.1	Ireland		N/A
	To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member Sta which is equivalent to the relevant Irish Standard	te	期後的 ering Lab

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Clause	Requirement + Test	Result - Remark	Verdict
G.7.2	Ireland and United Kingdom		N/A

	To the first paragraph the following is added:			
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.			
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)			
10.5.2	Germany 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.	Los testi	N/A	
	<i>Justification</i> : German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.			
立形建制器的 LCS Teating Lat	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	CS TOSUNG LAD	12 M Marini Los Teatri	





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ZD	IEC and CENELEC CODE DESIGNATIONS F			1 N/A
	Type of flexible cord		signations	
		IEC	CENELEC	
	PVC insulated cords			
	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	最份 a S Lab
	Rubber insulated cords			
	Braided cord	60245 IEC 51	H03RT-F	
	Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	
	Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	
	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
	Cords having high flexibility	•		
	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H	· · · · · · · · · · · · · · · · · · ·
	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	LCST65K
	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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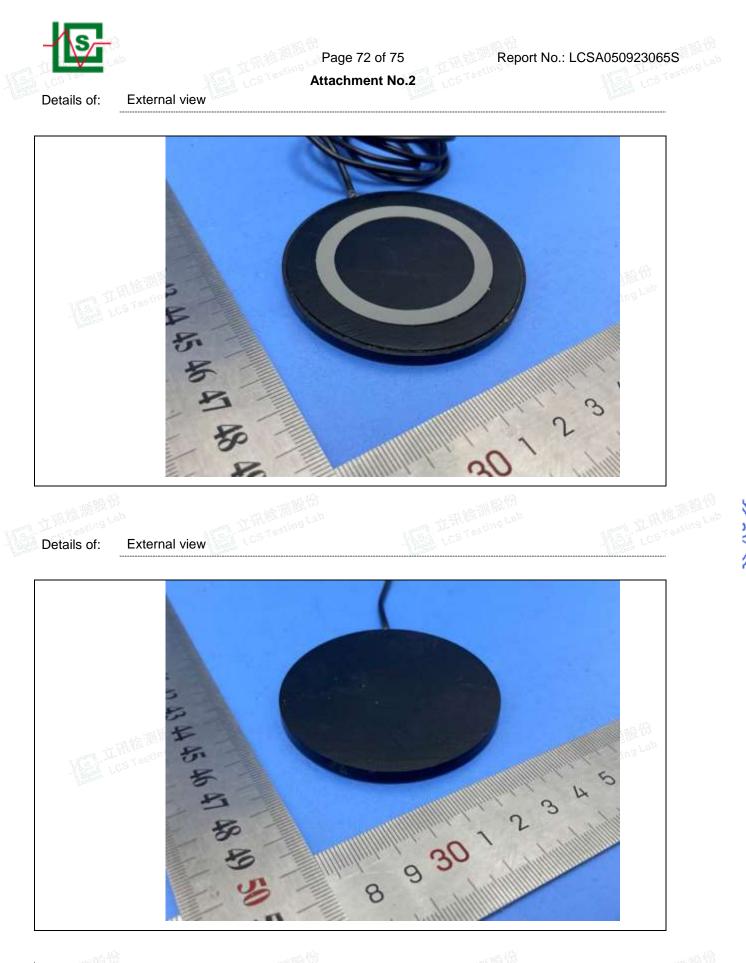
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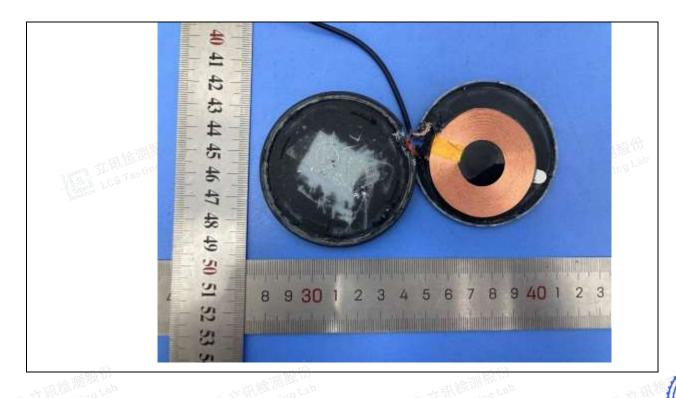
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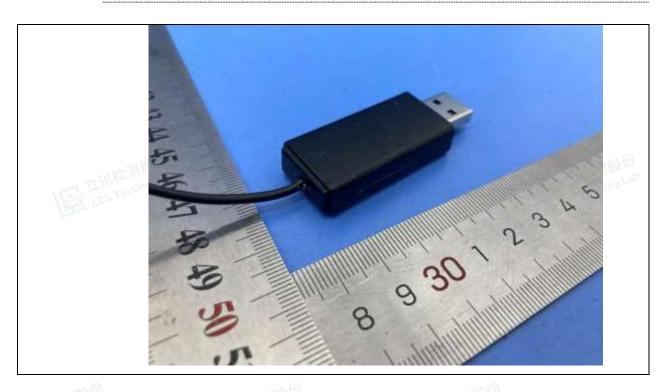
Report No.: LCSA050923065S

Details of: Internal view





External view



TRF No. IEC62368_1E



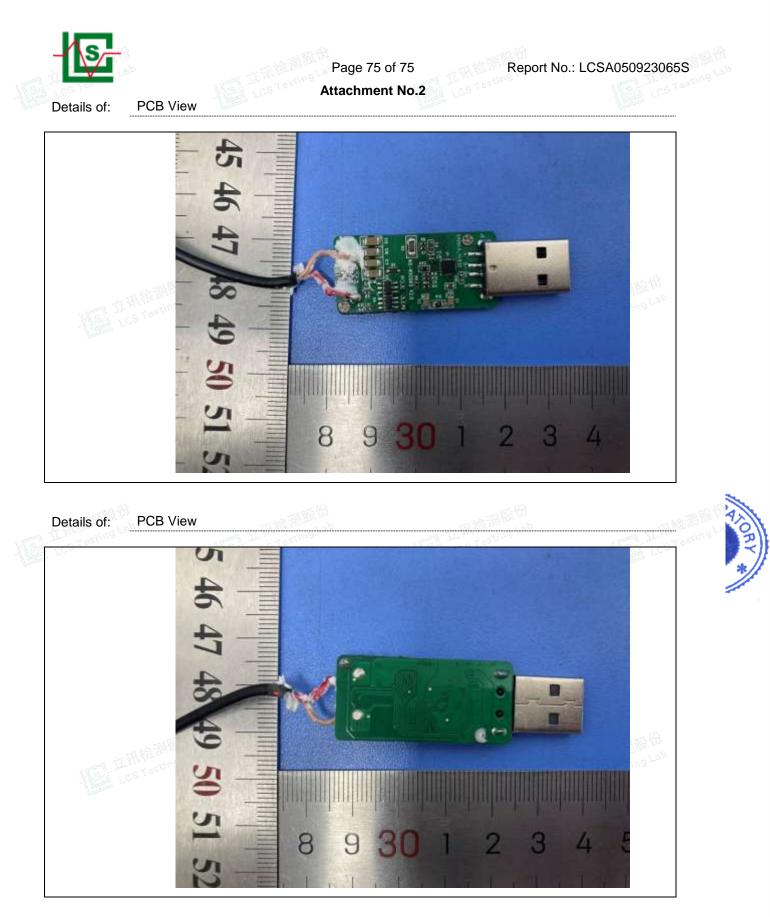
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