

# **TEST REPORT**

**Applicant:** HYTTO PTE. LTD.

Address: 152 Beach Road, #11-05 Gateway East, Singapore

189721

**Equipment Type:** Lovense Webcam 2

Model Name: Lovense Webcam 2

Brand Name: Lovense

IEC 62368-1: 2018

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

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

Sample Arrival Date: Jul. 02, 2024

**Test Date:** Jul. 02, 2024 - Jul. 11, 2024

Date of Issue: Mar. 13, 2025

#### **ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

Tested by: Boxin Liao Checked by: Jinxin Chen Approved by: Sunny Zou

(Technical Director)

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### **Revision History**

Version Issue Date

Revisions

Rev. 01 Mar. 13, 2025

Initial Issue

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# 1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

# 1.1 Identification of the Testing Laboratory

Company Name	ompany Name Shenzhen BALUN Technology Co., Ltd.	
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe West	
	Road, Nanshan District, ShenZhen, GuangDong Province	
Phone Number +86 755 6685 0100		

# 1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.	
A dalua a a	Block B, 1/F, Baisha Science and Technology Park, Shahe West	
Address	Road, Nanshan District, ShenZhen, GuangDong Province	
	All measurement facilities used to collect the measurement data are	
Description	located at Block B, 1/F, Baisha Science and Technology Park, Shahe	
	West Road, Nanshan District, ShenZhen, GuangDong Province	



# 2 PRODUCT INFORMATION

# 2.1 Applicant Information

Applicant	HYTTO PTE. LTD.
Address	152 Beach Road, #11-05 Gateway East, Singapore 189721

# 2.2 Manufacturer Information

Manufacturer	HYTTO PTE. LTD.
Address	152 Beach Road, #11-05 Gateway East, Singapore 189721

# 2.3 General Description for Equipment under Test (EUT)

Equipment Type	Lovense Webcam 2
Model Name Under Test	Lovense Webcam 2
Series Model Name	1
Description of Model	1
name differentiation	
Hardware Version	1
Software Version	1
Dimensions(Approx.)	1
Weight(Approx.)	46.4g

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# 2.4 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

Ratings	Input: 5V === 1.0A, Class III;		
Product group			
Classification of use by			
Supply Connection	☐ AC Mains ☐ DC Mains		
	- ⊠ ES1 □ ES2 □ ES3		
Supply % Tolerance	<u> </u>		
	□ +20%/-15%		
	None		
Supply Connection – Type	☐ pluggable equipment type A -		
	☐ non-detachable supply cord		
	☐ appliance coupler		
	☐ direct plug-in		
	☐ mating connector		
	☐ pluggable equipment type B -		
	☐ non-detachable supply cord		
	☐ appliance coupler		
	☐ permanent connection		
	☐ mating connector ☒ other: Not directly connect to mains		
Considered current rating of	□ A;		
protective device as part of	Installation location:  building;  equipment		
building or equipment	□ N/A		
installation			
Equipment mobility	mobility		
	☐ direct plug-in ☐ stationary ☐ for building-in		
	☐ wall/ceiling-mounted ☐ SRME/rack-mounted		
	□ other:		
Over voltage category			
(OVC)	☐ OVC IV ☑ other: Not directly connect to mains		
Class of equipment	☐ Class I ☐ Class II ☐ Class III		
	☐ Not classified ☐ other		
Access location			
	□ outdoor location□		
Pollution degree (PD)	□ PD 1 ⊠ PD 2 □ PD 3		

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Manufacturer's specified	40°C ☐ Outdoor: minimum °C	
maximum operating ambient		
IP protection class		
Power Systems	☐ TN ☐ TT ☐ IT V <sub>L-L;</sub> ☐ dc mains	
	□ not AC mains	
Altitude during operation (m)		
Altitude of test laboratory		
(m)		
Mass of equipment (kg)	⊠ 46.4g	
Note: The above EUT information was declared by manufacturer and for more detailed features		
description, please refer to the manufacturer's specifications or user's manual.		

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# 3 SUMMARY OF TEST

#### 3.1 Test Standards

No.	Identity	Document Title
1	IEC 62368-1:2018	Audio/video, information and communication technology equipment –Part 1: Safety requirements
2	EN IEC 62368-1:2020+A11:2020	Audio/video, information and communication technology equipment –Part 1: Safety requirements
3	BS EN IEC 62368-1:2020+A11:2020	Audio/video, information and communication technology equipment –Part 1: Safety requirements

#### 3.2 Possible test box verdict

Possible test box verdicts:

-test box does not apply to the test object. : N/A

-test object does meet the requirement....... P(Pass)

-test object does not meet the requirement..: F(Fail)

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#### 3.3 Test item

Tests performed (name of test and test clause): All applicable tests as described in Test Case

and Measurement Sections were performed.

4	General requirements	
5.2	Electrical energy source classifications	
5.4.1.4, 6.3.2, 9.0, B.2.6	Maximum operating temperatures for materials, components and systems	
6.2.2	Electrical power sources (PS) measurements for classification	
6.2.3.2	Determination of Potential Ignition Sources (Resistive PIS)	
6.3, 6.4	Simulated abnormal operating and single fault conditions	
9.4.1	Equipment safeguards for thermal burn	
Annex B.2.5	Input tests	
Annex B.3	Simulated abnormal operating conditions	
	Conditions	
Annex B.4	Simulated single fault conditions	
B.4 Annex	Simulated single fault conditions  Durability, legibility and	
B.4 Annex F.3.9 Annex	Simulated single fault conditions  Durability, legibility and permanence of markings	

Summary of compliance with National Differences:

List of countries addressed:

- 1. European group
- 2. Ireland and United Kingdom

Note:

- 1. Max. ambient temperature 40°C.
- 2. For temperature test the thermocouples method used, regarding fault condition test simulated faults applied.

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3. EUT passed all the tests.	



#### 3.4 General information

#### **GENERAL REMARKS:**

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

#### **GENERAL PRODUCT INFORMATION:**

- 1. The equipment is a Lovense Webcam 2, the tested model is Lovense Webcam 2 used as Audio/video, information and communication technology equipment which indoor use only.
- 2.Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.
- 3. The product it to be powered by external power sources via DC input terminal with supply 5Vdc, Class III, PS2 circuits.

#### **Description of change(s):**

Compared with the EUT of test report BL-SZ2470096-101, the changes of the EUT of this report as below:

Different from the model name, equipment type, applicant and manufacturer.

For the above described change(s) the following was considered to be necessary:

Change	Testing	Comments
1	1	1

Other hardware circuit and software are the same as EUT referred in test report BL-SZ2470096-101. Therefore, in addition to the above differences, all test and EUT information are derived from the BL-SZ2470096-101 report, which was issued by Shenzhen BALUN Technology Co., Ltd. on Aug. 13, 2024.

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: Input circuit/port (5.0Vd.c. by external power)	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 <sup>st</sup> S	2 <sup>nd</sup> S	

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PS2: <100W	РСВ	Comply with	V-1 or better	N/A
(Input and Internal circuit)		6.3		
PS2: <100W	Enclosure	Comply with	Comply with	N/A
(Input and Internal circuit)		6.3	6.4.5	
PS2: <100W	Combustible materials	Comply with	Comply with	N/A
(Input and Internal circuit)	within equipment	6.3	6.4.5	
7	Injury caused by hazardous	s substances		
Class and Energy Source	Body Part		Safeguards	
(e.g. Ozone)	(e.g., Skilled)	В	S	R
N/A	Ordinary	N/A	N/A	N/A
8	Mechanically-caused injury	ry		
Class and Energy Source	Body Part	Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Corner and edge are smooth	Ordinary	N/A	N/A	N/A
MS1: Mass of EUT	Ordinary	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: Accessible parts	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
LED indicating light	Ordinary	N/A	N/A	N/A
(Exempt group)				
Supplementary Information:				
'B" – Basic Safeguard; "S" -	- Supplementary Safeguard;	"R" - Reinforce	ed Safeguard	



# 4 GENERAL TEST CONFIGURATIONS

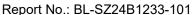
### **4.1 Test Environments**

Temperature (°C)	15°C to 35°C
Relative Humidity (%)	35% to 75%
Atmospheric Pressure (kPa)	100kPa to 102kPa

# **4.2 Test Equipment List**

No.	Equipment name	Manufacture	Serial No.	Calibration Due Date	Usage
1	Electronic Scale	WUXINHENGQI	BZ-SFT-L207	2025/08/06	<b>√</b>
2	Digital Multimeter	Fluke	BZ-SFT-L256	2026/01/12	√
3	Heating Recorder	Toprie	BZ-SFT-L314	2026/01/12	√
4	DC power source	UNI-T	BZ-SFT-L272	2025/05/21	V
5	Stop Watch	TF	BZ-SFT-L068	2025/05/10	<b>√</b>
6	Pull and push Tester	HANDPI	BZ-SFT-L045	2025/10/07	V
7	Tape Measure	DELI	BZ-SFT-L145	2025/08/28	<b>√</b>
8	Digital Caliper	CHENGLIANG	BZ-SFT-L317	2025/05/08	√
9	Impact ball	/	BZ-KKX-L012	2025/05/17	√
10	Ring of band Impact ball	JINGBANG	BZ-SFT-L415	2025/08/27	√
11	High temperature Chamber	JINGBANG	BZ-SFT-L327	2025/07/03	V

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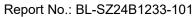


	IEC 62368-1			
Clause	Requirement-Test	Result-Remark	Verdict	

# **5 TEST RESULTS**

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 EN and/or national standards are used correctly within their ratings. Components not covered by EN standards are tested under the conditions present in the equipment. See also Annex G	Р
4.1.3	Equipment design and construction	Evaluation of safeguards regarding limiting the outputs to fulfill ES1 and protection in regard to risk of spread of fire, mechanical and thermal burn injury considered.	Р
4.1.4	Specified ambient temperature for outdoor use (°C)		N/A
4.1.5	Constructions and components not specifically covered		N/A
4.1.8	Liquids and liquid filled components (LFC)		N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness		Р
4.4.3.1	General		Р
4.4.3.2	Steady force tests	(See Clause T.5)	Р
4.4.3.3	Drop tests		N/A
4.4.3.4	Impact tests	(See Clause T.6)	Р
4.4.3.5	Internal accessible safeguard tests		N/A
4.4.3.6	Glass impact tests		N/A
4.4.3.7	Glass fixation tests		N/A
	Glass impact test (1J)		N/A

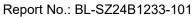
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•	IEC 62368-1		•
Clause	Requirement-Test	Result-Remark	Verdict
	Push/pull test (10 N)		N/A
4.4.3.8	, ,	(See Clause T.9)	P
	Thermoplastic material tests	(See Clause T.8)	
4.4.3.9	Air comprising a safeguard	A.C	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests of 4.4.3.2, 4.4.3.4, no safeguard damaged.	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
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	Only ES1 for internal circuits, no safeguard affected by conductor displacement.	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:	The EUT is not for direct insertion into mains socket outlets, class III equipment	N/A
4.7.3	Torque (Nm):		N/A
4.8	Equipment containing coin/button cell batteries		N/A
4.8.1	General		N/A
4.8.2	Instructional safeguard:		N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test		N/A
4.8.4.2	Stress relief test		N/A
4.8.4.3	Battery replacement test		N/A
4.8.4.4	Drop test		N/A

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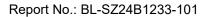
	IEC 6	52368-1	
Clause	Requirement-Test	Result-Remark	Verdict
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
	30N force test with test probe		N/A
	20N force test with test hook		N/A
4.9	Likelihood of fire or shock due to entry	of conductive object	N/A
4.10	Component requirements		N/A
4.10.1	Disconnect Device		N/A
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY		
5.2	Classification and limits of electrical energy sour	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:	Class III equipment	N/A
5.2.2.4	Single pulse limits:	No such single pulses generated in the EUT or applied to it.	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses within the EUT.	N/A
5.2.2.6	Ringing signals	No such ringing signals within the EUT	N/A
5.2.2.7	Audio signals	(See Annex E)	N/A
5.3	Protection against electrical energy sources		Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See only 4.3 and 5.3 to 5.5 which applies to protection between the accessible parts and hazardous parts of other circuits.	Р
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	Only ES1 circuit can be accessed for this product.	Р
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors		N/A
5.3.2.1	Accessibility to electrical energy sources and	Only ES1 circuit can be accessed for this product.	Р

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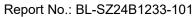


	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
	safeguards		
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2			
5.3.2.2	Contact requirements		N/A
5000	Test with test probe from Annex V		— N//A
5.3.2.2 a)	Air gap – electric strength test potential (V):		N/A
5.3.2.2 b)	Air gap – distance (mm):		N/A
5.3.2.3	Compliance		N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material	All circuits or parts are	N/A
		considered as ES1. Insulations	
		are not required.	
5.4.1.3	Material is non-hygroscopic		N/A
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table)	Р
5.4.1.5	Pollution degrees:	2	
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:	(See appended table 5.4.1.8)	N/A
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.10.2	Vicat test:	(See appended table 5.4.1.10.2)	N/A
5.4.1.10.3	Ball pressure test:	(See appended table 5.4.1.10.3)	N/A
5.4.2	Clearances		N/A
5.4.2.1	General requirements		N/A

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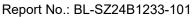


IEC 62368-1					
Clause	Requirement-Test	Result-Remark	Verdict		
	Clearances in circuits connected to AC Mains, Alternative method	(See Annex X)	N/A		
5.4.2.2	Procedure 1 for determining clearance		N/A		
	Temporary overvoltage:		_		
5.4.2.3	Procedure 2 for determining clearance		N/A		
5.4.2.3.2.2	a.c. 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:		_		
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	(See appended table 5.4.2)	N/A		
5.4.2.5	Multiplication factors for clearances and test voltages		N/A		
5.4.2.6	Clearance measurement:	(See appended table 5.4.2)	N/A		
5.4.3	Creepage distances		N/A		
5.4.3.1	General		N/A		
5.4.3.3	Material group:		_		
5.4.3.4	Creepage distances measurement:	(See appended table 5.4.3)	N/A		
5.4.4	Solid insulation		N/A		
5.4.4.1	General requirements		N/A		
5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.4.2)	N/A		
5.4.4.3	Insulating compound forming solid insulation		N/A		
5.4.4.4	Solid insulation in semiconductor devices		N/A		
5.4.4.5	Insulating compound forming cemented joints		N/A		
5.4.4.6	Thin sheet material		N/A		
5.4.4.6.1	General requirements		N/A		
5.4.4.6.2	Separable thin sheet material		N/A		
	Number of layers (pcs):		N/A		
5.4.4.6.3	Non-separable thin sheet material		N/A		
	Number of layers (pcs):		N/A		

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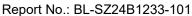


	IEC 62368-1		, , , , , , , , , , , , , , , , , , ,
Clause	Requirement-Test	Result-Remark	Verdict
5.4.4.6.4	Standard test procedure for non-separable thin sheet material		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, <i>E</i> <sub>P</sub> , <i>K</i> <sub>R</sub> , <i>d</i> , <i>V</i> <sub>PW</sub> (V)		N/A
	Alternative by electric strength test, tested voltage (V), K <sub>R</sub>		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		N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C), duration (h):		_
5.4.9	Electric strength test		N/A
5.4.9.1	Test procedure for type test of solid insulation:		N/A
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from external circuits		N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		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

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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
5.4.11	Separation between external circuits and earth		N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	SPDs bridge separation between external circuit and earth		N/A
	Rated operating voltage U <sub>op</sub> (V):		_
	Nominal voltage U <sub>peak</sub> (V):		_
	Max increase due to variation $\Delta U_{sp}$ :		_
	Max increase due to ageing $\Delta U_{sa}$ :		_
5.4.11.3	Test method and compliance:		N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:		N/A
5.4.12.3	Compatibility of an insulating liquid:		N/A
5.4.12.4	Container for insulating liquid:		N/A
5.5	Components as safeguards		
5.5.1	General		N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	(See appended table 5.5.2.2)	N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers	(See sub-clause 5.4 or Clause G.12)	N/A
5.5.5	Relays	(See sub-clause 5.4)	N/A
5.5.6	Resistors	(See Clause G.10)	N/A
5.5.7	SPDs	(See Clause G.8)	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable		N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment		N/A
	RCD rated residual operating current (mA):		_

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IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict	
5.6	Protective conductor		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	
	Protective earthing conductor size (mm²):		_	
	Protective earthing conductor serving as a reinforced safeguard		N/A	
	Protective earthing conductor serving as a double safeguard		N/A	
5.6.4	Requirements for protective bonding conductors		N/A	
5.6.4.1	Protective bonding conductors		N/A	
	Protective bonding conductor size (mm²):		_	
5.6.4.2	Protective current rating (A):		N/A	
5.6.5	Terminals for protective conductors		N/A	
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)		N/A	
	Terminal size for connecting protective bonding conductors (mm)		N/A	
5.6.5.2	Corrosion		N/A	
5.6.6	Resistance of the protective bonding system		N/A	
5.6.6.1	Requirements		N/A	
5.6.6.2	Test Method	(See appended table 5.6.6)	N/A	
5.6.6.3	Resistance (Ω) or voltage drop	(See appended table 5.6.6)	N/A	

5.6.7

5.6.8

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Reliable connection of a protective earthing

Conductor size (mm²).....:

Class II with functional earthing marking .....:

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N/A

N/A

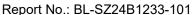
N/A

N/A

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conductor

Functional earthing





IEC 62368-1			
Clause	Requirement-Test	Result-Remark	Verdict

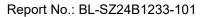
	Appliance inlet cl & cr (mm):	N/A
5.7	Prospective touch voltage, touch current and protective conductor current	
5.7.2	Measuring devices and networks	N/A
5.7.2.1	Measurement of touch current	N/A
5.7.2.2	Measurement of voltage	N/A
5.7.3	Equipment set-up, supply connections and earth connections	N/A
5.7.4	Unearthed accessible parts: (See appended	d table 5.7.4) N/A
5.7.5	Earthed accessible conductive parts (See appended	d table 5.7.5) N/A
5.7.6	Requirements when touch current exceeds ES2 limits	N/A
	Protective conductor current (mA):	N/A
	Instructional Safeguard:	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	N/A
5.7.7.1	Touch current from coaxial cables	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	N/A
5.7.8	Summation of touch currents from external circuits	N/A
	a) Equipment connected to earthed external circuits, current (mA):	N/A
	b) Equipment connected to unearthed external circuits, current (mA):	N/A
5.8	Backfeed safeguard in battery backed up supplies	N/A
	Mains terminal ES: (See appended	d table 5.8) 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:	PS (power source) classification	Р
		determined by measuring the maximum power in Figures 34 and	

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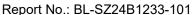


	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
		35 for load and power source circuits.	
6.2.3	Classification of potential ignition sources	See the following details.	Р
6.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	N/A
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating a	nd abnormal operating conditions	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.1.5 and B.3)	Р
	Combustible materials outside fire enclosure:	Min. rated HB.	Р
6.4	Safeguards against fire under single fault condition	ons	Р
6.4.1	Safeguard method	Method by control of fire spread applied	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions:		N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits	See below.	Р
6.4.5	Control of fire spread in PS2 circuits	See below.	Р
6.4.5.2	Supplementary safeguards	Comply with compliance as follow Printed board: rated V-1 or better. Plastic enclosure: rated HB or better. All other components: at least V-2 except for mounted on min. V-1 material or small parts of combustible material (with mass less than 4g). Components complying with relevant IEC standard.	P
6.4.6	Control of fire spread in PS3 circuits		N/A

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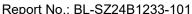
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Порон П	No.: BL-SZ24B1233-101 IEC 62368-1		ССССС
Clause	Requirement-Test	Result-Remark	Verdict
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	No specific barrier provided.	N/A
6.4.8	Fire enclosures and fire barriers		N/A
6.4.8.2	Fire enclosure and fire barrier material properties		N/A
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure	No fire enclosure required	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	No fire enclosure required	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):		N/A
6.4.8.3.4	Bottom openings and properties		N/A
	Openings dimensions (mm):		N/A
	Flammability tests for the bottom of a fire enclosure	(See Clause S.3)	N/A
	Instructional Safeguard:		N/A
6.4.8.3.5	Side openings and properties		N/A
	Openings dimensions (mm)		N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)		N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:		N/A
6.4.9	Flammability of insulating liquid:	No such part.	N/A
6.5	Internal and external wiring	,	Р
6.5.1	General requirements	VW-1 used	Р
6.5.2	Requirements for interconnection to building wiring		N/A
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A
6.6	Safeguards against fire due to the connection to	additional equipment	N/A

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IEC 62368-1			·
Clause	Requirement-Test	Result-Remark	Verdict

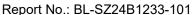
7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
7.2	Reduction of exposure to hazardous substances	N/A
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	
	Personal safeguards and instructions:	_
7.5	Use of instructional safeguards and instructions	N/A
	Instructional 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		Р
8.4	Safeguards against parts with sharp edges and c	orners	Р
8.4.1	.4.1 Safeguards MS1: No sharp edges or corners. MS1: Mass less than 7 kg.		Р
	Instructional Safeguard		N/A
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded, and is considered as MS1.	Р
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving 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:		N/A
8.5.4	Special categories of equipment containing moving parts		N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A

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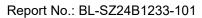




Report No.: BL-SZ24B1233-101  IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict	
8.5.4.2.2	Access protection everyide		NI/A	
	Access protection override		N/A	
8.5.4.2.2.1	Override system		N/A	
8.5.4.2.2.2	Visual indicator		N/A	
8.5.4.2.3	Emergency stop system		N/A	
	Maximum stopping distance from the point of activation (m)		N/A	
	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	
	- Cable assembly:		N/A	
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A	
8.5.4.3.1	Equipment safeguards		N/A	
8.5.4.3.2	Instructional safeguards against moving parts:		N/A	
8.5.4.3.3	Disconnection from the supply		N/A	
8.5.4.3.4	Cut type and test force (N):		N/A	
8.5.4.3.5	Compliance		N/A	
8.5.5	High pressure lamps		N/A	
	Explosion test:		N/A	
8.5.5.3	Glass particles dimensions (mm):		N/A	
8.6	Stability of equipment		N/A	
8.6.1	General		N/A	
	Instructional safeguard:		N/A	
8.6.2	Static stability		N/A	
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):			

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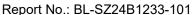


	IEC 62368-1	
Clause	Requirement-Test Result-Remark	Verdict
	T-11.44	NI/A
	Tilt test	N/A
8.6.4	Glass slide test	N/A
8.6.5	Horizontal force test:	N/A
8.7	Equipment mounted to wall, ceiling or other structure	N/A
8.7.1	Mount means type	N/A
8.7.2	Test methods	N/A
	Test 1, additional downwards force (N):	N/A
	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:	_
	Force applied (N):	_
8.9	Wheels or casters attachment requirements	N/A
8.9.2	Pull test	N/A
8.10	Carts, stands and similar carriers	N/A
8.10.1	General	N/A
8.10.2	Marking and instructions:	N/A
8.10.3	Cart, stand or carrier loading test	N/A
	Loading force applied (N):	N/A
8.10.4	Cart, stand or carrier impact test	N/A
8.10.5	Mechanical stability	N/A
	Force applied (N)	_
8.10.6	Thermoplastic temperature stability	N/A
8.11	Mounting means for slide-rail mounted equipment (SRME)	N/A
8.11.1	General	N/A
8.11.2	Requirements for slide rails	N/A

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'	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
	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		N/A
8.11.4	Compliance		N/A
8.12	Telescoping or rod antennas		N/A
	Button/ball diameter (mm)		_

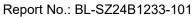
9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits	Touch temperature limits	
9.3.1	Touch temperatures of accessible parts:	(See appended table)	Р
9.3.2	Test method and compliance		Р
9.4	Safeguards against thermal energy sources		Р
9.5	Requirements for safeguards		Р
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	Р
9.5.2	Instructional safeguard:		N/A
9.6	Requirements for wireless power transmitters		N/A
9.6.1	General		N/A
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance:	(See appended table 9.6)	N/A

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification		Р
	Lasers:	No lasers	_

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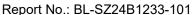


	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
	Lamps and lamp systems	See 10.4	
	Image projectors:	No Image projectors	
	X-Ray:	No X-Ray radiation	
	Personal music player		
10.3	Safeguards against laser radiation		N/A
	The standard(s) equipment containing laser(s) comply:		N/A
10.4	Safeguards against optical radiation from lamps types)	and lamp systems (including LED	Р
10.4.1	General requirements	For LED indicator, Indicating LED considered as RS1, no safeguards required.	Р
	Instructional safeguard provided for accessible radiation level needs to exceed		N/A
	Risk group marking and location:		N/A
	Information for safe operation and installation		N/A
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure:	(See Annex C)	N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation		N/A
10.5.1	Requirements		N/A
	Instructional safeguard for skilled persons:		_
10.5.3	Maximum radiation (pA/kg):		_
10.6	Safeguards against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):		N/A
	Unweighted RMS output voltage (mV):		N/A
	Digital output signal (dBFS):		N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements		N/A

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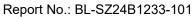
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		<u> </u>	
Clause	Requirement-Test	Result-Remark	Verdict
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements		N/A
	30 s integrated exposure level (MEL30):		N/A
	Warning for MEL ≥ 100 dB(A)		N/A
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.)		N/A
10.6.6.1	Corded listening devices with analogue input		N/A
	Listening device input voltage (mV)		N/A
10.6.6.2	Corded listening devices with digital input		N/A
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):		N/A
10.6.6.3	Cordless listening devices		N/A
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers:	(See Annex E)	N/A
B.2.3	Supply voltage and tolerances		N/A
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General		Р
B.3.2	Covering of ventilation openings	No opening	N/A
	Instructional safeguard:		N/A

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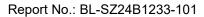


	IEC 62368-1		•
Clause	Requirement-Test	Result-Remark	Verdict
B.3.3	DC mains polarity test		N/A
B.3.4	Setting of voltage selector	No setting of voltage selector within the EUT	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3 &B.4)	N/A
B.3.6	Reverse battery polarity	No reverse battery polarity	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3 &B.4)	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	Р
B.4	Simulated single fault conditions		Р
B.4.1	General		Р
B.4.2	Temperature controlling device	No such device used.	N/A
B.4.3	Blocked motor test	No motor	N/A
B.4.4	Functional insulation	See the following details.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.3 &B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.3 &B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards		N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.3 &B.4)	Р
B.4.6	Short circuit or disconnection of passive components	(See appended table B.3 &B.4)	Р
B.4.7	Continuous operation of components		N/A
B.4.8	Compliance during and after single fault conditions	(See appended table B.4)	Р
B.4.9	Battery charging and discharging under single fault conditions	No battery used	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method		N/A

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Clause	Requirement-Test	Result-Remark	Verdict
C.2	IN/ limbs a malision in a sect		N1/A
	UV light conditioning test		N/A
C.2.1	Test apparatus:		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINI	NG AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	signals	N/A
	Maximum non-clipped output power (W):		_
	Rated load impedance (Ω):		_
	Open-circuit output voltage (V)		_
	Instructional safeguard:	See Clause F.5	_
E.2	Audio amplifier normal operating conditions		
	Audio signal source type:		_
	Audio output power (W):		_
	Audio output voltage (V):		_
	Rated load impedance (Ω):		_
	Requirements for temperature measurement	(See Table B.1.5)	N/A
E.3	Audio amplifier abnormal operating conditions	(See Table B.3, B.4)	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General		Р
	Language:	English	_
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units comply with IEC 60227-1	Р
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphic symbols are complied with IEC 60417, ISO 3864-2, ISO 7000	Р

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·		IEC 62368-1		
Clause	Requirement-Test	Res	sult-Remark	Verdict

		or ISO 7010	
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	Equipment marking is located on the enclosure surface and is easily visible.	Р
F.3.2	Equipment identification markings	See the following details.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р
F.3.2.2	Model identification:	See copy of marking plate	Р
F.3.3	Equipment rating markings	See the following details.	Р
F.3.3.1	Equipment with direct connection to mains	Class III equipment	N/A
F.3.3.2	Equipment without direct connection to mains	Power rating mark not required, however see actual markings for reference.	Р
F.3.3.3	Nature of the supply voltage:	See copy of marking plate	Р
F.3.3.4	Rated voltage:	See copy of marking plate	Р
F.3.3.5	Rated frequency:	DC supply	N/A
F.3.3.6	Rated current or rated power:	See copy of marking plate	Р
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices		N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings		N/A
F.3.5.2	Switch position identification marking		N/A
F.3.5.3	Replacement fuse identification and rating markings		N/A
	Instructional safeguards for neutral fuse		N/A
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Neutral conductor terminal		N/A
F.3.5.6	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I equipment	Class III equipment	N/A



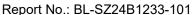


	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
F.3.6.1.1	Protective earthing conductor terminal:		N/A
F.3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking:		N/A
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking:		N/A
F.3.8	External power supply output marking:		N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit.  After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge.  After each test, the marking remained legible.	P
F.4	Instructions		
	a) Information prior to installation and initial use	Provided in user manual.	Р
	b) Equipment for use in locations where children not likely to be present		N/A
	c) Instructions for installation and interconnection	Instruction in user manual.	Р
	d) Equipment intended for use only in restricted access area	Not used in restricted access area.	N/A
	e) Equipment intended to be fastened in place	Instruction in user manual.	Р
	f) Instructions for audio equipment terminals		N/A
	g) Protective earthing used as a safeguard	Class III equipment.	N/A
_	h) Protective conductor current exceeding ES2 limits	Class III equipment.	N/A
	i) Graphic symbols used on equipment		N/A

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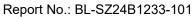


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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
	j) Permanently connected equipment not provided with all-pole mains switch		N/A
	k) Replaceable components or modules providing safeguard function		N/A
	Equipment containing insulating liquid		N/A
	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards		N/A
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General	No switch	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance		N/A
G.2	Relays		N/A
G.2.1	Requirements		N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs		N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Test method and compliance		N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		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		N/A

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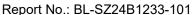
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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions:	(See appended table B.4)	N/A
G.4	Connectors		N/A
G.4.1	Spacings	Not directly connected to mains	N/A
G.4.2	Mains connector configuration:		N/A
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely		N/A
G.5	Wound components		N/A
G.5.1	Wire insulation in wound components	No wound components	N/A
G.5.1.2	Protection against mechanical stress		N/A
G.5.2	Endurance test		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Test time (days per cycle)		_
	Test temperature (°C)		_
G.5.2.3	Wound components supplied from the mains		N/A
G.5.2.4	No insulation breakdown		N/A
G.5.3	Transformers	No transformers	N/A
G.5.3.1	Compliance method:		N/A
	Position:		N/A
	Method of protection:		N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:		
G.5.3.3	Transformer overload tests		N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding temperatures		N/A

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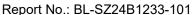


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Clause	Requirement-Test	Result-Remark	Verdict	
_			I	
G.5.3.3.3	Winding temperatures - alternative test method		N/A	
G.5.3.4	Transformers using FIW		N/A	
G.5.3.4.1	General		N/A	
	FIW wire nominal diameter:		_	
G.5.3.4.2	Transformers with basic insulation only		N/A	
G.5.3.4.3	Transformers with double insulation or reinforced insulation:		N/A	
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core		N/A	
G.5.3.4.5	Thermal cycling test and compliance		N/A	
G.5.3.4.6	Partial discharge test		N/A	
G.5.3.4.7	Routine test		N/A	
G.5.4	Motors	No motor	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		N/A	
G.5.4.5.2	Tested in the unit		N/A	
G.5.4.5.3	Alternative method		N/A	
G.5.4.6	Locked-rotor overload test for DC motors		N/A	
G.5.4.6.2	Tested in the unit		N/A	
	Maximum Temperature:		N/A	
G.5.4.6.3	Alternative method		N/A	
G.5.4.7	Motors with capacitors		N/A	
G.5.4.8	Three-phase motors		N/A	
G.5.4.9	Series motors		N/A	
	Operating voltage:		_	
G.6	Wire Insulation		N/A	

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Clause	Requirement-Test	Result-Remark	Verdict	
G.6.1	General	No wire Insulation	N/A	
G.6.2	Enamelled winding wire insulation		N/A	
G.7	Mains supply cords		N/A	
G.7.1	General requirements	No mains cord provided.	N/A	
	Туре:		_	
G.7.2	Cross sectional area (mm² or AWG):		N/A	
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords		N/A	
G.7.3.2	Cord strain relief		N/A	
G.7.3.2.1	Requirements		N/A	
	Strain relief test force (N):		N/A	
G.7.3.2.2	Strain relief mechanism failure		N/A	
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A	
G.7.3.2.4	Strain relief and cord anchorage material		N/A	
G.7.4	Cord Entry		N/A	
G.7.5	Non-detachable cord bend protection		N/A	
G.7.5.1	Requirements		N/A	
G.7.5.2	Test method and compliance		N/A	
	Overall diameter or minor overall dimension, <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		N/A	
G.7.6.2.2	Test with 8 mm strand		N/A	
G.8	Varistors		N/A	
G.8.1	General requirements		N/A	
G.8.2	Safeguards against fire		N/A	
G.8.2.1	General		N/A	

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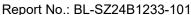


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Clause	Requirement-Test	Result-Remark	Verdict
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test		N/A
G.9	Integrated circuit (IC) current limiters		N/A
G.9.1	Requirements	No IC current limiter provided within the equipment.	N/A
	IC limiter output current (max. 5A)		_
	Manufacturers' defined drift:		_
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
G.10	Resistors		N/A
G.10.1	General	No such resistors	N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test		N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements	No such capacitor and RC units	N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers		N/A
	Optocouplers comply with IEC 60747-5-5 with specifics	No such optocouplers	N/A
	Type test voltage V <sub>ini,a</sub> :		_
	Routine test voltage, V <sub>ini, b</sub> :		_
G.13	Printed boards		Р
G.13.1	General requirements	See the following details.	Р
G.13.2	Uncoated printed boards	Only need to comply with functional insulation, see annex B.4.4	Р
G.13.3	Coated printed boards		N/A

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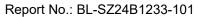
•	No.: BL-SZ24B1233-101 IEC 62368-1		-
Clause	Requirement-Test	Result-Remark	Verdict
G.13.4	Insulation between conductors on the same inner surface		N/A
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs):		_
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements:	No coating on component terminals considered to affect creepage or clearances.	N/A
G.15	Pressurized liquid filled components		N/A
G.15.1	Requirements	No such device provided within the equipment.	N/A
G.15.2	Test methods and compliance		N/A
G.15.2.1	Hydrostatic pressure test		N/A
G.15.2.2	Creep resistance test		N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test		N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)		N/A
G.16.1	Condition for fault tested is not required		N/A
	ICX with associated circuitry tested in equipment		N/A
	ICX tested separately		N/A
G.16.2	Tests		N/A
	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:		_
	Mains voltage that impulses to be superimposed on		_

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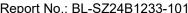
	IEC 62368-1	-
Clause	Requirement-Test Result-Remark	Verdict
	······································	
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:	_
G.16.3	Capacitor discharge test:	NI/A
	<u>'</u>	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	N/A
H.1	General	N/A
H.2	Method A	N/A
H.3	Method B	N/A
H.3.1	Ringing signal	N/A
H.3.1.1	Frequency (Hz):	_
H.3.1.2	Voltage (V):	_
H.3.1.3	Cadence; time (s) and voltage (V):	_
H.3.1.4	Single fault current (mA)::	_
H.3.2	Tripping device and monitoring voltage	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	N/A
H.3.2.2	Tripping device	N/A
H.3.2.3	Monitoring voltage (V):	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION	N/A
J.1	General	N/A
	Winding wire insulation:	_
	Solid round winding wire, diameter (mm):	N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	N/A
J.2/J.3	Tests and Manufacturing (See separate test report)	_
K	SAFETY INTERLOCKS	N/A
K.1	General requirements	N/A
	Instructional safeguard:	N/A
K.2	Components of safety interlock safeguard mechanism	N/A
K.3	Inadvertent change of operating mode	N/A

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L.3

L.4

L.5

L.6

L.7

**L.8** 

М

**M.1** 

**M.2** 

Parts that remain energized

Single-phase equipment

Three-phase equipment

**Multiple power sources** 

**General requirements** 

Switches as disconnect devices

Safety of batteries and their cells

Instructional safeguard.....:

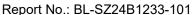
Plugs as disconnect devices



N/A

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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
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		
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	(See appended table 5.4.9)	N/A
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A

**EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS** 





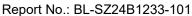
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	IEC 62368-1	T	T
Clause	Requirement-Test	Result-Remark	Verdict
M.2.1	Batteries and their cells comply with relevant IEC standards:		N/A
M.3	Protection circuits for batteries provided within the equipment		N/A
M.3.1	Requirements		N/A
M.3.2	Test method		N/A
	Overcharging of a rechargeable battery		N/A
	Excessive discharging		N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance		N/A
M.4	Additional safeguards for equipment containing battery	a portable secondary lithium	N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Requirements		N/A
M.4.2.2	Compliance:		N/A
M.4.3	Fire enclosure:		N/A
M.4.4	Drop test of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		N/A
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test		N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short-circuit during carrying	,	N/A
M.5.1	Requirement		N/A
M.5.2	Test method and compliance		N/A
M.6	Safeguards against short-circuits		N/A

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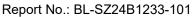
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	IEC 62368-1	1
Clause	Requirement-Test Result-Rer	mark Verdict
M.6.1	External and internal faults	N/A
M.6.2	Compliance	N/A
M.7	Risk of explosion from lead acid and NiCd batteries	N/A
M.7.1	Ventilation preventing explosive gas concentration	N/A
	Calculated hydrogen generation rate:	N/A
M.7.2	Test method and compliance	N/A
	Minimum air flow rate, Q (m³/h):	N/A
M.7.3	Ventilation tests	N/A
M.7.3.1	General	N/A
M.7.3.2	Ventilation test – alternative 1	N/A
	Hydrogen gas concentration (%):	N/A
M.7.3.3	Ventilation test – alternative 2	N/A
	Obtained hydrogen generation rate:	N/A
M.7.3.4	Ventilation test – alternative 3	N/A
	Hydrogen gas concentration (%):	N/A
M.7.4	Marking:	N/A
M.8	Protection against internal ignition from external spark sou aqueous electrolyte	rces of batteries with 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 $V_Z$ (m³/s):	_
M.8.2.3	Correction factors:	_
M.8.2.4	Calculation of distance d (mm):	_
M.9	Preventing electrolyte spillage	N/A
M.9.1	Protection from electrolyte spillage	N/A
M.9.2	Tray for preventing electrolyte spillage	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	N/A
	Instructional safeguard:	N/A

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IEC 62368-1

Clause Requirement-Test Result-Remark Verdict

N	ELECTROCHEMICAL POTENTIALS		N/A
	Material(s) used:		_
0	MEASUREMENT OF CREEPAGE DISTANCES AN	ID CLEARANCES	N/A
	Value of X (mm):		_
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	·s	N/A
P.1	General	No openings of enclosure.	N/A
P.2	Safeguards against entry or consequences of en	ntry of a foreign object	N/A
P.2.1	General		N/A
P.2.2	Safeguards against entry of a foreign object		N/A
	Location and Dimensions (mm)		_
P.2.3	Safeguards against the consequences of entry of a foreign object		N/A
P.2.3.1	Safeguard requirements		N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment		N/A
	Transportable equipment with metalized plastic parts		N/A
P.2.3.2	Consequence of entry test:		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General	No such equipment	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 part	rs .	N/A
P.4.1	General		N/A
P.4.2	Tests		N/A
	Conditioning, T <sub>C</sub> (°C)		_
	Duration (weeks)		_
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources		N/A





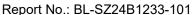
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Clause	Requirement-Test Result	t-Remark Verdict
Q.1.1	Deguiremente	NI/A
Q.I.I	Requirements	N/A
	a) Inherently limited output	N/A
	b) Impedance limited output	N/A
	, , , ,	ppended table Q.1) N/A
	d) Overcurrent protective device limited output	N/A
	e) IC current limiter complying with G.9	N/A
Q.1.2	Test method and compliance (See a	ppended table Q.1) N/A
	Current rating of overcurrent protective device (A)	N/A
Q.2	Test for external circuits – paired conductor Not co	nnect to external circuits 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 ma	iterials of equipment where N/A
	Samples, material:	_
	Wall thickness (mm)	_
	Conditioning (°C)	_
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	- Material not consumed completely	N/A
	- Material extinguishes within 30s	N/A
	- No burning of layer or wrapping tissue	N/A

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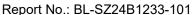
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	IEC 62368-1			
Clause	Requirement-Test	Result-Remark	Verdict	
	<u> </u>	·	•	

S.2	Flammability test for fire enclosure and fire barri	ier integrity	N/A
	Samples, material:		
	Wall thickness (mm):		_
	Conditioning (°C):		_
S.3	Flammability test for the bottom of a fire enclosu	ıre	N/A
S.3.1	Mounting of samples		N/A
S.3.2	Test method and compliance		N/A
	Mounting of samples:		_
	Wall thickness (mm):		_
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C):		_
Т	MECHANICAL STRENGTH TESTS		Р
T.1	General		Р
T.2	Steady force test, 10 N:		N/A
T.3	Steady force test, 30 N:		N/A
T.4	Steady force test, 100 N:		N/A
T.5	Steady force test, 250 N:	(See appended table T.5)	Р
T.6	Enclosure impact test	(See appended table T.6)	Р
	Fall test		Р
	Swing test		Р
T.7	Drop test:		N/A
T.8	Stress relief test:	(See appended table T.8)	Р
T.9	Glass Impact Test:		N/A
T.10	Glass fragmentation test		N/A
	Number of particles counted:		N/A

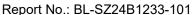




·	IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict		

Test for telescoping or rod antennas	N/A
Torque value (Nm):	N/A
MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION	N/A
General	N/A
Instructional safeguard :	N/A
Test method and compliance for non-intrinsically protected CRTs	N/A
Protective screen	N/A
DETERMINATION OF ACCESSIBLE PARTS	Р
Accessible parts of equipment	Р
General	Р
Surfaces and openings tested with jointed test probes	Р
Openings tested with straight unjointed test probes	N/A
Plugs, jacks, connectors tested with blunt probe	N/A
Slot openings tested with wedge probe	N/A
Terminals tested with rigid test wire	N/A
Accessible part criterion	N/A
ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)	N/A
Clearance: (See appended table X)	N/A
CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES	N/A
General	N/A
Resistance to UV radiation	N/A
Resistance to corrosion	N/A
Resistance to corrosion	N/A
Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	N/A
Test apparatus	N/A
Water – saturated sulphur dioxide atmosphere	N/A
	Torque value (Nm)

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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
Y.3.4	Test procedure:		N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets		N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests		N/A
	Alternative test methods:		N/A
Y.4.4	Compression test		N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means	(See Annex P.4)	N/A
Y.5	Protection of equipment within an outdoor enclos	sure	N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3		N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A
Y.6.2	Impact test:	(See Table T.6)	N/A

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IEC 62368-1			_
Clause	Requirement-Test	Result-Remark	Verdict

## ATTACHMENT TO TEST REPORT

## IEC 62368-1

## **EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES**

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

Differences according to	EN IEC 62368-1:2020+A11:2020
Attachment Form No:	EU_GD_IEC62368_1E
Attachment Originator:	UL(Demko)
Master Attachment:	2021-02-04

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

3.3.19.1	momentary exposure level, MEL	N/A
	metric for estimating 1 s sound exposure level from	
	the HD 483-1 S2 test signal applied to both	
	channels, based on EN 50332-1:2013, 4.2.	
	Note 1 to entry: MEL is measured as A-weighted levels in dB.	
	Note 2 to entry: See B.3 of EN 50332-3:2017 for additional	

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IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict	
	information.			
3.3.19.3	sound exposure, <i>E</i>		N/A	
	A-weighted sound pressure (p) squared and			
	integrated over a stated period of time, T			
	integrated over a stated period of time, 7			
	Note 1 to entry: The SI unit is Pa <sup>2</sup> s.			
	T			
	$E = \int p(t)^2  \mathrm{d}t$			
	$E = \int p(t) dt$			
	0			
3.3.19.4	sound exposure level, SEL		N/A	
	logarithmic measure of sound exposure relative to			
	a reference value, E₀, typically the 1 kHz			
	threshold of hearing in humans.			
	Note 1 to entry: SEL is measured as A-weighted levels in dB.			
	,			
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$			
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional			
	information.			
3.3.19.5	digital signal level relative to full scale, dBFS		N/A	
	levels reported in dBFS are always r.m.s. Full scale			
	level, 0 dBFS, is the level of a dc-free 997-			
	Hz sine wave whose undithered positive peak value			
	is positive digital full scale, leaving the code			
	corresponding to negative digital full scale unused			
	corresponding to negative digital fall scale diffused			
	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels.			
	Because the definition of full scale is based on a sine wave, the			
	· 1			

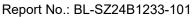
reach +3,01 dBFS.

**Modification to Clause 10** 

may exceed 0 dBFS. In particular, square wave signals may

N/A

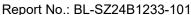
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	IEC 62368-1		•
Clause	T	Decult Demark	\/ordigt
Clause	Requirement-Test	Result-Remark	Verdict
10.6	Safeguards against acoustic energy sources		N/A
	Replace 10.6 of IEC 62368-1 with the following:		
10.6.1.1	Introduction		N/A
	Safeguard requirements for protection against		
	long-term exposure to excessive sound pressure		
	levels from personal music players closely coupled		
	to the ear are specified below. Requirements		
	for earphones and headphones intended for use		
	with personal music players are also covered.		
	A personal music player is a portable equipment		
	intended for use by an <b>ordinary person</b> , that:		
	is designed to allow the year to listers to as I'		
	- is designed to allow the user to listen to audio or		
	audiovisual content / material; and		
	- uses a listening device, such as headphones or		
	earphones that can be worn in or on or		
	around the ears; and		
	<ul> <li>has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and</li> </ul>		
	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.).		
	an a subway, at an anport, ctc.).		
	EXAMPLES Portable CD players, MP3 audio players, mobile		
	phones with MP3 type features, PDAs or similar equipment.		
	Personal music players shall comply with the		
	requirements of either 10.6.2 or 10.6.3.		
	NOTE 1 Protection against acoustic energy sources from		
	telecom applications is referenced to ITU-T P.360.		
	NOTE 2 It is the intention of the Committee to allow the		
	alternative methods for now, but to only use the dose		
	measurement method as given in 10.6.5 in future. Therefore,		
	manufacturers are encouraged to implement 10.6.5 as soon as		
	possible.		
	Listening devices sold separately shall comply with		
	the requirements of 10.6.6.		

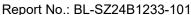
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. 10,001	Report No.: BL-SZ24B1233-101  IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
	1.044	1.100011.101110111	1
	These requirements are valid for music or video		
	mode only.		
	The requirements do not apply to:		
	- professional equipment;		
	NOTE 3 Professional equipment is equipment sold through		
	special sales channels. All products sold through		
	normal electronics stores are considered not to be professional		
	equipment.		
	- hearing aid equipment and other devices for		
	assistive listening;		
	- the following type of analogue personal music		
	players:		
	• long distance radio receiver (for example, a		
	multiband radio receiver or world band radio		
	receiver, an AM radio receiver), and		
	cassette player/recorder;		
	NOTE 4 This exemption has been allowed because this		
	technology is falling out of use and it is expected that		
	within a few years it will no longer exist. This exemption will not		
	be extended to other technologies.		
	- a player while connected to an external amplifier		
	that does not allow the user to walk around		
	while in use.		
	For equipment that is clearly designed or intended		
	primarily for use by children, the limits of the		
	relevant toy standards may apply.		
	The relevant requirements are given in		
	EN 71-1:2011, 4.20 and the related tests methods		
	and measurement distances apply.		
10.6.1.2	Non-ionizing radiation from radio frequencies in		N/A
	the range 0 to 300 GHz		
	The amount of non-ionizing radiation is regulated		
	by European Council Recommendation		
	1999/519/EC of 12 July 1999 on the limitation of		
	exposure of the general public to electromagnetic		

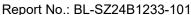
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Clause	Requirement-Test	Result-Remark	Verdict
Clause	requirement-rest	Tesuit-Itemark	Verdict
	fields (0 Hz to 300 GHz).		
	For intentional radiators, ICNIRP guidelines should		
	be taken into account for Limiting Exposure to		
	Time-Varying Electric, Magnetic, and		
	Electromagnetic Fields (up to 300 GHz). For		
	hand-held and body mounted devices, attention is		
	drawn to EN 50360 and EN 50566.		
10.6.2		actimate cound door	NI/A
10.0.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2.1	General		N/A
	This standard is transitioning from short-term based		
	(30 s) requirements to long-term based (40 hour)		
	requirements. These clauses remain in effect only		
	for devices that do not comply with sound dose		
	estimation as stipulated in EN 50332-3.		
	'		
	For classifying the acoustic output $L_{ ext{Aeq}}, au$ ,		
	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 $L_{Aeq,7}$ ) 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.		
	NOTE Classical music, acoustic music and broadcast typically		
	has an average sound pressure (long term $L_{Aeq,7}$ ) which is much		
	lower than the average programme simulation noise. Therefore,		
	if the player is capable to analyse the content and compare it		
	with the programme simulation noise, the warning does not need		
	to be given as long as the average sound pressure of the song		
	does not exceed the required limit.		
	For example, if the player is set with the 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		
	acknowledgement as long as the average sound level of the		
	song is not above the basic limit of 85 dB.		
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)		N/A

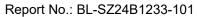
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Clause	Requirement-Test  RS1 is a class 1 acoustic energy source that does not exceed the following:	Result-Remark	Verdict
Jiduse	RS1 is a class 1 acoustic energy source that does	NOOUN-INCHIGHT	Verdict
	J 3		
	- for equipment provided as a package (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 $L_{Aeq,\tau}$ acoustic		
	output shall be ≤ 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.		
40.000	RS2 limits (to be superseded, see 10.6.3.3)		N1/A
10.6.2.3	Noz minto (to be superseded, see 10.0.0.0)		N/A
	RS2 is a class 2 acoustic energy source that does		
	not exceed the following:		
	for equipment provided as a package (player with		
	its listening device), and with a proprietary		
	connector between the player and its listening		
	device, or when the combination of player and		
	listening device is known by other means such as		
	setting or automatic 130 detection, the $L_{Aeq,T}$		
	acoustic output shall be ≤ 100 dB(A) when playing		
	the fixed "programme simulation noise" as		
	described in EN 50332-1.		
	<ul><li>for equipment provided with a standardized</li></ul>		
	connector (for example, a 3,5 phone jack) that		
	allows connection to a listening device for general		
	use, the unweighted r.m.s. output voltage shall be ≤		
	150 mV (analogue interface) or -10 dBFS (digital		
	interface) when playing the fixed "programme		
	simulation noise" as described in EN 50332-1.		
10.6.2.4	RS3 limits		N/A

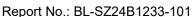
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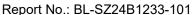
	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
		I	
	RS3 is a class 3 acoustic energy source that		
	exceeds RS2 limits.		
40.00			N1/A
10.6.3	Classification of devices (new)		N/A
10.6.3.1	General		N/A
	Previous limits (10.6.2) created abundant false		
	negative and false positive PMP sound level		
	warnings. New limits, compliant with The		
	Commission Decision of 23 June 2009, are given		
	below.		
10.6.3.2	RS1 limits (new)		N/A
	RS1 is a class 1 acoustic energy source that does		
	not exceed the following:		
	<ul> <li>for equipment provided as a package (player</li> </ul>		
	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 $L$ Aeq, $ au$ acoustic		
	output shall be ≤ 80 dB when playing the fixed		
	"programme simulation noise" described in EN 50332-1.		
	<ul><li>for equipment provided with a standardized</li></ul>		
	connector (for example, a 3,5 phone jack) that		
	allows connection to a listening device for general		
	use, the unweighted r.m.s. output voltage shall be ≤		
	15 mV (analogue interface) or -30 dBFS (digital		
	interface) when playing the fixed "programme		
	simulation noise" described in EN 50332-1.		
10.6.3.3	RS2 limits (new)		N/A
10.0.0.0	rez illine (non)		IN/A
	RS2 is a class 2 acoustic energy source that does		
	not exceed the following:		
	<ul> <li>for equipment provided as a package (player with</li> </ul>		
	its listening device), and with a proprietary		
	connector between the player and its listening		
	device, or where the combination of player and		
	listening device is known by other means such as		
	setting or automatic detection, the weekly sound		
<u> </u>	Soluting of automatic detection, the weekly sound		





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IEC 62368-1					
Clause	Requirement-Test	Result-Remark	Verdict		
	exposure level, as described in EN 50332-3, shall				
	be ≤ 80 dB when playing the fixed "programme				
	simulation noise" described in EN 50332-1.				
	<ul> <li>for equipment provided with a standardized</li> </ul>				
	connector (for example, a 3,5 phone jack) that				
	allows connection to a listening device for general				
	use, the unweighted r.m.s. output level, integrated				
	over one week, as described in EN50332-3, shall				
	be ≤ 15 mV (analogue interface) or -30 dBFS				
	(digital interface) when playing the fixed				
	"programme simulation noise" described in EN				
	50332-1.				
10.6.4	Requirements for maximum sound exposure		N/A		
10.6.4.1	Measurement methods		N/A		
			14/7		
	All volume controls shall be turned to maximum				
	during tests.				
	Measurements shall be made in accordance with				
	EN 50332-1 or EN 50332-2 as applicable.				
10.6.4.2	Protection of persons		N/A		
	Except as given below, protection requirements for				
	parts accessible to ordinary persons, instructed				
	persons and skilled persons are given in 4.3.				
	NOTE 1 Volume control is not considered a safeguard.				
	Between RS2 and an ordinary person, the basic				
	safeguard may be replaced by an instructional				
	safeguard in accordance with Clause F.5, except				
	that the instructional safeguard shall be placed				
	on the equipment, or on the packaging, or in the				
	instruction manual.				
	Alternatively, the instructional safeguard may be				
	given through the equipment display during use.				
	The elements of the instructional safeguard shall				
	be as follows:				
	- element 1a: the symbol / IEC 60417-6044				

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	IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict		
0.0.00	rioquironioni root	1.100411.1101114	1		
	(2011-01)				
	- element 2: "High sound pressure" or equivalent				
	wording				
	<ul> <li>element 3: "Hearing damage risk" or equivalent</li> </ul>				
	wording				
	- element 4: "Do not listen at high volume levels for				
	long periods." or equivalent wording				
	An <b>equipment safeguard</b> shall prevent exposure				
	of an ordinary person to an RS2 source without				
	intentional physical action from the <b>ordinary</b>				
	<b>person</b> and shall automatically return to an output				
	level not exceeding what is specified for an RS1				
	source when the power is switched off.				
	·				
	The equipment shall provide a means to actively				
	inform the user of the increased sound level when				
	the equipment is operated with an output exceeding				
	RS1. Any means used shall be acknowledged by				
	the user before activating a mode of operation				
	which allows for an output exceeding RS1. The				
	acknowledgement does not need to be repeated				
	more than once every 20 h of cumulative listening				
	time.				
	NOTE 2 Examples of means include visual or audible signals.				
	Action from the user is always needed.				
	NOTE 3 The 20 h listening time is the accumulative listening				
	time, independent of how often and how long the personal music				
	player has been switched off.				
	. 1				
	A <b>skilled person</b> shall not be unintentionally				
	exposed to RS3.				
10.6.5	Requirements for dose-based systems		N/A		
10.6.5.1	General requirements		N/A		
			13// 1		
	Personal music players shall give the warnings as				
	provided below when tested according to EN				
	50332-3, using the limits from this clause.				
	, , , , , , , , , , , , , , , , , , , ,				

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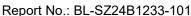




Report No	o.: BL-SZ24B1233-101 IEC 62368-1		ii oap
Clause	Requirement-Test	Result-Remark	Verdict
	'		
	The manufacturer may offer optional settings to		
	allow the users to modify when and how they wish		
	to receive the notifications and warnings to promote		
	a better user experience without defeating 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.		
	The personal music player shall be supplied with		
	easy to understand explanation to the user of the		
	dose management system, the risks involved, and		
	how to use the system safely. The user shall be		
	made aware that other sources may significantly		
	contribute to their sound exposure, for example		
	work, transportation, concerts, clubs, cinema, car		
	races, etc.		
10.6.5.2	Dose-based warning and requirements		N/A
	When a dose of 100 % <i>CSD</i> is reached, and at		
	least at every 100 % further increase of CSD, the		
	device shall warn the user and require an		
	acknowledgement. In case the user does not		
	acknowledge, the output level shall automatically		
	decrease to compliance with class RS1.		
	The warning shall at least eleastly indicate that		
	The warning shall at least clearly indicate that		
	listening above 100 % CSD leads to the risk of		
10.6.5.3	hearing damage or loss.  Exposure-based requirements		N1/A
10.0.3.3	Exposure-vaseu requirements		N/A
	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		

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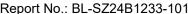
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Report	Report No.: BL-SZ24B1233-101  IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict		
		<u> </u>			
	reduce the sound level not to exceed 100 dB(A) or				
	150 mV integrated over the past 180 s, based on				
	methodology defined in EN 50332-3.				
	The EL settling time (time from starting level				
	reduction to reaching target output) shall be 10 s or				
	faster.				
	Test of EL functionality is conducted according to				
	EN 50332-3, using the limits from this clause. For				
	equipment provided as a package (player with its				
	listening device), the level integrated over 180 s				
	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.				
	NOTE In case the source is known not to be music (or test				
	signal), the EL may be disabled.				
10.6.6	Requirements for listening devices (headphones	s, earphones, etc.)	N/A		
10.6.6.1	Corded listening devices with analogue input		N/A		
	With 94 dB LAeq acoustic pressure output of the				
	listening device, and with the volume and sound				
	settings in the listening device (for example, built-in				
	volume level control, additional sound features like				
	equalization, etc.) set to the combination of				
	positions that maximize the measured acoustic				
	output, the input voltage of the listening device				
	when playing the fixed "programme simulation				
	noise" as described in EN 50332-1 shall be ≥ 75				
	mV.				
	NOTE The values of 94 dB and 75 mV correspond with 85 dB				
	and 27 mV or 100 dB and 150 mV.				
10.6.6.2	and 27 mV or 100 dB and 150 mV.  Corded listening devices with digital input		N/A		
10.6.6.2	Corded listening devices with digital input		N/A		
10.6.6.2	Corded listening devices with digital input  With any playing device playing the fixed		N/A		
10.6.6.2	Corded listening devices with digital input		N/A		





rtoporti	No.: BL-SZ24B1233-101 IEC 62368-1	Стегец
Clause	Requirement-Test Result-Rem	nark Verdict
	level control, additional sound features like	
	equalization, etc.) set to the combination of	
	positions that maximize the measured acoustic	
	output, the LAeq, τ acoustic output of the listening	
	device shall be ≤ 100 dB with an input signal of -10	
	dBFS.	
0.6.6.3	Cordless listening devices	N/A
	In cordless mode,	
	– with any playing and transmitting device playing	
	the fixed programme simulation noise described in	
	EN 50332-1; and	
	- respecting the cordless transmission standards,	
	where an air interface standard exists that specifies	
	the equivalent acoustic level; and	
	– with volume and sound settings in the receiving	
	device (for example, built-in volume level control,	
	additional sound features like equalization, etc.) set	
	to the combination of positions that maximize the	
	measured acoustic output for the above mentioned	
	programme simulation noise, the $L_{Aeq}$ , $\tau$ acoustic	
	output of the listening device shall be ≤ 100 dB with	
	an input signal of -10 dBFS.	
0.6.6.4	Measurement method	N/A
	Measurements shall be made in accordance with	
	EN 50332-2 as applicable.	
3	Modification to the whole document	Р
	Delete all the "country" notes in the reference document according	ng to the following list: P





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			IEC	62368-1			
Clause	Requirement-	-Test		Re	sult-Remark		Verdict
	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	
	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	
	5.4.2.3.2 Table 13		5.4.2.5	Note 2	5.4.5.1	Note	
	5.4.10.2	.1 Note	5.4.10.2.2	Note	5.4.10.2.3	Note	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	
	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	
	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
	Y.4.5	Note					
ļ	Modification	to Clause 1					Р
	Add the follow	•					Р
		use of certain sub ment is restricted wi					
	2011/65/EU.			2			
1	Modification	to 4.Z1					N/A
.Z1	Add the follow	wing new subcla	use after 4.9	9:			N/A
	To protect ag	ainst excessive	current, sho	rt-circuits			
	and earth fa	ults in circuits o	onnected to	o an a.c.			
	' '	ctive devices sha					
		rts of the equipm					
	building insta	llation, subject to	the followi	ng, a), b)			

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and c):

devices

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comply

a) except as detailed in b) and c), protective

requirements of B.3.1 and B.4 shall be included as

b) for components in series with the mains input to the equipment such as the supply cord, appliance

necessary to

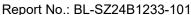
parts of the equipment;

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Add: Block B,1st FL, Baisha Science & Technology Park, No.3011, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, China

with



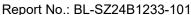


Report No.: BL-SZ24B1233-101  IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict	
Olduso	requirement rest	Troduct Romans	Volunt	
	coupler, r.f.i. filter and switch, short-circuit and			
	earth fault protection may be provided by			
	protective devices in the building installation;			
	c) it is permitted for pluggable equipment type B			
	or permanently connected equipment, to rely on			
	dedicated overcurrent and short-circuit protection			
	in the building installation, provided that the means			
	of protection, e.g. fuses or circuit breakers, is fully			
	specified in the installation instructions.			
	If religned is placed on protection in the building			
	If reliance is placed on protection in the building installation, the installation instructions shall so			
	state, except that for pluggable equipment type			
	A the building installation shall be regarded as			
	providing protection in accordance with the rating			
	of the wall socket outlet.			
6	Modification to 5.4.2.3.2.4		N/A	
5.4.2.3.2.4	Add the following to the end of this subclause:		N/A	
			14/7	
	The requirement for interconnection with <b>external</b>			
	circuit is in addition given in EN 50491-3:2009.			
7	Modification to 10.2.1		N/A	
10.2.1	Add the following to c) and d) in table 39:		N/A	
			1,07.	
	For additional requirements, see 10.5.1.			
8	Modification to 10.5.1		N/A	
10.5.1	Add the following after the first paragraph:		N/A	
	For RS 1 compliance is checked by measurement			
	under the following conditions:			
	In addition to the normal operating conditions, all			
	controls adjustable from the outside by hand, by			
	any object such as a tool or a coin, and those			
	internal adjustments or pre-sets which are not			
	locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an			
	intelligible picture for 1 h, at the end of which the measurement is made.			
	measurement is made.			

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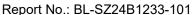
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IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict	
		I		
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.			
	adequate locking.			
	The dose-rate is determined by means of a			
	radiation monitor with an effective area of 10 cm <sup>2</sup> , at			
	any point 10 cm from the outer surface of the			
	apparatus.			
	Moreover, the measurement shall be made under			
	fault conditions causing an increase of the high			
	voltage, provided an intelligible picture is			
	maintained for 1 h, at the end of which the			
	measurement is made.			
	For RS1, the dose-rate shall not exceed 1 µSv/h			
	taking account of the background level.			
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13			
9	May 1996.			
	Modification to G.7.1		N/A	
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.			

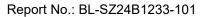
10	Modification to Bibliography	Р
	Add the following notes for the standards indicated:	Р





Report No.: BL-SZ24B1233-101  IEC 62368-1				
Clause	Requirement-Test	2 3_333 1	Result-Remark	Verdict
Clause	IEC 60130-9 NC IEC 60269-2 NC IEC 60309-1 NC IEC 60364 NC IEC 60601-2-4 NC IEC 60664-5 NC IEC 61508-1 NC IEC 61558-2-1 NC IEC 61558-2-4 NC IEC 61558-2-6 NC IEC 61643-1 NC IEC 61643-21 NC	OTE Harmonized as EN 601 OTE Harmonized as HD 602 OTE Harmonized as EN 603 OTE some parts harmonized OTE Harmonized as EN 608 OTE Harmonized as EN 618	Result-Remark  130-9. 269-2. 309-1. d in HD 384/HD 60364 series. 601-2-4. 664-5. 032:1998 (not modified). 658-2-1. 658-2-4. 658-2-6. 643-1.	Verdict
44	IEC 61643-321 NC IEC 61643-331 NC	OTE Harmonized as EN 616 OTE Harmonized as EN 616 OTE Harmonized as EN 616	343-321.	
11 ZB	ADDITION OF ANNEXE		/ENIX	P
4.1.15	Denmark, Finland, Nor	MAY and Sweden	(EN)	N/A
	added: Class I pluggable equifor connection to other enetwork shall, if safety reliable earthing or if surface connected between and accessible parts, that the equipment shall earthed mains socket-out.  The marking text in the abe as follows:  In Denmark: "Apparated en stikkontakt med jord stikproppens jord."  In Finland: "Laite on liit varustettuun pistorasiaar In Norway: "Apparated stikkontakt"	relies on connection to ge suppressors  the network terminals have a marking stating all be connected to an utlet.  Applicable countries shall ts stikprop skal tilsluttes som giver forbindelse til ettävä suojakoskettimilla		

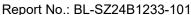
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IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict	
4.7.3	United Kingdom		N/A	
	To the end of the subclause the following is			
	added:			
	The torque test is performed using a			
	socket-outlet complying with BS 1363, and the			
	plug part shall be assessed to the relevant			
	clauses of BS 1363. Also see Annex G.4.2 of this			
	annex			
5.2.2.2	Denmark		N/A	
	After the 2nd paragraph add the following:			
	After the 2nd paragraph add the following:			
	A warning (marking safeguard) for high touch			
	current is required if the touch current exceeds			
	the limits of 3,5 mA a.c. or 10 mA d.c.			
5.4.11.1	Finland and Sweden		N/A	
and				
Annex G	To the end of the subclause the following is added:			
	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			
	<ul><li>consist of either</li><li>two layers of thin sheet material, each of</li></ul>			
	which shall pass the electric strength test			
	below, or			
	one layer having a distance through			
	insulation of at least 0,4 mm, which shall pass			
	the electric strength test below.			
	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			

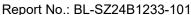
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Report N	Report No.: BL-SZ24B1233-101  IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict		
	component passes the electric strength test in				
	accordance with the compliance clause below				
	and in addition				
	• passes the tests and inspection criteria of 5.4.8				
	with an electric strength test of 1,5 kV				
	multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),				
	5.4.9 Shall be performed using 1,5 kV),				
	and				
	is subject to routine testing for electric				
	strength during manufacturing, using a test				
	voltage of 1,5 kV.				
	It is permitted to bridge this insulation with a				
	capacitor complying with EN 60384-14:2005,				
	subclass Y2.				
	A capacitor classified Y3 according to EN				
	60384-14:2005, may bridge this insulation under				
	the following conditions:				
	the insulation requirements are satisfied by				
	having a capacitor classified Y3 as defined by				
	EN 60384-14, which in addition to the Y3				
	testing, is tested with an impulse test of 2,5				
	kV defined in 5.4.11;				
	the additional testing shall be performed on				
	all the test specimens as described in EN				
	60384-14;				
	the impulse test of 2,5 kV is to be performed				
	before the endurance test in EN 60384-14, in the				
	sequence of tests as described in EN 60384-14.				
5.5.2.1	Norway		N/A		
	After the 3rd paragraph the following is added:				
	Due to the IT power system used, capacitors are				
	required to be rated for the applicable line-to-line				
	Togaliou to be fated for the applicable line-to-line				

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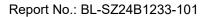




IEC 62368-1				
Clause	Requirement-Test	Re	lesult-Remark	Verdict

	voltago (230 V)	
	voltage (230 V).	
5.5.6	Finland, Norway and Sweden	N/A
	To the end of the subclause the following is	
	added:	
	Designation used as besigned experienced or bridging	
	Resistors used as <b>basic safeguard</b> or bridging	
	basic insulation in class I pluggable	
	equipment type A shall comply with G.10.1 and	
	the test of G.10.2.	
5.6.1	Denmark	N/A
	Add to the end of the subclause	
	Due to many existing installations where the	
	socket-outlets can be protected with fuses	
	with higher rating than the rating of the	
	socket-outlets the protection for pluggable	
	equipment type A shall be an integral part of the	
	equipment.	
	Justification:	
	In Denmark an existing 13 A socket outlet can be	
	protected by a 20 A fuse.	
5.6.4.2.1	Ireland and United Kingdom	N/A
	After the indent for pluggable equipment type	
	A, the following is added:	
	- the <b>protective current rating</b> is taken to be 13	
	A, this being the largest rating of fuse used in the	
	mains plug.	
5.6.4.2.1	France	N/A
	After the indent for pluggable equipment type	
	<b>A</b> , the following is added:	
	- in certain cases, the <b>protective current rating</b>	
	of the circuit supplied from the mains is taken as	
	20 A instead of 16 A.	
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	

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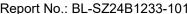
IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict	
	·	•		
	13 A is:			
	1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.			
5.6.8	Norway		N/A	
	To the end of the subclause the following is			
	added:			
	Equipment connected with an earthed mains			
	plug is classified as <b>class I equipment</b> . See the			
	Norway marking requirement in 4.1.15. The			
	symbol IEC 60417-6092, as specified in F.3.6.2,			
	is accepted.			
5.7.6	Denmark		N/A	
	To the end of the subclause the following is			
	added:			
	The installation instruction shall be affixed to the			
	equipment if the protective conductor current			
	exceeds the limits of 3,5 mA a.c. or 10 mA d.c.			
5.7.6.2	Denmark		N/A	
	To the end of the subclause the following is			
	added:			
	The warning (marking safeguard) for high touch			
	current is required if the touch current or the			
	protective current exceed the limits of 3,5 mA.			
5.7.7.1	Norway and Sweden		N/A	
5.7.7.1	normaly and emotion		IN/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.			
	It is become accounted to mark to the country of			
	It is however accepted to provide the insulation			
	external to the equipment by an adapter or an			
	interconnection cable with galvanic isolator,			
	which may be provided by a retailer, for example.			

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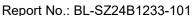
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IEC 62368-1			
Clause	Requirement-Test	Result-Remark	Verdict
	The user manual shall then have the following or		
	similar information in Norwegian and Swedish		
	language respectively, depending on in what		
	country the equipment is intended to be used in:		
	"Apparatus connected to the protective earthing		
	of the building installation through the mains		
	connection or through other apparatus with a		
	connection to protective earthing –		
	and to a television distribution system using		
	coaxial cable, may in some circumstances create		
	a fire hazard. Connection to a television		
	distribution system therefore has to be provided		
	through a device providing electrical isolation		
	below a certain frequency range (galvanic		
	isolator, see EN 60728-11)"		
	NOTE In Norway, due to regulation for CATV-installations,		
	and in Sweden, a galvanic isolator shall provide electrical		
	insulation below 5 MHz. The insulation shall withstand a		
	dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		
	Translation to Norwegian (the Swedish text will		
	also be accepted in Norway):		
	"Apparater som er koplet til beskyttelsesjord via		
	nettplugg og/eller via annet jordtilkoplet		
	utstyr – og er tilkoplet et koaksialbasert kabel-TV		
	nett, kan forårsake brannfare.		
	For å unngå dette skal det ved tilkopling av		
	apparater til kabel-TV nett installeres en		
	galvanisk isolator mellom apparatet og kabel-TV		
	nettet."		
	Translation to Swedish:		
	"Apparater som är kopplad till skyddsjord via		
	jordat vägguttag och/eller via annan utrustning		
	och samtidigt är kopplad till kabel-TV nät kan i		
	vissa fall medfőra risk főr brand. Főr att undvika		
	detta skall vid anslutning av apparaten till		
	kabel-TV nät galvanisk isolator finnas mellan		

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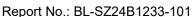




IEC 62368-1					
Clause	Requirement-Test		Result-Remark		Verdict

	apparaten och kabel-TV nätet.".	
8.5.4.2.3	United Kingdom	N/A
	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup>	
	paragraph:	
	paragrapm	
	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		IN/A
D. <del>4</del>	The following is applicable:	
	To protect against excessive currents and	
	short-circuits in the primary circuit of <b>direct</b>	
	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	
G.4.2	Denmark	N/A
	To the end of the subclause the following is	
	added:	
	Supply cords of single phase appliances having	
	a rated current not exceeding 13 A shall be	
	provided with a plug according to DS	
	60884-2-D1:2011.	
	CLASS I EQUIPMENT provided with	
	socket-outlets with earth contacts or which are	
	intended to be used in locations where protection	
	against indirect contact is required according to	
	the wiring rules shall be provided with a plug in	
	accordance with standard sheet DK 2-1a or DK	
	2-5a.	
	If a single-phase equipment having a RATED	

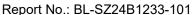
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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
			•
	CURRENT exceeding 13 A or if a polyphase		
	equipment is provided with a supply cord with a		
	plug, this plug shall be in accordance with the		
	standard sheets DK 6-1a in DS 60884-2-D1 or		
	EN 60309-2.		
	Mains socket outlets intended for providing		
	power to Class II apparatus with a rated current		
	of 2,5 A shall be in accordance DS		
	60884-2-D1:2011 standard sheet DKA 1-4a.		
	Other current rating socket outlets shall be in		
	compliance with Standard Sheet DKA 1-3a		
	or DKA 1-1c.		
	Mains socket-outlets with earth shall be in		
	compliance with DS 60884-2-D1:2011		
	Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK		
	1-5a or DK 1-7a		
	Justification:		
	Heavy Current Regulations, Section 6c		
G.4.2	United Kingdom		N/A
	To the end of the subclause the following is		
	added:		
	The plug part of direct plug-in equipment shall be		
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3,		
	12.9, 12.11, 12.12, 12.13, 12.16, and 12.17,		
	except that the test of 12.17 is performed at not		
	less than 125 °C. Where the metal earth pin is		
	replaced by an Insulated Shutter Opening Device		
	(ISOD), the requirements of clauses 22.2 and 23		
	also apply.		
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		

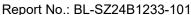
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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
			I
	socket conforming to BS 1363 by means of that		
	flexible cable or cord shall be fitted with a		
	'standard plug' in accordance with the Plugs and		
	Sockets etc. (Safety) Regulations 1994,		
	Statutory Instrument 1994 No. 1768, unless		
	exempted by those		
	regulations.		
	regulations.		
	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
J.7.1			IN/A
	To the first paragraph the following is added:		
	Apparatus which is fitted with a flexible cable or		
	cord shall be provided with a plug in accordance		
	with Statutory Instrument 525: 1997, "13 A Plugs		
	and Conversion Adapters for Domestic Use		
	Regulations: 1997. S.I. 525 provides for the		
	recognition of a standard of another Member		
	State which is equivalent to the relevant Irish		
	Standard		
G.7.2	Ireland and United Kingdom		N/A
	To the first paragraph the following is added:		
	A power supply cord with a conductor of 1,25		
	mm <sup>2</sup> is allowed for equipment which is rated over		
	10 A and up to and including 13 A.		
zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
10.5.2	Germany		N/A
	The following requirement applies:		
	For the operation of any cathode ray tube		
	intended for the display of visual images		
	operating at an acceleration voltage exceeding		
	40 kV, authorization is required, or application of		
	type		
	approval (Bauartzulassung) and marking.		

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	IEC 6236	68-1		
Clause	Requirement-Test	Result-Rer	mark	Verdict
	Justification:			
	German ministerial decree against ionizi	ing		
	radiation (Röntgenverordnung), in force since			
	2002-07-01, implementing the Europe	an		
	Directive 96/29/EURATOM.			
	NOTE Contact address:			
	Physikalisch-Technische Bundesanstalt, Bundesallee 1	00,		
	D-38116 Braunschweig,			
	Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de			
ZD	IEC and CENELEC CODE DESIGNATIONS F	OR FLEXIBLE O	CORDS (EN)	N/A
	Type of flexible cord	Code de	esignations	N/A
		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	
	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	,t.,	*	
	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H	
	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	
	Cords insulated and sheathed with halogen- free thermoplastic compounds			
	Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	
	Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	

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·		IEC 62368-1	,	
Clause	Requirement-Test		Result-Remark	Verdict

5.2 T	TABLE: Classification of electrical energy sources						
Supply Voltage	, ,	Test conditions		F	Parameters		ES
	designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional	Class
						Info <sup>2)</sup>	
		Normal	5.0Vd.c.		SS	DC	
5.0Vd.c.	External power	Abnormal					ES1
	supply by Adapter	Single fault –SC/OC					_ ES1

# Supplementary information:

- 1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.
- 2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

5.4.1.8	TABLE: Working voltage measurement						
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	z) Comments		
	-						
Supplementary information:							

5.4.1.10.2	7.2 TABLE: Vicat softening temperature of thermoplastics						
Method:				ISO 306 / B50	_		
Object/ Part	No./Material	Manufacturer/trademark		Thickness (mm) T softenii		ng (°C)	
		-					
Supplementary information:							

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics							N/A
Allowed impression diameter (mm) ≤ 2 mm							_
Object/Part No./Material Manufacturer/trademark Thickne			Thickness	(mm)	Test temperature	Imp	ression

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'	IEC 62368-1					
Clause	Requirement-Test	Result-Remark	Verdict			

			(°C)	diameter (mm)				
Supplementary information:								

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

#### Supplementary information:

- 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 (DTI) at/of	through	insulation	Peak voltage (V)	Insulation	Required DTI (mm)	Mea	asured DTI (mm)			
Supplementa	Supplementary information:									

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz						
Insulation ma	aterial	<b>E</b> P	Frequency (kHz)	<b>K</b> R	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)
							-
Supplementary information:							

5.4.9	TABLE: Electric strength tests						
Test voltage applied between:		Voltage shape	Test voltage (V)	Bre	eakdown		
		(Surge, Impulse, AC,		١	es / No		

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IEC 62368-1					
Clause	Requirement-Test	Result-Remark	Verdict		

	DC, etc.)						
Supplementary information:							

5.5.2.2	TABLE:	TABLE: Stored discharge on capacitors						
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class		
Supplementa	ary informa	ition:						
X-capacitors	installed for	or testing:						
[ ] bleedi	ing resisto	rating:						
[ ] ICX:								
1) Normal op	erating co	ndition (e.g., normal op	eration, or open fuse),	SC= short circuit,	OC= open circu	it		

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

5.7.4	TABLE	: Unearthed accessible parts					N/A	
Location		Operating and fault Supply Voltage		Parameters			ES class	
		conditions	(V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)		
				-				
Supplementary information:								
Abbreviation: SC= short circuit; OC= open circuit								

5.7.5	TABLE: Earthed accessible conductive part	N/A	
-------	---	-----	--

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		IEC 62368-1	
Clause	Requirement-Test	Result-Remark	Verdict
	_		,
Supply volt	tage (V):		

Supply voltage (V):						_
Phase(s):	[] Single Ph	[] Single Phase; [] Three Phase: [] Delta [] Wye				
Power Distribution System:	[]TN	[ ]TT	[]IT			
Location	Fault Condi 60990 claus		in IEC	Touch current (mA)	Comm	ent
Supplementary Information:						

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

6.2.2	TABLE: Power source circuit classifications					Р
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class
Input port	Normal condition					PS2**

#### Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

- (\*) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.
- (\*\*) The EUT is recharged by external adapter source via port, PS2 circuit assumed.

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

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	TABLE: Determination of mediation BIO							
Clause	Requirement-Test	Result-Remark	Verdict					
	IEC 62368-1							
Troportition	5.: BE 622 18 1200 10 1	1001 1000						

6.2.3.2	TABLE: Determina	ition of resistive PIS		Р					
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No					
Internal part/circuit				Yes					
Supplementa	Supplementary information:								
Abbreviation	: SC= short circuit; O	C= open circuit							

8.5.5	TABLE: High press	sure lamp				N/A				
Lamp manufacturer		Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No					
Supplementa	Supplementary information:									

9.6	TABLE:	Temperatu	re measure	ments	for v	vireless pov	wer transm	itters		N/A
Supply voltage	ge (V)		:							_
Max. transmit power of transmitter (W):								_		
					receiver and with receive ect contact distance of				eiver and at ce of 5 mm	
Foreign ol	bjects	Object (°C)	Ambient (°C)	Obje (°C		Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Supplementa	Supplementary information:									

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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict

5.4.1.4,	TABLE: Tempera	ture measu	rement	s				Р
9.3, B.1.5, B.2.6								
Supply voltag	e (V)		:	5.0\	_			
Ambient temp	perature during tes	See below	See below			_		
Maximum me	asured temperatur		Т (	°C)		Allowed T <sub>max</sub> (°C)		
PCB near U1	00 (main board)	62.6	78.3			130		
PCB near U2	00 (main board)	55.4	71.1			130		
PCB near U1	203 (main board)	53.5	69.2			130		
Plastic inside	near PCB			51.4	67.1			70
Ambient				24.3	40.0			
Touch temper	rature:							
Camera				38.7	39.4			77
Plastic outsid	e near PCB			40.3	41.0			77
Ambient				24.3	25.0			1
Temperature T of winding: $t_1$ (°C) $R_1$ ( $\Omega$			2) t <sub>2</sub> (°C)	$R_2\left(\Omega\right)$	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class	

#### Supplementary information:

Supplementary information:

Note 1: Tma should be considered as directed by applicable requirement.

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

Note 3: The maximum ambient temperature specified by manufacturer is 40°C.

Note 4: The equipment normal operating.

Note 5: All values for T(C) are re-calculated from Tamb respectively.

B.2.5	TAE	BLE: Input	test						Р	
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condit	ion/status	
5.0Vd.c.		0.392	1	1.96				EUT no		
Supplemen	Supplementary information:									

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·		IEC 62368-1			
Clause	Requirement-Test		Result-Remark	Ve	rdict

1)Max normal working condition: Connect to the Internet, turn on the camera.

B.3, B.4	TAB	LE: Abnormal o	perating and	I fault con	dition tests			Р	
Ambient tem	peratu	ıre T <sub>amb</sub> (°C)			:	See below	,	_	
Power source	e for E	EUT: Manufacture	er, model/type	e, output ra	ting:				
Component N	No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	-		
U903 Pin1-4		S-C	5.0VDC	10mins			Input current: 0.392A→0A Unit shutdown, No damaged, No hazard.		
U1301 PinA1	1-A2	S-C	5.0VDC	10mins			Input current: 0.392A→0A Unit shutdown, No damaged, No hazard.		
Q1301 Pin2-	3	S-C	5.0VDC	10mins			Input current: 0.392A→0A Unit shutdown, No damaged, No hazard.		
U1404 Pin2-	9	S-C	5.0VDC	10mins			Input current: 0.392A→0A Unit shutdown, No damaged, No hazard.		
U1505 Pin1-	6	S-C	5.0VDC	10mins			Input current:0.392 A- Unit normally operatir No damaged, No haz	ng,	

#### Supplementary information:

- 1) S-C: Short-circuited; O-C: Open-circuited; O-L: Overloaded; OVC=Overcharge.
- 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: Pro	tection circuits for batteries p	rovided within	the equipment	N/A		
Is it possible to	install the ba	ttery in a reverse polarity position	on?:		_		
		Charging					
Equipment S	pecification	Voltage (V)		Current (A)			
		Battery specification					
Manufacturer/type Non-rechargeable batteries				Rechargeable batteries			

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IEC 62368-1						
Clause	Requirement-Test	Result-Remark	Verdict			

	Discharging current (A)			ging Current (A)	Discharging current (A)	Reverse charging current (A)			
Note: The tests of M.3.2 are applicable only when above appropriate data is not available.									

Specified battery temperature (°C).....:

Component No.	Fault condition	Charge/ discharge mode	Test time	Temp.	Current (A)	Voltage (V)	Observation
				-		-	

#### 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.

M.4.2	TABLE: Charging safeguards for equipment containing a secondary lithium battery						N/A
Maximum specified charging voltage (V):							
Maximum specified charging current (A):							
Highest specified charging temperature (°C)							
Lowest speci	fied charg	ing temperature	(°C)	:			
Battery		Operating and		Measurement		Observatio	n
manufacturer	/type	fault condition	Charging	Charging	Temp.		
			voltage (V)	current (A)	(°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 intended for interconnection with building wiring (LPS)						
Output Circuit Cond	Condition	U <sub>oc</sub> (V)	Time (s)	I <sub>sc</sub> (A)		S (VA)	
	Condition	U <sub>oc</sub> (V)		Meas.	Limit	Meas.	Limit

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Keport	NO DL-3ZZ4D1Z33-101									
		IE	EC 62368-1							
Clause	Requirement-Test Result-Remark Ve						Verdict			
				,						
Suppleme	Supplementary Information:									

T.2, T.3, T.4, TABLE:	Steady force test						Р
Location/Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obse	rvation
Front enclosure	Plastic	1.28		250	5	intact, no	leveloped. tion
Side enclosure	Plastic	1.28		250	5	intact, no	leveloped. tion
Rear enclosure	Plastic	0.82		250	5	intact, no	leveloped. tion
Supplementary inform	ation:						

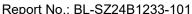
T.6, T.9 TABLE: Impa	TABLE: Impact test						
Location/Part	Material	Thickness (mm)	Height (mm)	Observatio	n		
Front enclosure	Plastic	1.28	1300	No damage, no	hazard		
Side enclosure	Plastic	0.82	1300	No damage, no	hazard		
Supplementary information:							

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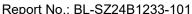


	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict

T.7	TABLE: Drop	TABLE: Drop test						
Location/Part		Material	Thickness (mm)	Height (mm)	Observatio	n		
Supplementary information:								

T.8	TABLE:	ABLE: Stress relief test						
Location/Part		Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation		
Enclosure		Plastic	0.82	77.1	7	No risk of shrinkage or distortion on material.		
Supplementary information:								

x	TABLE: Alternative method for determining minimum clearances distances								
Clearance dis	stanced between:	Peak of working voltage	Required cl	Measure	ed cl				
		(V)	(mm)	(mm)	)				
Supplementa	Supplementary information:								





·	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict

4.1.2 T	ABLE: Critical comp	onents information			Р
Object / part No	o. Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
PCB	ITEQ CORP	IT-180ATC	V-0, 130°C	UL 94 UL 796	UL E178114
РСВ	Shenzhen Xunjiexing Technology Co Ltd	JX02	V-0, 130°C	UL 94 UL 796	UL E305654
Alternative	Interchangeable	Interchangeable	V-1 or better, 105°C	UL 94 UL 796	UL
Plastic enclosu	PLASTICS (DONGGUAN) CO LTD	PC2330	V-0, 80°C, Min. thickness: 0.8mm	UL 746 UL 94	UL E225348
Alternative	Interchangeable	Interchangeable	HB or better, 60°C	UL 746 UL 94	UL
USB cable	Interchangeable	Interchangeable	30V, VW-1, 80°C	UL 758	UL

# Supplementary information:

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<sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.



# 6 Product Marking Label

HYTTO PTE. LTD.

Made in China

Model: Lovense Webcam 2

Input: 5V = 1A



152 Beach Road, #11-05 Gateway East, Singapore 189721

Label of main unit

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# 7 PHOTO DOCUMENT



Photo 1. Overall view



Photo 2. Overall view

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Photo 3. Overall view

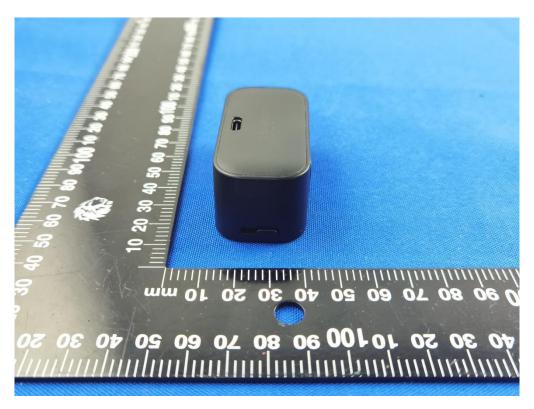


Photo 4. Overall view



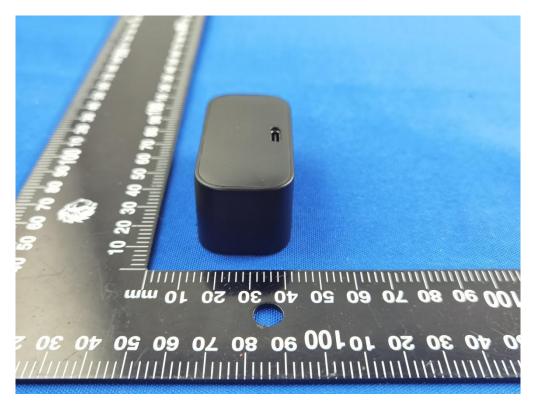


Photo 5. Overall view



Photo 6. Internal view

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Photo 7. Internal view

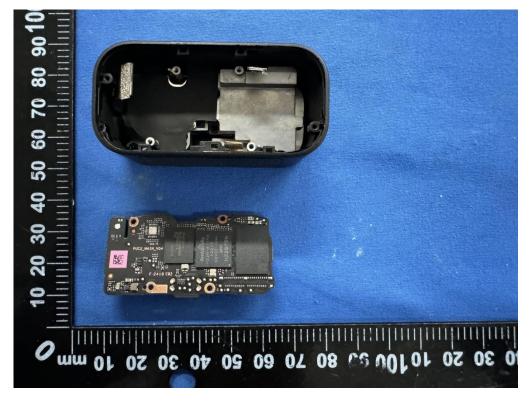


Photo 8. Internal view



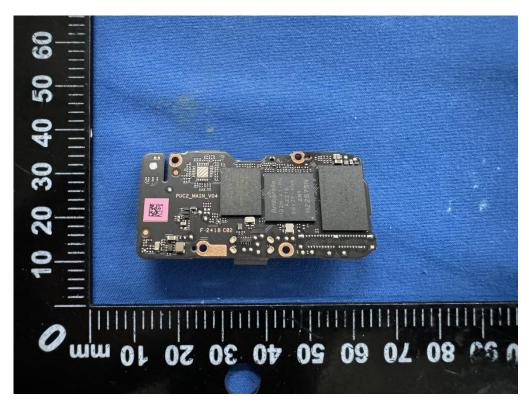


Photo 9. PCB view

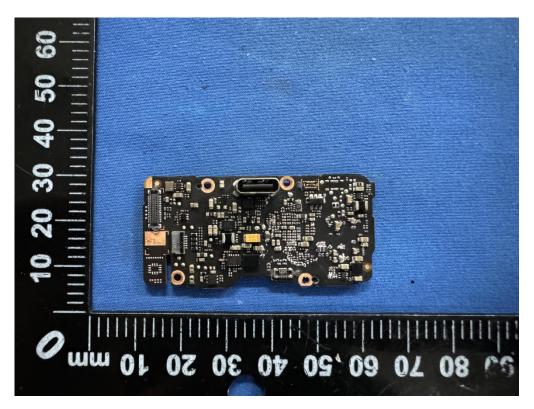


Photo10. PCB view

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