

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

Test Standard: IEC 62368-1: 2018 AS/NZS 62368.1:2022

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)

Boxin lias

Jinxin.Chen

Sunmy Zou



Revision History

VersionIssue DateRevisionsRev. 01Mar. 13, 2025Initial Issue

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name Shenzhen BALUN Technology Co., Ltd.	
Address Block B, 1/F, Baisha Science and Technology Park, Shahe We 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.	
Address Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province		
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	
Software Version	1
Dimensions(Approx.)	1
Weight(Approx.)	46.4g



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	□ Ordinary person □ Instructed person □ Skilled person		
Supply Connection	☐ AC Mains ☐ DC Mains		
	- ⊠ ES1 □ ES2 □ ES3		
Supply % Tolerance	☐ +10%/-10%		
	□ +20%/-15%		
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	⊠ movable ☐ hand-held ☐ transportable		
	☐ 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			
Access location	□ Not classified □ other		

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Manufacturer's specified	40°C ☐ Outdoor: minimum °C	
maximum operating ambient		
IP protection class		
Power Systems	☐ TN ☐ TT ☐ IT V _{L-L;} ☐ 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	AS/NZS 62368.1:2022	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)



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	
Annex B.4	Simulated single fault conditions	
Annex F.3.9	Durability, legibility and permanence of markings	
Annex T.5	Steady force test, 250 N	
Annex T.6	Impact test	
Annex T.8	Stress relief test	

Summary of compliance with National Differences:

List of countries addressed:

1. Australia / New Zealand

Note:

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



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-SZ2470097-101, the changes of the EUT of this report as below:

1. 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-SZ2470097-101. Therefore, in addition to the above differences, all test and EUT information are derived from the BL-SZ2470097-101 report, which was issued by Shenzhen BALUN Technology Co., Ltd. on Aug. 14, 2024.

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	OURCES AND SAFEGUAR			
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 st S	2 nd S
PS2: <100W	PCB	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	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			
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	-t 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 (Exempt group)	Ordinary	N/A	N/A	N/A	

Supplementary Information:

"B" - Basic Safeguard; "S" - Supplementary Safeguard; "R" - Reinforced Safeguard



4 GENERAL TEST CONFIGURATIONS

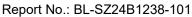
4.1 Test Environments

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	√
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	√
6	Pull and push Tester	HANDPI	BZ-SFT-L045	2025/10/07	V
7	Tape Measure	DELI	BZ-SFT-L145	2025/08/28	√
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	

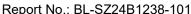
5 TEST RESULTS

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
	Push/pull test (10 N)		N/A

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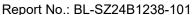
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Report	No.: BL-SZ24B1238-101		поцр
Clause	Requirement-Test	Result-Remark	Verdict
Clause	Requirement-rest	Result-Remark	verdict
4.4.3.8	Thermoplastic material tests	(See Clause T.8)	Р
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, 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
4.8.4.5	Impact test		N/A

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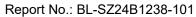




	IEC 623	68-1	
Clause	Requirement-Test	Result-Remark	Verdict
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
	30N force test with test probe		N/A
	20N force test with test hook		N/A
4.9	Likelihood of fire or shock due to entry of o	conductive object	N/A
4.10	Component requirements		N/A
4.10.1	Disconnect Device		N/A
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY		
5.2	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits	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		
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 safeguards	Only ES1 circuit can be accessed for this product.	Р

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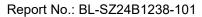
•	IEC 62368-1		-
Clause	Requirement-Test	Result-Remark	Verdict
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2			N/A
5.3.2.2	Contact requirements		IN/A
	Test with test probe from Annex V		
5.3.2.2 a)	Air gap – electric strength test potential (V):		N/A
5.3.2.2 b)	Air gap – distance (mm):		N/A
5.3.2.3	Compliance		N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material	All circuits or parts are considered as ES1. Insulations	N/A
		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
	Clearances in circuits connected to AC Mains,	(See Annex X)	N/A

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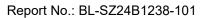
	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
	Alternative method		
5.4.2.2	Procedure 1 for determining clearance		N/A
0.4.2.2	Temporary overvoltage:		
5.4.2.3	Procedure 2 for determining clearance		N/A
5.4.2.3.2.2	a.c. mains transient voltage:		_
5.4.2.3.2.3	d.c. mains transient voltage:		_
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
5.4.4.6.4	Standard test procedure for non-separable thin		N/A

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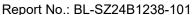


	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
	sheet material:		
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)		N/A
	Alternative by electric strength test, tested voltage (V), K _R		N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
5.4.5.3	Insulation resistance (M Ω):		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
5.4.11	Separation between external circuits and earth		N/A

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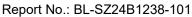


Report No.: BL-SZ24B1238-101 IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict	
5.4.11.1	Exceptions to separation between external circuits		N/A	
	and earth			
5.4.11.2	Requirements		N/A	
	SPDs bridge separation between external circuit and earth		N/A	
	Rated operating voltage U _{op} (V):			
	Nominal voltage U _{peak} (V):			
	Max increase due to variation ΔU_{sp} :		_	
	Max increase due to ageing ΔU_{sa} :		_	
5.4.11.3	Test method and compliance:		N/A	
5.4.12	Insulating liquid		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)		_	
5.6	Protective conductor		N/A	

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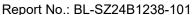


	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
5.6.2	Requirement for protective conductors		N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation		N/A
5.6.3	Requirement for protective earthing conductors		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	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm²):		N/A
	Class II with functional earthing marking:		N/A
	Appliance inlet cl & cr (mm):		N/A

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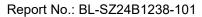


IEC 62368-1			
Clause	Requirement-Test	Result-Remark	Verdict

5.7	Prospective touch voltage, touch current and pr	otective conductor current	N/A
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections		N/A
5.7.4	Unearthed accessible parts:	(See appended table 5.7.4)	N/A
5.7.5	Earthed accessible conductive parts:	(See appended 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 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 determined by measuring the maximum power in Figures 34 and 35 for load and power source	Р

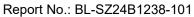
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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
		circuits.	
6.2.3	Classification of potential ignition sources	See the following details.	Р
6.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	N/A
6.2.3.2	Resistive PIS:	(See appended table 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

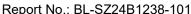
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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	No specific barrier provided.	N/A
6.4.8	Fire enclosures 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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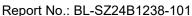


IEC 62368-1			·
Clause	Requirement-Test	Result-Remark	Verdict

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
7.2	Reduction of exposure to hazardous substances	
7.3	Ozone exposure	
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	Safeguards MS1: No sharp edges or corners.		Р
		MS1: Mass less than 7 kg.	
	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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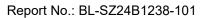


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Clause	Requirement-Test	Result-Remark	Verdict	
8.5.4.2.2	Access protection everyide		NI/A	
	Access protection override		N/A	
8.5.4.2.2.1	Override system		N/A	
8.5.4.2.2.2	Visual indicator		N/A	
8.5.4.2.3	Emergency stop system		N/A	
	Maximum stopping 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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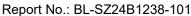


	IEC 62368-1	
Clause	Requirement-Test Result-Remark	Verdict
	T.W. 4 4	NI/A
	Tilt test	N/A
8.6.4	Glass slide test	N/A
8.6.5	Horizontal force test:	N/A
8.7	Equipment mounted to wall, ceiling or other structure	N/A
8.7.1	Mount means type	N/A
8.7.2	Test methods	N/A
	Test 1, additional downwards force (N):	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	
		T		
	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)		_	

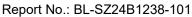
9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts:	Touch temperatures of accessible parts: (See appended table)	
9.3.2	Test method and compliance		Р
9.4	Safeguards against thermal energy sources		Р
9.5	Requirements 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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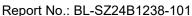


	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
	Lamps and lamp systems:	See 10.4	
	Image projectors: X-Ray:	No Image projectors	<u> </u>
	,	No X-Ray radiation	
40.0	Personal music player		— N/A
10.3	Safeguards against laser radiation		N/A
	The standard(s) equipment containing laser(s) comply		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 L _{Aeq,T} , dB(A):		N/A
	Unweighted RMS output voltage (mV):		N/A
	Digital output signal (dBFS):		N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements		N/A

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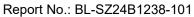
IEC 62368-1			
Clause	Requirement-Test	Result-Remark	Verdict
		1	
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements		N/A
	30 s integrated exposure level (MEL30):		N/A
	Warning for MEL ≥ 100 dB(A)		N/A
10.6.4	Measurement methods		N/A
10.6.5	Protection 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 _{Aeq,T} , dB(A):		N/A
10.6.6.3	Cordless listening devices		N/A
	Max. acoustic output L _{Aeq,T} , dB(A):		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		
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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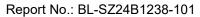


	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
B.3.3	DC mains polarity test		N/A
B.3.4	Setting of voltage selector	No setting of voltage selector within the EUT	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3 &B.4)	N/A
B.3.6	Reverse battery polarity	No reverse battery 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		N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method		N/A

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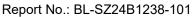


	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus:		
			N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINI	ING 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):		<u>—</u>
	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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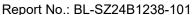




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Clause Requirement-Test Result-Remark Verdict

		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



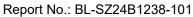


IEC 62368-1			
Clause	Requirement-Test	Result-Remark	Verdict
F.3.6.1.1	Protective earthing conductor terminal:		N/A
F.3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking:		N/A
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking:		N/A
F.3.8	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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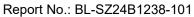
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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
	j) Permanently connected equipment not provided with all-pole mains switch		N/A
	k) Replaceable components or modules providing safeguard function		N/A
	Equipment containing insulating liquid		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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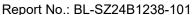


	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions:	(See appended table B.4)	N/A
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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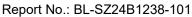


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Clause	Requirement-Test	Result-Remark	Verdict	
Giadoo	rtequirement reet	Troodit Fromant		
G.5.3.3.3	Winding temperatures - alternative test method		N/A	
G.5.3.4	Transformers using FIW		N/A	
G.5.3.4.1	General		N/A	
	FIW wire nominal diameter:		_	
G.5.3.4.2	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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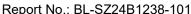


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Clause	Requirement-Test	Result-Remark	Verdict
		T	
G.6.1	General	No wire Insulation	N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords	T	N/A
G.7.1	General requirements	No mains cord provided.	N/A
	Type:		_
G.7.2	Cross sectional 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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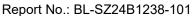
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Clause	Requirement-Test	Result-Remark	Verdict
Clause	Requirement-rest	Result-Remark	verdict
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test		N/A
G.9	Integrated circuit (IC) current limiters		N/A
G.9.1	Requirements	No IC current 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 _{ini,a} :		_
	Routine test voltage, V _{ini, b} :		_
G.13	Printed boards		Р
G.13.1	General requirements	See the following details.	Р
G.13.2	Uncoated printed boards	Only need to comply with functional insulation, see annex B.4.4	Р
G.13.3	Coated printed boards		N/A



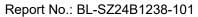


Report	Report No.: BL-SZ24B1238-101 IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict		
G.13.4	Insulation between conductors on the same inner surface		N/A		
G.13.5	Insulation between conductors on different surfaces		N/A		
	Distance through insulation:		N/A		
	Number of insulation layers (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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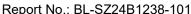


	IEC 62368-1	
Clause	Requirement-Test Result-Remark	Verdict
	:	
	Largest capacitance and smallest resistance for	
	ICX tested by itself for 10000 cycles test:	_
G.16.3	Capacitor discharge test:	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	N/A
H.1	General	N/A
H.2	Method A	N/A
H.3	Method B	N/A
H.3.1	Ringing 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 INSUI	LATION 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 repo	rt) —
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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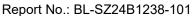
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Clause	Requirement-Test	Result-Remark	Verdict

K.4	Interlock safeguard override	N/A
K.5	Fail-safe	N/A
K.5.1		
K.6	Under single fault condition Machanically approted actaty interlocks	N/A N/A
	Mechanically operated safety interlocks	
K.6.1	Endurance requirement	N/A
K.6.2	Test method and compliance	N/A
K.7	Interlock circuit isolation	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	N/A
	In circuit connected to mains, separation distance for contact gaps (mm):	N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):	N/A
	Electric strength test before and after the test of K.7.2	N/A
K.7.2	Overload test, Current (A):	N/A
K.7.3	Endurance test	N/A
K.7.4	Electric strength test	N/A
L	DISCONNECT DEVICES	
L.1	General requirements	N/A
L.2	Permanently connected equipment	N/A
L.3	Parts that remain energized	N/A
L.4	Single-phase equipment	N/A
L.5	Three-phase equipment	N/A
L.6	Switches as disconnect devices	N/A
L.7	Plugs as disconnect devices	N/A
L.8	Multiple power sources	N/A
	Instructional safeguard:	N/A
М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS	N/A
M.1	General requirements	N/A
M.2	Safety of batteries and their cells	N/A

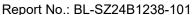




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Clause	Requirement-Test	Result-Remark	Verdict
M.2.1	Batteries and their cells comply with relevant IEC standards:		N/A
M.3	Protection circuits for batteries provided within the equipment		N/A
M.3.1	Requirements		N/A
M.3.2	Test method		N/A
	Overcharging 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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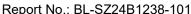




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	IEC 62368-1	1
Clause	Requirement-Test Result-Rem	ark Verdict
M.6.1	External and internal faults	N/A
M.6.2	Compliance	N/A
M.7	Risk of explosion from lead acid and NiCd batteries	N/A
M.7.1	Ventilation preventing explosive gas concentration	N/A
	Calculated 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 source aqueous electrolyte	ces 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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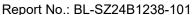
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Clause	Requirement-Test	Result-Remark	Verdict

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	s	N/A
P.4.1	General		N/A
P.4.2	Tests		N/A
	Conditioning, T _C (°C):		_
	Duration (weeks)		_
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources		N/A



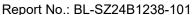


	IEC 62368-1		
Clause	Requirement-Test R	Result-Remark	Verdict
Q.1.1	Requirements		N/A
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output (S	See appended table Q.1)	N/A
	d) Overcurrent protective device limited output		N/A
	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance (S	See appended table Q.1)	N/A
	Current rating of overcurrent protective device (A)		N/A
Q.2	Test for external circuits – paired conductor N cable	lot connect 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 barrie the steady state power does not exceed 4 000 W	er materials 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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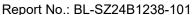
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IEC 62368-1					
Clause	Requirement-Test		Result-Remark		Verdict
	•				

S.2	Flammability test for fire enclosure and fire barr	ier integrity	N/A
	Samples, material:		—
	Wall thickness (mm):		_
	Conditioning (°C):		_
S.3	Flammability test for the bottom of a fire enclosu	ure	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

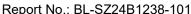




IEC 62368-1					
Clause	Requirement-Test	Result-Remark	Verdict		
	<u> </u>	·	•		

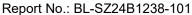
Test for telescoping or rod antennas	N/A
Torque value (Nm):	N/A
MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION	N/A
General	N/A
Instructional safeguard :	N/A
Test method and compliance for non-intrinsically protected CRTs	N/A
Protective screen	N/A
DETERMINATION 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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•	No.: BL-SZ24B1238-101 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	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





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

ATTACHMENT TO TEST REPORT

IEC 62368-1

(AUSTRALIA / NEW ZEALAND) NATIONAL DIFFERENCES

(Audio/video, information and communication technology equipment)

Differences according to...... AS/NZS 62368.1:2022

TRF template used:.....: IECEE OD-2020-F3, Ed. 1.1

Attachment Form No.....: AU_NZ_ND_IEC62368_1E

Attachment Originator...... JAS-ANZ

Master Attachment.....: 2022-07-01

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		_				
	National Differences	Р				
Appendix ZZ	Variations to IEC 62368-1:2018 (ED. 3.0) for Australia and New Zealand					
ZZ1 Scope	This Appendix lists the normative variations to IEC 62368-1:2018 (ED. 3.0)					
ZZ2 Variations	he following modifications are required for Australian/New Zealand conditions:					
2	After the first paragraph, add the following: The Australian or Australian/New Zealand Standards listed below are modified adoptions of, or not equivalent to, the IEC normative references and are required for the application of this Standard. All references in the source text to those IEC normative references shall be replaced by references to the corresponding Australian or Australian/New Zealand Standards. Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably -AS/NZS 3112, Approval and test specification—Plugs and socket-outlets -AS/NZS 3123, Approval and test specification—Plugs, socket-outlets and couplers for general industrial application -AS/NZS 3191, Electric flexible cords	P				

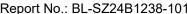
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Report	No.: BL-SZ24B1238-101	<u> </u>		
		EC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict	
		,	<u> </u>	
	-AS/NZS 60884.1.Plugs and s	socket-outlets for		
	household and similar purposes,	Part 1: General		
	requirements			
	-IEC 60086-2 Primary batteries — P	Part 2: Physical and		
	electrical specifications			
	-AS/NZS 60065, Audio, video and	similar electronic		
	apparatus—Safety requirements			
	(IEC 60065:2015 (ED.8.0) MOD)			
	-AS/NZS 60320.1, Appliance coup.	lers for household		
	and similar general purposes,			
	Part 1: General requirements (IEC (2007) MOD)	C 60320-1, Ed.2.1		
	-AS/NZS 60320.2.2, Appliance coup	olers for household		
	and similar general purposes			
	Part 2.2: Interconnection couplers	for household and		
	similar equipment (IEC 60320-2-			
	2, Ed.2.0 (1998) MOD)			
	-AS/NZS 60695.2.11, Fire hazard	testing, Part 2.11:		
	Glowing/hot wire based test me	ethods—Glow-wire		
	flammability test method for end-pro	oducts		
	-AS/NZS 60695.11.5, Fire hazard	testing, Part 11.5:		
	Test flames—Needle-flame test me	ethod—Apparatus,		
	confirmatory test arrangement and g	guidance		
	-AS/NZS 60695.11.10, Fire hazard	testing, Part 11.10:		
	Test flames—50 W			
	horizontal and vertical flame test me			
	-AS/NZS 60884.1, Plugs and	socket-outlets for		
	household and similar purposes,			
	Part 1: General requirements			
	-AS/NZS 60950.1, Informati	3,		
	equipment—Safety, Part 1: Gen	·		
	(IEC 60950-1, Ed.2.2 (2013), MOD)			
	IEC 61032:1997, Protection of person	ons and equipment		
	by enclosures—Probes for			
	verification	Transferment		
	-AS/NZS 61558.1, Safety of Power			
	Power Supplies, Reactors and Sim	mar Products, Part		
	1: General requirements and			
	tests (IEC 61558-1 Ed 3, MOD)	oformore reactors		
	-AS/NZS 61558.2.16, Safety of trans	Siorniers, reactors,		
	power supply units and similar	Port 2 16:		
	products for voltages up to 1 100 V,	ran 2.10.		

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Report I	No.: BL-SZ24B123	88-101				Group
		IEC 62368-1				
Clause	Requirement-T	est	Result-	Remark		Verdict
		equirements and tests for switch				
	1.	y units and transformers for switch i	node			
	power suppl	y units.				
4.7.2	Requiremen	ts				N/A
	Delete the to	ext of the second paragraph and <i>re</i>	place			
	with the follo	wing:				
	Equipment v	vith a plug portion, suitable for inse	ertion			
	into a 10 A	3-pin flat-pin socket-outlet conformi	ng to			
	AS/NZS 311	2, shall conform to the requirement	nts in			
	AS/NZS 31	l2 for equipment with integral pin	s for			
	insertion into	socket-outlets.				
	Conformity is	s checked by inspection and, if neces	sary,			
	by the tests i	n AS/NZS 3112.				
	NOTE: Equ	ipment with plug portions for us	e in			
	countries otl	ner than Australia and New Zealan	lliw b			
	need to conf	orm to other countries' requirements				
	Note Additional	AS/NZS 3112 Appendix J,TRF is appended to	end of			
	this TRF.					
4.7.3	Compliance	Criteria				N/A
	Delete this	clause				
4.8.1	General					N/A
		list, add the following:				
		er to the Consumer Goods (Pro				
		Button/Coin Batteries) Safety Star				
		Consumer Goods (Products Conta				
		Batteries) Information Standard 202				
	more informa	ation on button cell batteries in Austra	ılia.			
5.4.10.2.1	General					N/A
	Delete the	first paragraph and replace with	the			
	following:					
	In Australia,	the separation is checked by the	test			
	•	Clause 5.4.10.2.2 and Clause 5.4.10				
		and, the separation is checked by the	e test			
	given in eithe	er 5.4.10.2.2 or 5.4.10.2.3.				
Table 28	Delete Table	28 and <i>replace</i> with the following:				N/A
Parts		Impulse test		Steady state	test	
		New		New	Austral	

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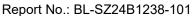
Australia

Zealand

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Zealand





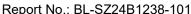
·		IEC 62368-1	
Clause	Requirement-Test	Result-Remark	Verdict

Parts indicated Clause 5.4.10.	1 a) ^a	2.5 kV	7.0 kV for helphones and headsets, 2.5 kV equipment.	nand-held / for other	1.5 kV	3 kV		
Parts indicated Clause 5.4.10.		1.5 kV °			1.0 kV	1.5 kV		
^a Surge suppre		t be remove	ed.					
□ Surge suppre	ssors may be	removed, p	rovided that such devi	ces pass th	ne impulse te	est of		
		•	onents outside the equ					
∘ During this te in a GDT.	st, it is allowe	d for a surge	e suppressor to operate	e and for a	sparkover to	occur		
5.4.10.2.2	Delete "NOT	E" and <i>repla</i>	ce with "NOTE 1".					N/A
	After NOTE	1, <i>add</i> the fo	llowing:					
	NOTE 2: For Australia, the 7 kV impulse simulates lightning surges on typical rural and semi-rural network lines.							
	NOTE 3: For Australia, the value of 2.5 kV for Clause 5.4.10.1 a) was chosen to ensure the adequacy of the insulation concerned and does not necessarily simulate likely overvoltages.							
5.4.10.2.3	Delete "NOTE" and replace with "NOTE 1". After NOTE 1, add the following:				N/A			
	NOTE 2: For Australia, where there are capacitors across the insulation under test, it is recommended that d.c. test voltages are used.							
	been deteri	mined cons	.5 kV values for Austral sidering the low fre the power supply dist	quency				
6	Electrically-	caused fire						Р
6.6	After Clause	6.6, <i>add</i> the	new Clauses 6.201 as	s follows:				Р
	6.201 Exter special natio	-	supplies, docking st	ations an	d other sin	nilar devices	(see	
8.6	Stability of	equipment						N/A
Table 36	Footnote a, a	fter first sen	tence, <i>add</i> the followin	g:				N/A

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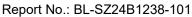
IEC 62368-1				
Clause	Requirement-Test	Result-Remark	Verdict	t

	Equipment having displays with moving images shall	
	include "television sets and display devices".	
8.6.1	After Clause 8.6.1 <i>add</i> the following new clauses:	N/A
	8.6.201 Restraining Device fixing point	
	(see special national conditions)	
	8.6.202 Restraining device	
	(see special national conditions)	
Annex F	Rated Voltage	N/A
Paragraph	Delete "NOTE" and replace with NOTE1"	
F.3.3.4	After NOTE 1, add the following	
	Equipment that is intended for connection to the	
	supply mains in Australia and New Zealand shall be marked with:	
	(a) A rated voltage of:	
	• 230 V for single phase equipment	
	 400 V for poly phase equipment 	
	Or	
	(b) A rated voltage range that	
	includes:	
	230 V for single phase equipment	
	 400 V for poly phase equipment 	
	NOTE 2: equipment that is not rated as above is not	
	suitable for direct connection to the supply mains in	
	Australia or new Zealand.	
Annex F.3.3.5	After the list, add the following	N/A
	Equipment that is intended for connection to supply	
	mains in Australia or New Zealand shall be marked	
	with a rated frequency of 50 Hz or a rated frequency	
	range or nominal value which includes 50Hz	
Annex F.3.8	After "The DC output of an external power supply",	N/A
	insert "or docking stations and other similar external	
	devices"	
Annex G	Mains connectors	N/A
Paragraph	1 After "IEC 60320", insert "or AS/NZS 60320 series".	
G.4.2	2 After "IEC 60906-1", insert"or AS/NZS 3123"	
	3 After first paragraph add the following:	

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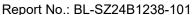
IEC 62368-1					
Clause	Requirement-Test		Result-Remark		Verdict
	ı			·	

	10 A or 15 A 250 V flat pin plugs for the connection of	
	equipment to mains-powered socket-outlets for	
	household or similar general use shall comply with	
	AS/NZS 3112 or AS/NZS 60884.1.	
Paragraph	Transformers, General	N/A
G.5.3.1	1 Third dashed point replace 'IEC 61558-1 and the	
	relevant parts of IEC 61558-2' with 'AS/NZS 61558-1	
	and the relevant parts of AS/NZS 61558.2'	
	2 Fourth dashed point replace 'IEC 61558-2-16' with	
	'AS/NZS 61558.2.16'.	
Annex	Mains supply cords, General	N/A
G.7.1	Fourth dashed paragraph, replace 'IEC 60320-1'	
6.7.1	with 'AS/NZS 60320.1'	
Table G.7	Sizes of conductors	N/A
	1 First column, second row, <i>delete</i> "6" and <i>replace</i> with	
	"7.5"	
	2 Second column, second row, delete '0,75' and	
	replace with '0.75 ^b	
	3 Delete NOTE 1.	
	4 Replace 'NOTE 2' with 'NOTE:'.	
	5 Delete 'Footnote b' and replace with the following:	
	^b This nominal cross-sectional area is only allowed for Class II	
	appliances if the length of the power supply cord, measured	
	between the point where the cord, or cord guard, enters the	
	appliance, and the entry to the plug does not exceed 2 m (0.5 mm ²	
	three-core supply flexible cords are not permitted; see AS/NZS	
	3191).	
	6 Footnote c replace 'IEC 60320-1' with 'AS/NZS	
	60320.1'	
	7 Footnote d replace 'IEC 60320-1' with 'AS/NZS	
	60320.1'	
Annex M	A 44 "IFO 00000 0" to the I' t	N/A
M 2.1	Add "IEC 60086-2" to the list	
Annex M	Test method	N/A
-		IVA
Paragraph M.3.2	Delete"NOTE 1 add the following:	
IVI.3.∠	After NOTE 1 add the following:	
	NOTE 2: In cases where the voltage source is	
	provided by power from an unassociated power	
	source, consideration should be given to the effects of	
	possible single fault conditions in the unassociated	

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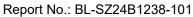
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report	No.: BL-SZ24B1238-101		Group
	IEC 6236	8-1	
Clause	Requirement-Test	Result-Remark	Verdict
5.201	equipment. If the power source is unknow should be assumed that the maximum lim may be applied to the source input under single fault conditions in the source when a the charging circuit in the equipment under te Special national conditions (if any) External power supplies, docking statiother similar devices	assumed assessing est.	N/A N/A
	For external power supplies, docking state other similar devices, during and after abnormal operating conditions are single fault conditions the output voltage—		
	(a) at all ES1 outlets or connectors increase by more than 10 % of the rated voltage under normal conditions, measured after 3 s of intresinglefault condition and after introducing abnormal operating condition and	ne output operating oducing a 3 s of	
	(b) of a USB outlet or connector shall not by more than 3 V or 10 % of the out voltage under normal operating of whichever is higher, measured after of introducing a single fault condition 3 s of introducing abnormal conditions	tput rated onditions, 3 seconds and after	
	For equipment with multiple rated voltage output, the requirements apply with the e configured for each output rated voltage in tu	equipment	
	NOTE: This is intended to reduce the post battery fire or explosion in attached equipaccessories when charging secondary batteries. The 3 s measurement delay is base document 108/742/INF, TC 108, Sometiment Interpretation Panel Question 15 — Output we relation to similar requirements in IEC 62368-	pment or Ithium ed on IEC Standards Voltage, in	

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	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict
	Conformity shall be checked by measurement, into account the abnormal operating condition Annex B.3 and the simulated single fault condition Annex B.4.	ons of	
8.6.201	Restraining device fixing point Freestanding-capable MS2 and MS3 televisio and display devices shall be provided with a point to facilitate the anchoring of the equipment toppling	fixing	N/A
	The fixing point shall conform to Clause 8.7 who fixing point uses a wall, ceiling or other str mount. Alternatively, the fixing point shall be capa withstanding a pull equal to the mass of the equi in all directions without damage	ructure able of	
	Instructions for installation or instructions for us be provided to specify correct use of the fixing p		
8.6.202	Restraining device MS2 and MS3 television sets and display device be provided with a restraining device and associated hardware to attach to the television set or of device.	ociated	N/A
	The restraining device shall be capable of withstanding a pull equal to the mass of the equi in all directions.	ipment	
	Instructions for installation or instructions for us be provided to specify correct use of the fixing p		

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

5.2 T	TABLE: Classification of electrical energy sources						Р
Supply Voltage	Location (e.g. circuit	, -				ES	
	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
		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)	Comments	
		-				
Supplementary information:						

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

5.4.1.10.3	5.4.1.10.3 TABLE: Ball pressure test of thermoplastics		N/A	
Allowed impre	ession diameter (mm):	≤ 2 mm	_	

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

Object/Part No./Material	Manufacturer/trademark	Thickness (mm)	Test temperature (°C)	Impression diameter (mm)			
Supplementary information:							

5.4.2, 5.4.3	TABLE: I	TABLE: Minimum Clearances/Creepage distance						N/A	
Clearance creepage dis at/of/betweer	-		U _{rms} (V)	Freq ¹⁾ (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (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 insulatio	on		N/A
Distance through insulation (DTI) at/of	Peak voltage (V)	Insulation	Required DTI (mm)	Measured DTI (mm)
Supplementary information:				

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz						N/A		
Insulation material		E P	Frequency (kHz)	K R	Thickness d (mm)	Insulation	V _{PW} (Vpk)		
				-					
Supplementary information:									

5.4.9	TABLE: Electric strength tests						
Test voltage	applied between:	Voltage shape	Test voltage (V)	Bre	eakdown		

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N/A

	7 DL-3224D 1230-101			<u> </u>
		IEC 62368-1		
Clause	Requirement-Test		Result-Remark	Verdict

	(Surge, Impulse, AC, DC, etc.)	Yes / No
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	
Supplement	ary informa	ation:					
X-capacitors	installed f	or testing:					
[] bleeding resistor rating:							
[] ICX:							
1) Normal o	perating 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	Duration	Voltage drop	Re	sistance		
Location		(A)	(min)	(V)		(Ω)		
Supplementary information:								

5.7.4	TABLE	TABLE: Unearthed accessible parts					
Location		Operating and fault	Supply Voltage		ES class		
		conditions	(V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	
				-			
Supplementary information:							

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TABLE: Earthed accessible conductive part

Abbreviation: SC= short circuit; OC= open circuit

5.7.5



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		IEC 62368-1	
Clause	Requirement-Test	Result-Remark	Verdict
	·		
Supply vol	tage (V):		_
Dhaga(a)		[1 Single Phase: [1 Three Phase: [1 Delta	

Supply voltage (v)				_
Phase(s):	[] Single Phase; [] Three Pha			
Power Distribution System:	[] TN [] TT[]			
Location	Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Commo	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:	SC= shor	t circuit, OC=	open circuit							

6.2.2	TABLE: Power source circuit classifications								
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (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: Determina	TABLE: Determination of Arcing PIS								
Location		Open circuit voltage	Measured r.m.s	Calculated value	Arcing PIS?					
		after 3 s (Vpk)	current (A)		Yes / No					
Supplementa	Supplementary information:									

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1									

6.2.3.2	TABLE: Determina	tion of resistive PIS		Р					
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No					
Internal part/circuit				Yes					
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)	be	ticle found yond 1 m ⁄es / No
				1		
Supplementa	ry information:					

9.6	TABLE:	Temperatu	re measure	ments for	wireless po	wer transm	itters		N/A
Supply volta	ige (V)		:						_
Max. transm	Max. transmit power of transmitter (W):								_
					ceiver and contact	with receiver and at distance of 2 mm			ver and at of 5 mm
Foreign o	objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Supplementary information:									



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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\	/d.c.		_	
Ambient temperature during test T _{amb} (°C):				See below	See below			_
Maximum measured temperature <i>T</i> of part/at:					Т (°C)		Allowed T _{max} (°C)
PCB near U100 (main board)				62.6	78.3			130
PCB near U200 (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 (Ω	2) t ₂ (°C)	$R_2\left(\Omega\right)$	T (°C)	Allowed T _{max} (°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	ABLE: Input test									
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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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 _{amb} (°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)	Observation	1
U903 Pin1-4		S-C	5.0VDC	10mins			Input current: 0.392A Unit shutdown, No damaged, No haz	
U1301 PinA1	1-A2	S-C	5.0VDC	10mins			Input current: 0.392A Unit shutdown, No damaged, No haz	
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 Unit shutdown, No damaged, No haz	
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	ection circuits for batteries provided within the equipment N/A				
Is it possible to install the battery in a reverse polarity position?:						
Charging						
Equipment Specification		Voltage (V)		Current (A)		
		Battery specification				
Manufactu	urer/type	Non-rechargeable batteries Rechargeable batteries				

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

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							
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)							N/A
Output	Condition	ition U _{oc} (V) Time (s)		I _{sc} (A)		S (VA)	
Circuit	Condition	U _{oc} (V)	Tillie (S)	Meas.	Limit	Meas.	Limit

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Supplementary Information:								

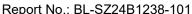
Location/Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Front enclosure	Plastic	1.28		250	5	Enclosure remaine intact, no crack/ opening developed No insulation breakdown.
Side enclosure	Plastic	1.28		250	5	Enclosure remaine intact, no crack/ opening developed No insulation breakdown.
Rear enclosure	Plastic	0.82		250	5	Enclosure remaine intact, no crack/ opening developed No insulation breakdown.

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

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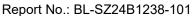
	IEC 62368-1		
Clause	Requirement-Test	Result-Remark	Verdict

T.7	TABLE: Drop	test				N/A
Location/Part		Material	Thickness (mm)	Height (mm)	Observatio	n
Supplementa	ry information:					

T.8	TABLE: 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.		
Supplementa	ry informa	ation:						

x	TABLE: Alternative method for determining minimum clearances distances								
Clearance distanced between:		Peak of working voltage	Required cl Measu		d cl				
		(V)	(mm)	(mm)					
Supplementary information:									

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Clause	Requirement-Test	Result-Remark	Verdict			

4.1.2	ТАВ	BLE: Critical components information					Р	
Object / part No.		Manufacturer/ trademark	Type / model	Technical data	Standard		Mark(s) of conformity ¹⁾	
PCB		ITEQ CORP	IT-180ATC	V-0, 130°C	UL 94 UL 796	UL E	E178114	
PCB		Shenzhen Xunjiexing Technology Co Ltd	JX02	V-0, 130°C	UL 94 UL 796	UL E	E305654	
Alternative		Interchangeable	Interchangeable	V-1 or better, 105°C	UL 94 UL 796	UL		
Plastic encl	losure	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	PC2330	V-0, 80°C, Min. thickness: 0.8mm	UL 746 UL 94	UL E	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:

¹⁾ 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

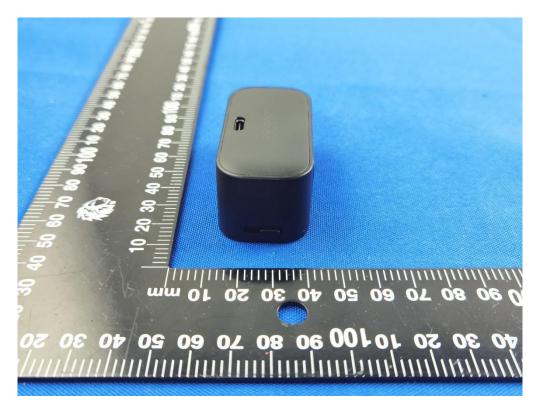


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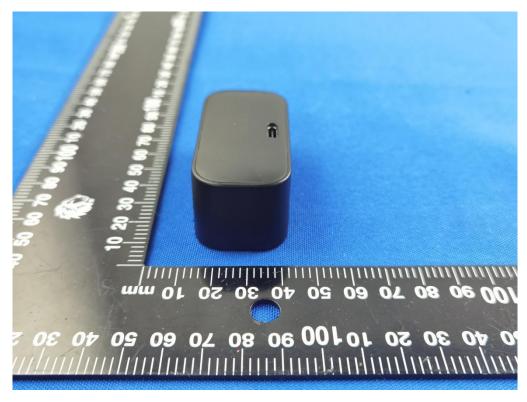


Photo 5. Overall view



Photo 6. Internal view

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Photo 7. Internal view

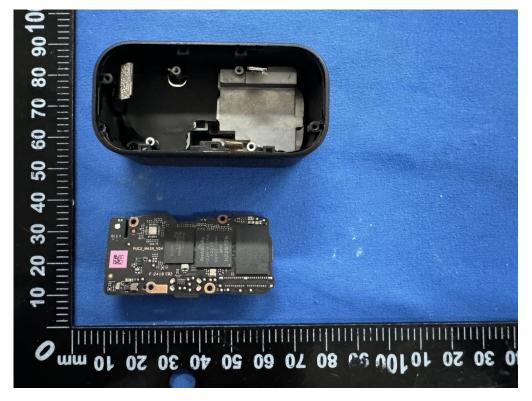


Photo 8. Internal view

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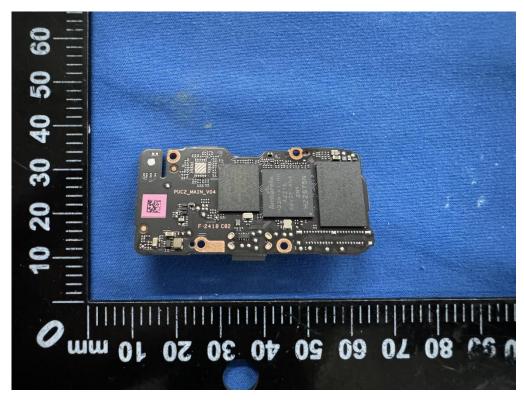


Photo 9. PCB view

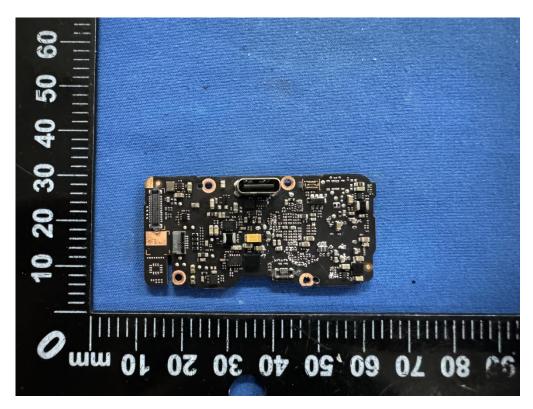


Photo10. PCB view

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