TEST REPORT

For

Shenzhen jumei Technology Co., Ltd.

SMART BAND

Model No.: F13, F22, F26, F30, F37, F57, F67, F87, F97, F107, F207

Test Report Number: CQASZ20200800354S



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TEST REPORT IEC/EN 62368-1

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

Report Number Date of issue Total number of pages Applicant's name	Sep. 14, 2020 66 pages			
Total number of pages	66 pages Shenzhen jumei Technology Co.,Ltd			
	Shenzhen jumei Technology Co.,Ltd			
Applicant's name:				
	Six Floor Xingguangbao Industrial park Huaning Road Dalang Longhua			
	Shenzhen, China			
Test specification:				
Standard	IEC 62368-1: 2014 (Second Edition)			
Test Report Form No	IEC62368_1B			
Test Report Form(s) Originator:	UL(US)			
Master TRF	2014-03			
General disclaimer:				
The test results presented in this report relate only to the object tested.				
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The authenticity of this Test Report and its contents can be verified by Shenzhen Huaxia Testing Technology Co., Ltd., responsible for this Test Report.				
Test item description:	SMART BAND			
Trade Mark:	N/A			
Manufacturer	Same as applicant			
Address	Same as applicant			
Model/Type reference:	F13, F22, F26, F30, F37, F57, F67, F87, F97, F107, F207			
Ratings:	5V===100mA			



Testing procedure and testing location: Testing Laboratory..... Shenzhen Huaxia Testing Technology Co., Ltd. Testing location/ address..... 1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China, Robert zhoo Michili Robert Zhao Prepare by (name + signature) Reviewed by (name + signature): Michael Li Approved by (name + signature): Jack Ai Summary of testing: Tests performed (name of test and test **Testing location:** clause): Shenzhen Huaxia Testing Technology Co., Ltd. The submitted samples were tested and found to 1F., Block A of Tongsheng Technology Building, Huahui comply with the requirements of: Road, Dalang Street, Longhua District, Shenzhen, China. - IEC 62368-1:2014 (Second Edition) - EN 62368-1:2014/A11:2017 Summary of compliance with National Differences: List of countries addressed: National Differences and Group Differences as per CB bulletin. ☑ The product fulfils the requirements of EN 62368-1:2014/A11:2017. Copy of marking plate: The artwork below may be only a draft. Until approval by National Certification Bodies and they shall not be affixed to products. SMART BAND Model: F22 Input: 5V===100mA Shenzhen jumei Technology Co., Ltd Made in China Remark: 1. The height of CE graphical symbols was not Less than 5 mm and the height of Recycling graphical symbols was not Less than 7 mm The height of letters and numerals were not less than 2 mm; 2.



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Test item particulars:	
Classification of use by:	 Ordinary person Instructed person Skilled person Children likely to be present
Supply Connection:	 □ AC Mains □ DC Mains □ External Circuit - not Mains connected - □ ES1 □ ES2 □ ES3
Supply % Tolerance:	 □ +10%/-10% □ +20%/-15% □ +%/% ⊠ None
Supply Connection – Type:	 pluggable equipment type A - non-detachable supply cord appliance coupler direct plug-in mating connector pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector X other: supplied by 5Vdc
Considered current rating of protective device as part of building or equipment installation	16A (or 20A for US and Canada); Installation location: □ building; ⊠ equipment
Equipment mobility	 movable hand-held transportable stationary for building-in direct plug-in rack-mounting wall-mounted
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV ⊠ other: _DC power supply
Class of equipment:	□ Class I □ Class II ⊠ Class III
Access location:	 Operator accessible Restricted access location N/A
Pollution degree (PD)	□ PD 1
Manufacturer's specified maxium operating ambient :	25°C
IP protection class:	
Power Systems	\Box TN \Box TT \Box IT - <u>230V</u> _{L-L} (for Norway only) \boxtimes N/A
Altitude during operation (m):	⊠ 2000 m or less □ m
Altitude of test laboratory (m):	□ 2000 m or less ⊠ <u>500</u> m
Mass of equipment (kg)	⊠ <u>0.060</u> kg



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Possible test case verdicts	
- test case 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)
Testing:	
Date of receipt of test item:	Aug. 11, 2020
Date (s) of performance of tests	Aug. 11, 2020 – Aug.14, 2020
General remarks:	
"(See Enclosure #)" refers to additional information app "(See appended table)" refers to a table appended to the	· ·
Throughout this report a \square comma / \boxtimes point is us	ed as the decimal separator.
manufacturer (an EU-based importer or authorized rep	an product safety law (ProdSG), the name and address of resentative if the manufacturer is not based in EU) shall be n its packaging or in a document accompanying the product
Manufacturer's Declaration per sub-clause 4.2.5 of I	ECEE 02:
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes⊠ Not applicable
When differences exist; they shall be identified in th	e General product information section.
Name and address of factory (ies):	Same as applicant.
General product information:	
Product description:	
The EUT was supplied by DC5V or internal battery.	
Model differences:	
All model is identical except for model name.	
Additional application considerations – (Considera N/A	tions used to test a component or sub-assembly):

N/A



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Energy Source Identification And Classification Table:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.) (Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.

Electrically-caused injury (Clause 5):

(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification)

Example: +5 V dc input

ES1

Source of electrical energy	Corresponding classification (ES)
USB input	ES1
Battery output	ES1

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification) Example: Battery pack (maximum 85 watts): PS2

Corresponding classification (PS)	
PS2 (declared)	
PS1	

Injury caused by hazardous substances (Clause 7)

(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.) Example: Liquid in filled component

Example. Elquid in filled component	Ciycol	
Source of hazardous substances	Corresponding chemical	
N/A	N/A	

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit MS2

Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and corners	MS1
Equipment mass (<7kg)	MS1



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Thermal burn injury (Clause 9)				
(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.) Example: Hand-held scanner – thermoplastic enclosure TS1				
Source of thermal energy Corresponding classification (TS)				
External surfaces	ernal surfaces TS1			
Radiation (Clause 10)				
(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1				
Type of radiation Corresponding classification (RS)				
LED light	RS1			



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Energy source diagram
Indicate which energy sources are included in the energy source diagram. Insert diagram below
🗆 ES 🗌 PS 🗌 MS 🗌 TS 🗌 RS



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Overview of employed safeguard	ls			
Clause	Possible Hazard			
5.1	Electrically-caused injury	/		
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary; Instructed; Skilled	ES1: All circuit	N/A	N/A	N/A
6.1	Electrically-caused fire			
Material part	Energy Source		Safeguards	
(e.g. mouse enclosure)	(PS2: 100Watt circuit)	Basic	Supplementary	Reinforced
All combustible materials within equipment	PS2: all parts	(N): Material does not exceed ignition temperature	(S): - Reduce the likelihood of ignition; - Fire enclosure	N/A
Plastic enclosure	PS1: Battery pack	N/A	N/A	N/A
7.1	Injury caused by hazard	lous substances		
Body Part	Energy Source	Safeguards		
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced
8.1	Mechanically-caused inj	ury		
Body Part	Energy Source		Safeguards	
(e.g. Ordinary)	(MS3: High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary; Instructed; Skilled	MS1: Sharp edges and corners	N/A	N/A	N/A
Ordinary; Instructed; Skilled	MS1: Equipment mass (<7kg)	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part	Energy Source	Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced
Ordinary; Instructed; Skilled	TS1: External surfaces	N/A	N/A	N/A
10.1	Radiation			
		Safeguards		
(e.g., Ordinary)	(Output from audio	Basic	Supplementary	Reinforced



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	port)			
Ordinary; Instructed; Skilled	RS1: LED light	N/A	N/A	N/A
Supplementary Information:				
(1) See attached energy source diagram for additional details.				
(2) "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault				



IEC 62368-1 Result - Remark Clause Requirement + Test Verdict 4 Ρ **GENERAL REQUIREMENTS** 4.1.1 Р Acceptance of materials, components and subassemblies Ρ Use of components 4.1.2 Р 4.1.3 Equipment design and construction 4.1.15 Markings and instructions.....: (See Annex F) Р Р 4.4.4 Safeguard robustness 4.4.4.2 Steady force tests.....: Р (See Annex T.4) Р 4.4.4.3 Drop tests.....: (See Annex T.7) 4.4.4.4 (See Annex T.6) N/A Impact tests.....: Internal accessible safeguard enclosure and 4.4.4.5 (See Annex T.3) N/A barrier tests.....: 4.4.4.6 Glass Impact tests.....: (See Annex T.9, Annex U) N/A 4.4.4.7 (See Annex T.8) Р Thermoplastic material tests..... (See Annex T) 4.4.4.8 Air comprising a safeguard.....: N/A Р 4.4.4.9 Accessibility and safeguard effectiveness 4.5 Explosion N/A Р 4.6 Fixing of conductors 4.6.1 Р Fix conductors not to defeat a safeguard Ρ 4.6.2 10 N force test applied to: Considered 4.7 Equipment for direct insertion into mains socket -N/A outlets 4.7.2 Mains plug part complies with the relevant N/A standard.....: 4.7.3 Torque (Nm).....: N/A 4.8 Products containing coin/button cell batteries No coin/ button cell batteries N/A 4.8.2 Instructional safeguard N/A 4.8.3 N/A **Battery Compartment Construction** Means to reduce the possibility of children removing the battery.....: 4.8.4 Battery Compartment Mechanical Tests.....: (See Table 4.8.4) N/A 4.8.5 Battery Accessibility N/A 4.9 Likelihood of fire or shock due to entry of (See Annex P) N/A conductive object....::

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5	ELECTRICALLY-CAUSED INJURY		Р
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits		Р



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Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits:	(See appended table 5.2)	N/A
5.2.2.4	Single pulse limits:	(See appended table 5.2)	N/A
5.2.2.5	Limits for repetitive pulses:	(See appended table 5.2)	N/A
5.2.2.6	Ringing signals:	(See Annex H)	N/A
5.2.2.7	Audio signals:	(See Clause E.1)	N/A
5.3	Protection against electrical energy sources		N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards		N/A
5.3.2.2	Contact requirements		N/A
	a) Test with test probe from Annex V		N/A
	b) Electric strength test potential (V):		N/A
	c) Air gap (mm):		N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements		N/A
5.4.1.2	Properties of insulating material		N/A
5.4.1.3	Humidity conditioning:	No hygroscopic insulating material used	N/A
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	N/A
5.4.1.5	Pollution degree	Pollution degree 2	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage		N/A
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.10.2	Vicat softening temperature:	(See appended table 5.4.1.10.2)	N/A
5.4.1.10.3	Ball pressure:	(See appended table 5.4.1.10.3)	N/A
5.4.2	Clearances		N/A
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	N/A
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.3)	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	a) a.c. mains transient voltage	2500V _{peak}	
	b) d.c. mains transient voltage:		
	c) external circuit transient voltage:		
	d) transient voltage determined by measurement		_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	(See appended table 5.4.2.4)	N/A
5.4.2.5	Multiplication factors for clearances and test voltages:		N/A
5.4.3	Creepage distances:	(See appended table 5.4.3)	N/A
5.4.3.1	General		N/A
5.4.3.3	Material Group:	Assume to group IIIb	—
5.4.4	Solid insulation		N/A
5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.4.2)	N/A
5.4.4.3	Insulation compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	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
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	(See appended Table 5.4.9)	N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz:	(See appended Table 5.4.4.9)	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
	Insulation resistance (MΩ):		—
5.4.6	Insulation of internal wire as part of supplementary safeguard:	(See appended table 5.4.4.2)	N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		N/A
	Relative humidity (%):		



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Temperature (°C)		
	Duration (h):		
5.4.9	Electric strength test:	(See appended table 5.4.9)	N/A
5.4.9.1	Test procedure for a solid insulation type test		N/A
5.4.9.2	Test procedure for routine tests		N/A
5.4.10	Protection against transient voltages between external circuit		N/A
5.4.10.1	Parts and circuits separated from external circuits	(See appended table 5.4.9)	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:	(See appended table 5.4.9)	N/A
5.4.10.2.3	Steady-state test	(See appended table 5.4.9)	N/A
5.4.11	Insulation between external circuits and earthed circuitry:	(See appended table 5.4.9)	N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	Rated operating voltage U _{op} (V):		
	Nominal voltage U _{peak} (V):		
	Max increase due to variation U _{sp}		
	Max increase due to ageing ΔU_{sa} :		
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$		
5.5	Components as safeguards		N/A
5.5.1	General		N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	(See appended table 5.5.2.2)	N/A
5.5.3	Transformers	(See Annex G.5.3)	N/A
5.5.4	Optocouplers	(See sub-clause 5.4 or Annex G.12)	N/A
5.5.5	Relays	(See Annex G.2)	N/A
5.5.6	Resistors	(See Annex G.10)	N/A
5.5.7	SPD's	(See Annex G.8)	N/A
5.5.7.1	Use of an SPD connected to reliable earthing		N/A
5.5.7.2	Use of an SPD between mains and protective earth		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	(See Annex G.10.3)	N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors	No such 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 (mm ²):		
5.6.4	Requirement for protective bonding conductors		N/A
5.6.4.1	Protective bonding conductors		N/A
	Protective bonding conductor size (mm ²):		
	Protective current rating (A):		
5.6.4.3	Current limiting and overcurrent protective devices		N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement		N/A
	Conductor size (mm ²), nominal thread diameter (mm)		N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective system		N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method Resistance (Ω):	(See appended table 5.6.6.2)	N/A
5.6.7	Reliable earthing		N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A
5.7.2	Measuring devices and networks	Figure 4 and 5 of IEC 60990:1999 used	N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections		N/A
	System of interconnected equipment (separate connections/single connection):	Single connection	
	Multiple connections to mains (one connection at a time/simultaneous connections)		
5.7.4	Earthed conductive accessible parts	(See appended Table 5.7.4)	N/A
5.7.5	Protective conductor current		N/A
	Supply Voltage (V):		
	Measured current (mA)		



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Clause	Requirement + Test	Result - Remark	Verdict
	Instructional Safeguard:	(See F.4 and F.5)	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits		N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits		N/A
5.7.7	Summation of touch currents from external circuits		N/A
	a) Equipment with earthed external circuits Measured current (mA):		N/A
	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):		N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		Р
6.2.2	Power source circuit classifications		Р
6.2.2.1	General		Р
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	Р
6.2.2.4	PS1:	(See appended table 6.2.2)	Р
6.2.2.5	PS2:	(See appended table 6.2.2)	Р
6.2.2.6	PS3:	(See appended table 6.2.2)	N/A
6.2.3	Classification of potential ignition sources		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 and abnormal operating conditions		Р
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	Р
6.3.1 (b)	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault conditions	S	Р
6.4.1	Safeguard Method	Control of fire spread	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	General		N/A
6.4.3.2	Supplementary Safeguards		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Special conditions if conductors on printed boards are opened or peeled		N/A
6.4.3.3	Single Fault Conditions	(See appended table 6.4.3)	N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		Р
6.4.5	Control of fire spread in PS2 circuits		Р
6.4.5.2	Supplementary safeguards:	(See appended tables 4.1.2 and Annex G)	Р
6.4.6	Control of fire spread in PS3 circuit		N/A
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.1	General:	(See tables 6.2.3.1 and 6.2.3.2)	N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers		N/A
6.4.8.1	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		N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)		N/A
	Needle Flame test		N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)		N/A
	Flammability tests for the bottom of a fire enclosure		N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):		N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating		N/A
6.5	Internal and external wiring		Р
6.5.1	Requirements		Р
6.5.2	Cross-sectional area (mm ²):		
6.5.3	Requirements for interconnection to building wiring	(See Annex Q.)	N/A
6.6	Safeguards against fire due to connection to additional equipment		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	External port limited to PS2 or complies with Clause Q.1		N/A

7	INJURY CAUSED BY HAZARDOUS SUBSTANC	CES	N/A
7.2	Reduction of exposure to hazardous substances		N/A
7.3	Ozone exposure		N/A
7.4	Use of personal safeguards (PPE)		N/A
	Personal safeguards and instructions		
7.5	Use of instructional safeguards and instructions		N/A
	Instructional safeguard (ISO 7010)		_
7.6	Batteries	(See Annex M)	N/A

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General		Р
8.2	Mechanical energy source classifications	Sharp edges and corners and equipment mass are both classified as MS1	Ρ
8.3	Safeguards against mechanical energy sources		Р
8.4	Safeguards against parts with sharp edges and corners		N/A
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts		N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
8.5.2	Instructional Safeguard:		_
8.5.4	Special categories of equipment comprising moving parts		N/A
8.5.4.1	Large data storage equipment		N/A
8.5.4.2	Equipment having electromechanical device for destruction of media		N/A
8.5.4.2.1	Safeguards and Safety Interlocks	(See Annex F.4 and Annex K)	N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
	Instructional Safeguard:		_
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N):		N/A
8.5.5	High Pressure Lamps		N/A
8.5.5.1	Energy Source Classification		N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.5.5.2	High Pressure Lamp Explosion Test	(See appended table 8.5.5.2)	N/A
8.6	Stability	Equipment mass < 7.0kg and is classified as MS1	N/A
8.6.1	Product classification		N/A
	Instructional Safeguard:		
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		N/A
	Applied Force		
8.6.2.3	Downward Force Test		N/A
8.6.3	Relocation stability test		N/A
	Unit configuration during 10° tilt		
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force):		N/A
	Position of feet or movable parts:		
8.7	Equipment mounted to wall or ceiling	No wall mounting means	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface):		N/A
8.7.2	Direction and applied force:		N/A
8.8	Handles strength	No handle	N/A
8.8.1	Classification		N/A
8.8.2	Applied Force		N/A
8.9	Wheels or casters attachment requirements	No wheels or casters attachment	N/A
8.9.1	Classification		N/A
8.9.2	Applied force		
8.10	Carts, stands and similar carriers	No carts, stands or similar carriers	N/A
8.10.1	General		N/A
8.10.2	Marking and instructions		N/A
	Instructional Safeguard:		
8.10.3	Cart, stand or carrier loading test and compliance		N/A
	Applied force		
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
	Applied horizontal force (N)		
8.10.6	Thermoplastic temperature stability (°C):		N/A
8.11	Mounting means for rack mounted equipment		N/A
8.11.1	General		N/A



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	IEC 02300-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.11.2	Product Classification		N/A
8.11.3	Mechanical strength test, variable N		N/A
8.11.4	Mechanical strength test 250N, including end stops		N/A
8.12	Telescoping or rod antennas	(See Annex T)	N/A
	Button/Ball diameter (mm):		

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	External surfaces classified as TS1	Р
9.3	Safeguard against thermal energy sources	No safeguard required	N/A
9.4	Requirements for safeguards		N/A
9.4.1	Equipment safeguard		N/A
9.4.2	Instructional safeguard:		N/A

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification		Р
10.3	Protection against laser radiation		N/A
	Laser radiation that exists equipment:		
	Normal, abnormal, single-fault:		N/A
	Instructional safeguard:		
	Tool:		
10.4	Protection against visible, infrared, and UV radiation	LED light classified as RS1	Р
10.4.1	General		Р
10.4.1.a)	RS3 for Ordinary and instructed persons		N/A
10.4.1.b)	RS3 accessible to a skilled person:		N/A
	Personal safeguard (PPE) instructional safeguard:		
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:	LED light classified as RS1	Р
10.4.1.d)	Normal, abnormal, single-fault conditions:	(See appended table B.3 & B.4)	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque:		N/A
10.4.1.f)	UV attenuation:		N/A
10.4.1.g)	Materials resistant to degradation UV		N/A
10.4.1.h)	Enclosure containment of optical radiation:		N/A
10.4.1.i)	Exempt Group under normal operating conditions		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
10.4.2	Instructional safeguard:		N/A
10.5	Protection against x-radiation		N/A
10.5.1	X- radiation energy source that exists equipment:	(See appended table B.3 & B.4)	N/A
	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards:		N/A
	Instructional safeguard for skilled person:		N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation		_
	Abnormal and single-fault condition:	(See appended table B.3 & B.4)	N/A
	Maximum radiation (pA/kg)		N/A
10.6	Protection against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output, dB(A):		N/A
	Output voltage, unweighted r.m.s:		N/A
10.6.4	Protection of persons		N/A
	Instructional safeguards:		N/A
	Equipment safeguard prevent ordinary person to RS2		—
	Means to actively inform user of increase sound pressure:		—
	Equipment safeguard prevent ordinary person to RS2		_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)		N/A
10.6.5.1	Corded passive listening devices with analog input		N/A
	Input voltage with 94 dB(A) <i>L</i> _{Aeg} acoustic pressure output:		
10.6.5.2	Corded listening devices with digital input		N/A
	Maximum dB(A)		—
10.6.5.3	Cordless listening device		N/A
	Maximum dB(A):		

	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.2	Normal Operating Conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р



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Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
B.3.1	General requirements:	(See appended table B.3)	N/A
B.3.2	Covering of ventilation openings		N/A
B.3.3	D.C. mains polarity test		N/A
B.3.4	Setting of voltage selector:		N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	N/A
B.3.6	Reverse battery polarity		N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	During an abnormal operating condition that does not lead to a single fault condition, all safeguards are remained effective. After restoration of normal operating conditions, all safeguards are compliance with applicable requirements	N/A
B.4	Simulated single fault conditions		Р
B.4.2	Temperature controlling device open or short- circuited	No such device	N/A
B.4.3	Motor tests		N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	(See Clause G.5)	N/A
B.4.4	Short circuit of functional insulation		Р
B.4.4.1	Short circuit of clearances for functional insulation		Р
B.4.4.2	Short circuit of creepage distances for functional insulation		Ρ
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed board	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors		Р
B.4.6	Short circuit or disconnect of passive components		Р
B.4.7	Continuous operation of components	No such components	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	During and after a single fault condition, a class 1 or class 2 energy sources did not become a class 3 energy source. For a class 3 energy source, during and after a single fault condition, at least one safeguard continued to comply with the relevant safeguard requirements.	P
B.4.9	Battery charging under single fault conditions:	(See Annex M)	Р

С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	No UV radiation	N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus		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 CONTAINING AUDIO AMPLIFIERS	
E.1	Audio amplifier normal operating conditions	N/A
	Audio signal voltage (V)	—
	Rated load impedance (Ω)	
E.2	Audio amplifier abnormal operating conditions	N/A

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		Р
F.1	General requirements		Р
	Instructions – Language:	English	—
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1		Р



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Clause	Requirement + Test	Result - Remark	Verdict
F.2.2	Graphic symbols IEC, ISO or manufacturer specific		Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	Equipment marking is located on its exterior surface and is readily visible	Р
F.3.2	Equipment identification markings		Р
F.3.2.1	Manufacturer identification:	See marking plate	
F.3.2.2	Model identification	See marking plate	
F.3.3	Equipment rating markings		Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains	Class III equipment without direct connection to mains	Р
F.3.3.3	Nature of supply voltage		
F.3.3.4	Rated voltage		
F.3.3.4	Rated frequency:		
F.3.3.6	Rated current or rated power:		
F.3.3.7	Equipment with multiple supply connections	No multiple supply connections	N/A
F.3.4	Voltage setting device	No voltage setting device	N/A
F.3.5	Terminals and operating devices	No terminals and operating devices	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlet and socket-outlet	N/A
F.3.5.2	Switch position identification marking	No switches	N/A
F.3.5.3	Replacement fuse identification and rating markings	No such fuse	N/A
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	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 apparatus	N/A
F.3.6.1.1	Protective earthing conductor terminal		N/A
F.3.6.1.2	Neutral conductor terminal		N/A
F.3.6.1.3	Protective bonding conductor terminals		N/A
F.3.6.2	Class II equipment (IEC60417-5172)	Class III apparatus	N/A
F.3.6.2.1	Class II equipment with or without functional earth		N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking		N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
F.3.7	Equipment IP rating marking:	IPX0	
F.3.8	External power supply output marking		Р
F.3.9	Durability, legibility and permanence of marking		Р
F.3.10	Test for permanence of markings	After each test, the marking shall remain legible, shall show no curling and shall not be removable by hand.	Ρ
F.4	Instructions		Р
	a) Equipment for use in locations where children not likely to be present - marking		N/A
	b) Instructions given for installation or initial use		Р
	c) Equipment intended to be fastened in place		N/A
	d) Equipment intended for use only in restricted access area		N/A
	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		N/A
	f) Protective earthing employed as safeguard		N/A
	g) Protective earthing conductor current exceeding ES 2 limits		N/A
	h) Symbols used on equipment		N/A
	i) Permanently connected equipment not provided with all-pole mains switch		N/A
	j) Replaceable components or modules providing safeguard function		N/A
F.5	Instructional safeguards		N/A
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction		N/A

G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General requirements	No switches	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.2	Relays		N/A
G.2.1	General requirements	No relays	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power		N/A
G.2.4	Mains relay, modified as stated in G.2		N/A
G.3	Protection Devices		N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.3.1	Thermal cut-offs	No thermal cut-offs	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Thermal cut-off connections maintained and secure		N/A
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal links	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
	Aging hours (H)		
	Single Fault Condition		
	Test Voltage (V) and Insulation Resistance (Ω):		
G.3.3	PTC Thermistors	No PTC thermistors	N/A
G.3.4	Overcurrent protection devices	Approved fuse provided	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	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	No connectors used.	N/A
G.4.2	Mains connector configuration:		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound Components		N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°		N/A
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Time (s):		
	Temperature (°C):		
G.5.2.3	Wound Components supplied by mains		N/A
G.5.3	Transformers		N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1)		N/A



Report No.: CQASZ20200800354S Page 26 of 66 IEC 62368-1 **Result - Remark** Clause Requirement + Test Verdict Position.....: Method of protection: G.5.3.2 Insulation N/A Protection from displacement of windings..... G.5.3.3 Overload test..... N/A G.5.3.3.1 Test conditions N/A G.5.3.3.2 Winding Temperatures testing in the unit N/A G.5.3.3.3 Winding Temperatures - Alternative test method N/A G.5.4 N/A Motors G.5.4.1 General requirements N/A Building in the appliance Position: G.5.4.2 Test conditions N/A G.5.4.3 Running overload test N/A G.5.4.4 N/A Locked-rotor overload test Test duration (days) Running overload test for d.c. motors in G.5.4.5 N/A secondary circuits G.5.4.5.2 N/A Tested in the unit Electric strength test (V)..... Tested on the Bench - Alternative test method; G.5.4.5.3 N/A test time (h) Electric strength test (V)..... G.5.4.6 Locked-rotor overload test for d.c. motors in N/A secondary circuits G.5.4.6.2 Tested in the unit N/A N/A Maximum Temperature Electric strength test (V) N/A Tested on the bench - Alternative test method; G.5.4.6.3 7h N/A test time (h).....: Electric strength test (V).....: 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 G.6.1 General N/A G.6.2 Solvent-based enamel wiring insulation N/A



G.9.1 e)

Manufacturers' defined drift

IEC 62368-1 Requirement + Test Result - Remark Clause Verdict **G.7** Mains supply cords N/A G.7.1 General requirements No mains supply cords N/A Туре..... Rated current (A)..... Cross-sectional area (mm²), (AWG)...... G.7.2 Compliance and test method N/A G.7.3 Cord anchorages and strain relief for non-N/A detachable power supply cords G.7.3.2 Cord strain relief N/A G.7.3.2.1 N/A Requirements Strain relief test force (N).....: ____ G.7.3.2.2 Strain relief mechanism failure N/A G.7.3.2.3 Cord sheath or jacket position, distance (mm).....: G.7.3.2.4 Strain relief comprised of polymeric material N/A G.7.4 Cord Entry.....: (See appended table 5.4.11.1) N/A G.7.5 N/A Non-detachable cord bend protection G.7.5.1 Requirements N/A G.7.5.2 Mass (g) Diameter (m)..... Temperature (°C)..... G.7.6 Supply wiring space N/A G.7.6.2 Stranded wire N/A G.7.6.2.1 Test with 8 mm strand N/A G.8 Varistors N/A G.8.1 General requirements No Varistors used N/A G.8.2 N/A Safeguard against shock G.8.3 Safequard against fire N/A Varistor overload test.....: G.8.3.2 (See appended table B.3) N/A G.8.3.3 N/A Temporary overvoltage..... (See appended table B.3) G.9 Integrated Circuit (IC) Current Limiters N/A N/A Manufacturer defines limit at max. 5A. No IC current limiters G.9.1 a) G.9.1 b) Limiters do not have manual operator or reset N/A G.9.1 c) Supply source does not exceed 250 VA G.9.1 d) IC limiter output current (max. 5A).....

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Page 28 of 66 IEC 62368-1 Requirement + Test Result - Remark Verdict Clause G.9.2 Test Program 1 N/A G.9.3 Test Program 2 N/A G.9.4 Test Program 3 N/A G.10 N/A Resistors G.10.1 General requirements No such resistors N/A G.10.2 Resistor test N/A G.10.3 Test for resistors serving as safeguards between the mains and an external circuit consisting of a N/A coaxial cable G.10.3.1 General requirements N/A G.10.3.2 Voltage surge test N/A G.10.3.3 Impulse test N/A G.11 Capacitor and RC units N/A G.11.1 General requirements N/A G.11.2 N/A Conditioning of capacitors and RC units G.11.3 Rules for selecting capacitors N/A G.12 **Optocouplers** N/A Optocouplers comply with IEC 60747-5-5:2007 N/A No optocouplers used Spacing or Electric Strength Test (specify option and test results).....: Type test voltage V_{ini}: Routine test voltage, V_{ini,b}: G.13 **Printed boards** Ρ G.13.1 General requirements Р G.13.2 Uncoated printed boards The insulation between conductors Р on the outer surfaces of an uncoated printed board is compliant with the minimum requirements of clearances (5.4.2) and creepage distances (5.4.3). N/A G.13.3 Coated printed boards G.13.4 Insulation between conductors on the same inner N/A surface Compliance with cemented joint requirements (Specify construction)..... G.13.5 Insulation between conductors on different N/A surfaces Distance through insulation..... (See appended table 5.4.4.5) N/A Number of insulation layers (pcs): G.13.6 Tests on coated printed boards N/A



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н	CRITERIA FOR TELEPHONE RINGING SIGNALS	
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):	



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Clause	Requirement + Test	Result - Remark	Verdict
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 complied with		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)		

J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
	General requirements		N/A

К	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
K.2	Components of safety interlock safeguard mechanism	(See Annex G)	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance:	(See appended table B.4)	N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):		N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test:	(See appended table 5.4.11)	N/A

L	DISCONNECT DEVICES		N/A
L.1	General requirements	No connection to mains supply.	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



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Clause	Requirement + Test	Result - Remark	Verdict
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A

М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Requirements	The battery pack and its cell complied with IEC 62133 (See append table 4.1.2)	Р
M.2.2	Compliance and test method (identify method):		Р
M.3	Protection circuits		Р
M.3.1	Requirements		Р
M.3.2	Tests		Р
	- Overcharging of a rechargeable battery		Р
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery	Battery connector can prevent the battery from being reverse charged	N/A
	- Excessive discharging rate for any battery	(See append table Annex M)	Р
M.3.3	Compliance:	(See appended Tables and Annex M and M.4)	Р
M.4	Additional safeguards for equipment containing secondary lithium battery		Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Charging operating limits		Р
M.4.2.2a)	Charging voltage, current and temperature:	(See Table M.4)	
M.4.2.2 b)	Single faults in charging circuitry:	(See Annex B.4)	
M.4.3	Fire Enclosure		Р
M.4.4	Endurance of equipment containing a secondary lithium battery		Р
M.4.4.2	Preparation		Р
M.4.4.3	Drop and charge/discharge function tests		Р
	Drop		Р
	Charge		Р
	Discharge		Р



IEC 62368-1 Requirement + Test Result - Remark Clause Verdict M.4.4.4 Charge-discharge cycle test Р M.4.4.5 Р Result of charge-discharge cycle test M.5 Risk of burn due to short circuit during carrying N/A M.5.1 N/A Requirement M.5.2 Compliance and Test Method (Test of P.2.3) N/A Р M.6 Prevention of short circuits and protection from other effects of electric current Р M.6.1 Short circuits M 6 1 1 General requirements Internal lithium battery complies Р with IEC 62133 or IEC 62133-2 M.6.1.2 Test method to simulate an internal fault N/A M.6.1.3 Compliance (Specify M.6.1.2 or alternative N/A method): M.6.2 N/A Leakage current (mA): M.7 Risk of explosion from lead acid and NiCd N/A No such battery used batteries M.7.1 Ventilation preventing explosive gas N/A concentration M.7.2 Compliance and test method N/A M.8 Protection against internal ignition from external No such battery used N/A spark sources of lead acid batteries M.8.1 General requirements N/A M.8.2 N/A Test method M.8.2.1 General requirements N/A M.8.2.2 Estimation of hypothetical volume *Vz* (m³/s)......: M.8.2.3 Correction factors.....: M.8.2.4 Calculation of distance d (mm) M.9 Р Preventing electrolyte spillage M.9.1 Protection from electrolyte spillage Р M.9.2 Tray for preventing electrolyte spillage N/A M.10 Instructions to prevent reasonably foreseeable Ρ misuse (Determination of compliance: inspection, data review; or abnormal testing):

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Ν	ELECTROCHEMICAL POTENTIALS		N/A
	Metal(s) used	Pollution degree considered	



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Clause Requirement + Test Result - Remark Verdict				
O MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES				
U	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A	

Ρ	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A
P.1	General requirements		N/A
P.2.2	Safeguards against entry of foreign object		N/A
	Location and Dimensions (mm):		
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts:		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts		N/A
P.4.2 a)	Conditioning testing		N/A
	Tc (°C):		
	Tr (°C):		
	Ta (°C):		
P.4.2 b)	Abrasion testing:	(See G.13.6.2)	N/A
P.4.2 c)	Mechanical strength testing:	(See Annex T)	N/A

Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources		N/A
Q.1.1 a)	Inherently limited output		N/A
Q.1.1 b)	Impedance limited output		N/A
	- Regulating network limited output under normal operating and simulated single fault condition		N/A
Q.1.1 c)	Overcurrent protective device limited output		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
Q.1.1 d)	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method		N/A
Q.2	Test for external circuits – paired conductor cable	No such external circuits	N/A
	Maximum output current (A):		
	Current limiting method		

R	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General requirements	N/A
R.2	Determination of the overcurrent protective device and circuit	N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).	N/A

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	N/A
	Samples, material	
	Wall thickness (mm)	
	Conditioning (°C)	
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	- Material not consumed completely	N/A
	- Material extinguishes within 30s	N/A
	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
	Samples, material	
	Wall thickness (mm):	
	Conditioning (°C):	
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	Test specimen does not show any additional hole	N/A
S.3	Flammability test for the bottom of a fire enclosure	N/A
	Samples, material:	
	Wall thickness (mm):	
	Cheesecloth did not ignite	N/A



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IEC 62368-1		
Requirement + Test	Result - Remark	Verdict
Flammability classification of materials		N/A
Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
Samples, material:		
Wall thickness (mm):		
Conditioning (test condition), (°C):		
Test flame according to IEC 60695-11-20 with conditions as set out		N/A
After every test specimen was not consumed completely		N/A
After fifth flame application, flame extinguished within 1 min		N/A
	Requirement + Test Flammability classification of materials Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W Samples, material. Wall thickness (mm). Conditioning (test condition), (°C). Test flame according to IEC 60695-11-20 with conditions as set out After every test specimen was not consumed completely After fifth flame application, flame extinguished	Requirement + Test Result - Remark Flammability classification of materials Flammability classification of materials Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W Samples, material

Т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements		Р
T.2	Steady force test, 10 N:	(See appended table T.2)	Р
Т.3	Steady force test, 30 N	(See appended table T3)	N/A
T.4	Steady force test, 100 N:	(See appended table T4)	Р
T.5	Steady force test, 250 N:	(See appended table T5)	N/A
Т.6	Enclosure impact test	(See appended table T6)	N/A
	Fall test		N/A
	Swing test		N/A
T.7	Drop test:	(See appended table T7)	Р
T.8	Stress relief test:	(See appended table T8)	Р
T.9	Impact Test (glass)		N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J)		
	Height (m):		
T.10	Glass fragmentation test:	(See sub-clause 4.4.4.9)	N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		

U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION		N/A
U.1	General requirements	No CRTs	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen	(See Annex T)	N/A

V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)					
V.1	Accessible parts of equipment	Р				
V.2	Accessible part criterion	Р				



Page 37 of 66 Report No.: CQASZ20200800354S IEC 62368-1 Clause Requirement + Test Result - Remark Verdict 4.1.2 **TABLE: List of critical components** Р Object / part No. Manufacturer/ Type / model Technical data Standard Mark(s) of trademark conformity¹ SABIC JAPAN L L EXL1414T(GG HB, 80°C, Min. UL 94 UL E207780 Enclosure С thickness: 1.0mm FXE1414T(G G) V-0 or better UL 94 UL (Alternative) Various Various PCB F-M, F-D V-0, 130°C UL E123995 SHENZHEN UL 94, UL 746 HOPESERACH PCB MANUFACTURIN G CO LTD (Alternative) Various Various V-1 or better, UL UL 94, UL 746 min. 130°C 3.7V, 170mAh Battery pack Shenzhen 352225 CE IEC 62133-2: Qianhaiyifan 2017 Technology Co.,Ltd LCD panel SHENZHEN 1541203 DC2.6-3.3V Test with ___ appliance LIANXUN **OPTRONICS** CO.,LTD

Supplementary information:

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

 $^{2)}$ Description line content is optional. Main line description needs to clearly detail the component used for testing



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		IEC 623	368-1					
Clause	Requiremen	t + Test	Result - Remark					
4.8.4, 4.8.5	TABLE: Lit	hium coin/button cell batteries	mechanical tests	N/A				
(The follow	/ing mechani	cal tests are conducted in the s	sequence noted.)					
4.8.4.2	TABLE: Str	ess Relief test						
Р	art	Material	Oven Temperature (°C)	Comments				
4.8.4.3	TABLE: Bat	ttery replacement test						
Battery par	t no			_				
Battery Inst	tallation/withd	rawal	Battery Installation/Removal Cycle	Comments				
			1					
			2					
			3					
			4					
			5					
			6					
			8					
			9					
			10					
4.8.4.4	TABLE: Dro	p test						
Impac	ct Area	Drop Distance	Drop No.	Observations				
			1					
			2					
,			3					
4.8.4.5	TABLE: Imp	act						
Impacts p	ber surface	Surface tested	Impact energy (Nm)	Comments				
4.8.4.6	TABLE: Cru	ish test						
Test p	position	Surface tested	Crushing Force (N)	Duration force applied (s)				
Supplement	ary informatio	n:						



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

4.8.5	TABLE: Lithium coin/button cell batteries mechanical test result							
Test position Surface tested Force (N) Durati apple apple apple apple								
-								
Supplement	Supplementary information:							

5.2	Table: Classification of electrical energy sources								
5.2.2.2 -	- Steady State	Voltage and Cur	rrent conditions						
	Gupphy	Location (e.g.		Parameters					
No.	Supply Voltage	circuit designation)	Test conditions	U (Vrms or Vpk)	l (Apk or Arms)	Hz	ES Class		
1	5Vdc	All circuit	Normal						
			Abnormal				ES1		
			Single fault:						
2	4.2Vdc	Battery output	Normal						
			Abnormal				ES1		
			Single fault:]		

Supplementary information:

- SC - Short-circuited; OC - Open-circuited.

- #: Current (U2 / 500 peak value) is measured using the measuring network specified in Figure 4, IEC 60990:1999.

- @: Current (U3 / 500 peak value) is measured using the measuring network specified in Figure 5, IEC 60990:1999.

- Bridge Y1-capacitor: N/A.

5.2.2.3 - Capacitance Limits

	Supply	Location (e.g.	Testereditions	Parameters			
No.	Voltage	circuit designation)	Test conditions	Capacitance, nF	Upk (V)	ES Class	
			Normal				
			Abnormal				
		Sin SC/					



Page 40 of 66 Report No.: CQASZ20200800354S IEC 62368-1 Clause Requirement + Test Result - Remark Verdict 5.2.2.4 - Single Pulses Location (e.g. Parameters Supply No. circuit **Test conditions** ES Class Voltage Duration (ms) Upk (V) lpk (mA) designation) Normal ----___ ------___ Abnormal ---__ ___ ___ Single fault – SC/OC --__ ___ 5.2.2.5 - Repetitive Pulses Location (e.g. Parameters Supply No. circuit Test conditions ES Class Voltage Off time (ms) Upk (V) lpk (mA) designation) --Normal ----___ ---___ Abnormal ---------___ Single fault -----___ SC/OC Test Conditions: Normal -Abnormal -Supplementary information: SC=Short Circuit, OC=Short Circuit

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements							
	Supply voltage (V):	5Vdc (Battery charging)	5Vdc (Battery charging)	4.2V (Battery dischargin g)	4.2V (Battery dischargin g)	—		
	Ambient T _{min} (°C):	25.0	40.0	25.0	40.0	—		
	Ambient T _{max} (°C):	25.0	40.0	25.0	40.0	_		
	Tma (°C):		4().0		_		
Maximum m	easured temperature T of part/at:		Т (°C)		Allowed T _{max} (°C)		
EUT positio	n							
PCB near U	3		48.8		46.2	130		
PCB near U	PCB near U4		57.6		56.0	130		
Battery surface			49.9		47.7			
Internal enc	losure (plastic)		46.4		45.3			
External end	closure (plastic)	29.1		28.3		#48		



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	IEC 62368-1									
Clause	Requirement + Test				Resu	ılt - Rem	ark		Verdict	
External end	losure (LCD panel)		27.	9			27.2		#48	
Ambient			25.	0	4(0.0	25.0	40.0		
#: External s Note 1: Tma	ary information: urfaces touched occasion should be considered as is not included in assess	directed b	y appliable	e requ)			
Temperature	e T of winding:	t₁ (°C)	R ₁ (Ω)	t ₂ (°	°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class	
Supplementa	Supplementary information:									

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics					
Penetration	(mm):					
Object/ Part	No./Material	Manufacturer/t rademark)			
supplementa	ary information:	•				

5.4.1.10.3	.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed imp	pression diameter	(mm):	≤ 2 mm					
Object/Part	No./Material	Manufacturer/trademark	Test temperature (°C)	meter (mm)				
Supplementary information:								

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum Clearances/Creepage distance Image: stance Image: stance stance Image: stance stance							
	cl) and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequency (kHz) ¹	Required cl (mm)	cl (mm)²	Required ³ cr (mm)	cr (mm)
Functional:								
Basic/supple	ementary:							
Reinforced:								
Supplementa	ary information:							



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		IEC 62368-1					
Clause	Requirement + Test		Result - Remark			Verdict	
5.4.2.3 TABLE: Minimum Clearances distances using required withstand voltage						N/A	
Overvoltage Category (OV):							
Pollution Degree: 2							
Clearance distanced between: Required withstand voltage (mm) Required cl					cl (mm)		
Functional	:						
Basic/supp	plementary:			-			
Reinforced	d:						
Suppleme	ntary information:						

5.4.2.4	TABLE: Clearances based on electric strength test					
Test voltage applied between: Required cl (mm) Test voltage (kV) peak/ r.m.s. / d.c.				Breakd Yes /		
Supplementary information:						

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distar	TABLE: Distance through insulation measurements						
Distance through insulation Peak voltage Frequency (V) (kHz) Material Required DTI (mm)						DTI (mm)		
Supplementary information:								

5.4.9	TABLE: Electric strength tests					
Test voltage	e applied between:	Voltage shape (AC, DC)	Test voltage (V)		eakdown Yes / No	
Functional:	Functional:					
Basic/supple	ementary:					
Reinforced:			· · · · · · · · · · · · · · · · · · ·			
Supplement	Supplementary information:					



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Clause	Requirement + Test	Result - Remark	Verdict

5.5.2.2	TABLE: Stored discharge on capacitors							
Supply Volt	age (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification		
	- tary informat							

Supplementary information:

5.6.6.2	TABLE: Resistance o	TABLE: Resistance of protective conductors and terminations						
						sistance (Ω)		
Suppleme	Supplementary information:							

5.7.2.2, 5.7.4	P, TABLE: Earthed accessible conductive part		
Supply vol	ltage		
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)
		1	
		2*	
		3	
		4	
		5	
		6	
		8	
Suppleme	ntary Information:	· · · · · ·	



Page 44 of 66 Report No.: CQASZ20200800354S IEC 62368-1 Result - Remark Clause Requirement + Test Verdict 6.2.2 Table: Electrical power sources (PS) measurements for classification Ρ Max Power after 5 Max Power after 3 s PS Classification Source Description Measurement s*) Power (W) : -----USB port All circuit $V_A(V)$ PS2 (declared) : ----- $I_A(A)$: -----Power (W) 4.06 : --PS1 Battery Battery pack $V_A(V)$: 3.50 -pack output (Normal) $I_A(A)$: 1.16 ---Power (W) 4.09 : --Battery PS1 Battery pack $V_A(V)$: 2.59 --pack output (Single fault) : 1.58 $I_A(A)$ --Supplementary Information: (*) Measurement taken only when limits at 3 seconds exceed PS1 limits

6.2.3.1	Table: Determination of Potential Ignition Sources (Arcing PIS)						
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No		



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Circuit Location (x-y) Operating Condition (Normal / Describe Single Fault) Measured wattage or VA During first 30 s (W / VA) Measured wattage or VA After 30 s (W / VA) Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment) Resis PIS	IEC 62368-1								
Circuit Location (x-y) Operating Condition (Normal / Describe Single Fault) Measured wattage or VA During first 30 s (W / VA) Measured wattage or VA After 30 s (W / VA) Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment) Resis	Clause	Requiremen	Requirement + Test Result - Remark						
Circuit Location (x-y) Operating Condition (Normal / Describe Single Fault) Measured wattage or VA During first 30 s (W / VA) Measured wattage or VA After 30 s (W / VA) Regulator, or PTC Operated? Resis PIS PIS	6.2.3.2	Table: Determination of Potential Ignition Sources (Resistive PIS)					Р		
	Circuit Loc	cation (x-y)	(Normal / Describe	wattage or VA During first 30	wattage or VA After 30 s (W /	Regulator, or PTC Operated? Yes / No	Resistive PIS? Yes/No		
All parts Ye	All p	oarts					Yes		

Supplementary Information:

Note 1: A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

Note 2: A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, <u>or</u> (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

Note 3: All circuits inside the equipment enclosure are declared as resistive PIS.

8.5.5	TABLE: High Pressure Lamp				
Description		Values	Energy Source C	lassification	
Lamp type	:		_		
Manufacture	er:		—		
Cat no	:		—		
Pressure (c	old) (MPa):		MS_		
Pressure (o	perating) (MPa):		MS_		
Operating ti	me (minutes)		—		
Explosion m	nethod:		—		
Max particle	e length escaping enclosure (mm). :		MS_		
Max particle	e length beyond 1 m (mm):		MS_		
Overall resu	ılt:				
Supplement	tary information:				



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	IEC 62368-1									
Clause Requirement + Test Result - Remark Verdict										
B.2.5	B.2.5 TABLE: Input test P									
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Conditi	on/status		
5 0.10 0.5 Normal operation										
Supplement	ary informatio	n:								

ADLE: ADN	BLE: Abnormal operating condition tests							
perature (°C)				:	See below	I		—
Power source for EUT: Manufacturer, model/type, output rating: See below						—		
Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T- couple	Temp. (°C)	Ob	servation
	for EUT: Ma	for EUT: Manufacturer, Abnormal Supply Condition voltage,	e for EUT: Manufacturer, model/type, Abnormal Supply Test time Condition voltage, (ms)	e for EUT: Manufacturer, model/type, output ra Abnormal Supply Condition Voltage, (V) Test time Fuse no.	Abnormal ConditionSupply voltage, (V)Test time (ms)Fuse no.Fuse current, (A)	e for EUT: Manufacturer, model/type, output rating:See belowAbnormal ConditionSupply voltage, (V)Test time (ms)Fuse no.Fuse current, (A)T- couple	e for EUT: Manufacturer, model/type, output rating:See belowAbnormal ConditionSupply voltage, (V)Test time (ms)Fuse no.Fuse current, 	e for EUT: Manufacturer, model/type, output rating: See below Abnormal Condition Supply voltage, (V) Test time (ms) Fuse no. Fuse current, (A) T- Temp. (°C) Ob

Supplementary information:

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

1) OL: overload.

2) The Hi-pot test conducted successfully after the completion of fault condition test.

3) Output terminal does not exceed ES1 limits.

4) Temperature limits under the fault condition:

•Enclosure outside: 58°C



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Supplementary information:

1) OL: overload. SC: shirt circuit.

2) The Hi-pot test conducted successfully after the completion of fault condition test.

3) Output terminal does not exceed ES1 limits.

4) Temperature limits under the fault condition:

•Enclosure outside: 58°C

Annex M	TABLE: Batteries						Р
The tests of Annex M are applicable only when appropriate battery data is not available							
Is it possible to install the battery in a reverse polarity position?							
Non-rechargeable batteries Rechargeable batteries							
	Discharging	Un-	Charging	Discha	arging	Reverse	ed charging



华层	华复准测				age 48 of 6	6	Repo	t No.: CQASZ20200800354S		
				IE	EC 62368-	1				
Clause	Rec	uirement + Test Result - Remark							Verdict	
		Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. curren during norm condition					110mA	170mA	37mA	170mA		
Max. curren during fault condition	t				110mA	170mA	38mA	170mA		
									- 1	
Test results	:							Remark		Verdict
- Chemical I	leaks	3						No		Р
- Explosion	of th	e battery						No	D I	Р
- Emission of flame or expulsion of molten metal No							Р			
- Electric strength tests of equipment after completion of tests								N/A		
Supplement	tary i	nformatior	1:						I	

Annex M.4	Table: Add batteries	able: Additional safeguards for equipment containing secondary lithium atteries						
Battery/Cell No.		Test conditions	Measurements				Observation	
			U	I (A)	Temp (C)			
Battery		Normal	4.2	0.110			*	
		Abnormal		0.110			*	
		Single fault	0	0			*	

Supplementary Information:

*: Under normal operating conditions, abnormal operating conditions battery not exceed the maximum specified charging voltage and maximum specified charging current.

SC - Short-circuited, OC - Open-circuited

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
Battery	0°C	Charge within the rated range claimed by the manufacturer	58°C	Stop charging

Supplementary Information:

Manufacturer indicating the temperature (for battery) exceed 55±5°C, Battery cannot charge.



Page 49 of 66 Report No.: CQASZ20200800354S IEC 62368-1 Requirement + Test Result - Remark Verdict Clause Annex TABLE: Circuits intended for interconnection with building wiring (LPS) N/A Q.1 Note: Measured UOC (V) with all load circuits disconnected: Components I_{sc} (A) S (VA) Output U_{oc} (V) Circuit Limit Meas. Meas. Limit --------___ ___ ___ ___ Supplementary Information: SC=Short circuit, OC=Open circuit

T.2, T.3, T.4, T.5	TABL	ABLE: Steady force test						
Part/Location		Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observat	ion	
Internal components				10	5	*		
Enclosure (near batte		Plastic	Min. 1.5	100	5	*		
Enclosure (near batte		Plastic	Min. 1.5	100	5	*		
Enclosure (bottom, near battery)		Plastic	Min. 1.5	100	5	*		

Supplementary information:

* During and after the application of the test force, clearance and creepage distances were not reduced below their required values; there was no rupture, leaks or loosening of any connection or part.



4= 75	艺庄	火!!	Page	e 50 of 66		Report No.: CQASZ20200800354S		
			IEC	62368-1				
Clause	Requ	uirement + Test	Result - Remark			Verdict		
T.6, T.9	TAB	TABLE: Impact tests				N/A		
Part/Loca	ation	Material	Thickness (mm)	Verti distance		Observation		
Supplemen	tary inf	ormation:						

Т.7	TABI	LE: Drop tests				Р
Part/Locat	tion	Material	Thickness (mm)	Drop Height (mm)	Observation	
Enclosure (near batte	· · ·	Plastic	Min. 1.5	1000	*	
Enclosure (near batte		Plastic	Min. 1.5	1000	*	
Enclosure Pla (bottom, near battery)		Plastic	Min. 1.5	1000	*	
Supplement	ary info	ormation:	,	,		
* During and	l after f	the tests, the energ	gy source did not	become accessi	ble.	
During and a	after th	e tests, equipmen	t safeguards wer	e not defeated.		
There was n	io indic	ation of a dielectri	c breakdown.			



Page 51 of 66 Report No.: CQASZ20200800354S IEC 62368-1 Clause Requirement + Test Result - Remark Verdict T.8 **TABLE: Stress relief test** Ρ Thickness Part/Location Material Oven Duration Observation (mm) Temperature (h) . (°C) * 70 The complete Plastic Min. 1.5 7 EUT Supplementary information: * There was no softening of the enclosure, shrinkage, warping, cracking or other signs of deterioration that would result in exposure of internal parts. Creepage and Clearance spacings were not reduced.



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	1		IEC 6236	68-1 ATTACHME			1				
Clause	Requiremen	it + Test			Result - Rer	mark	Verdic				
		A		INT TO TEST R	EPORT						
				EC 62368-1							
((monto)				
(Aud			mmunicatio	on technology eq	uipment - Pa	rt 1: Safety require	ements)				
Differences	s according t	o :	EN 623	68-1:2014+A11:	2017						
Attachmen	t Form No	:	EU_GD	_IEC62368_1B_	_11						
Attachmen	t Originator	:	Nemko	AS							
Master Att	achment	:	Date 20	17-09-22							
		ystem for Cor Il rights reserv		esting and Certi	fication of E	lectrical Equipme	ent (IECEE)				
		COMMON MOE		NS (EN)			P				
	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2014 are prefixed "Z".										
CONTENT S	Add the following annexes:										
	with their corresponding European publicationsAnnex ZB (normative)Special national conditionsAnnex ZC (informative)A-deviationsAnnex ZD (informative)IEC and CENELEC code designations for flexible cords										
	Delete all the "country" notes in the reference document (IEC 62368-1:2014) according to the following list:										
	0.2.1	Note	1	Note 3	4.1.15	Note					
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c					
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note					
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3					
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4					
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	.6 Note 3					
	For special r	national condition	ons, see An	inex ZB.			P				
1		wing note: use of certain subst stricted within the E					Р				



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IEC 62368-1 ATTACHMENT									
Clause	Requirement + Test	Result - Remark	Verdict						
	ATTACHMENT TO TEST R	EPORT							
	IEC 62368-1								
	EUROPEAN GROUP DIFFERENCES AND NA								
(Au	(Audio/video, information and communication technology equipment - Part 1: Safety requirements)								
4.Z1	 Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing 		N/A						
	protection in accordance with the rating of the wall socket outlet.								
5.4.2.3.2.4			N/A						
	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.								
10.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.		N/A						



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	IEC 62368-1 ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdic
	ATTACHMENT TO TEST R	EPORT	I
	IEC 62368-1		
	EUROPEAN GROUP DIFFERENCES AND N	ATIONAL DIFFERENCES	
(Ai	udio/video, information and communication technology ec	quipment - Part 1: Safety re	quirements)
10.5.1	Add the following after the first paragraph:		N/A
	For RS 1 compliance is checked by measurement under the following conditions:		
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or presets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. NOTE Z1 Soldered joints and paint lockings are examples of		
	adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.		
	Moreover, the measurement shall be made under fault conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.		
	 For RS1, the dose-rate shall not exceed 1 μSv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996. 		
10.6.1	Add the following paragraph to the end of the subclause:		Р
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.		
10.Z1	Add the following new subclause after 10.6.5.		Р
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	•	
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).		
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time- Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand-held and body-mounted devices, attention is drawn to EN 50360 and EN 50566		
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		N/A



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		IEC 62368-1 ATTACHM	ENT				
Clause	Requirement + To	est	Result - Remark	Verdict			
		ATTACHMENT TO TEST F	REPORT				
		IEC 62368-1					
	EUROPE	AN GROUP DIFFERENCES AND N	ATIONAL DIFFERENCES				
(Aud	lio/video, informati	on and communication technology e	quipment - Part 1: Safety req	luirements)			
Bibliograph	Add the following	standards:		N/A			
у	Add the following	notes for the standards indicated:					
	IEC 60130-9	NOTE Harmonized as EN 60130-9					
	IEC 60269-2	EC 60269-2 NOTE Harmonized as HD 60269-2.					
	IEC 60309-1	NOTE Harmonized as EN 60309-1					
	IEC 60364	NOTE some parts harmonized in H	ID 384/HD 60364 series.				
	IEC 60601-2-4	NOTE Harmonized as EN 60601-2-	-4.				
	IEC 60664-5	NOTE Harmonized as EN 60664-5.					
	IEC 61032:1997	NOTE Harmonized as EN 61032:19	998 (not modified).				
	IEC 61508-1	NOTE Harmonized as EN 61508-1.					
	IEC 61558-2-1	NOTE Harmonized as EN 61558-2-1.					
	IEC 61558-2-4	NOTE Harmonized as EN 61558-2-	-4.				
	IEC 61558-2-6	NOTE Harmonized as EN 61558-2-	-6.				
	IEC 61643-1	NOTE Harmonized as EN 61643-1.					
	IEC 61643-21 NOTE Harmonized as EN 61643-21.						
	IEC 61643-311 NOTE Harmonized as EN 61643-311.						
	IEC 61643-321 NOTE Harmonized as EN 61643-321.						
	IEC 61643-331 NOTE Harmonized as EN 61643-331.						
ZB	ANNEX ZB, SPE	CIAL NATIONAL CONDITIONS (EN	I)	Р			
4.1.15	Denmark, Finlan	d, Norway and Sweden		N/A			
	-	subclause the following is added:					
	Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.						
	The marking text i follows:	n the applicable countries shall be as					
	In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."						
	In Finland : "Laite varustettuun pisto	on liitettävä suojakoskettimilla rasiaan"					
	In Norway : "Appa	ratet må tilkoples jordet stikkontakt"					
	In Sweden: "Appa	araten skall anslutas till jordat uttag"					



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	IEC 62368-1 ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
	ATTACHMENT TO TEST R	EPORT	J
	IEC 62368-1		
	EUROPEAN GROUP DIFFERENCES AND NA	TIONAL DIFFERENCES	
(Au	udio/video, information and communication technology eq	uipment - Part 1: Safety requirem	ents)
4.7.3	United Kingdom		N/A
	To the end of the subclause the following is added:		
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex		
5.2.2.2	Denmark		N/A
	After the 2nd paragraph add the following:		
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		



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	IEC 62368-1 ATTACHME		
Clause	Requirement + Test	Result - Remark	Verdict
	ATTACHMENT TO TEST R	REPORT	
	IEC 62368-1		
	EUROPEAN GROUP DIFFERENCES AND NA	ATIONAL DIFFERENCES	
(Au	dio/video, information and communication technology ec	quipment - Part 1: Safety requ	irements)
5.4.11.1	Finland and Sweden		N/A
and Annex G	To the end of the subclause the following is added:		
9	For separation of the telecommunication network from earth the following is applicable:		
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either		
	• two layers of thin sheet material, each of which shall pass the electric strength test below, or		
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.		
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and		
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.		
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:		
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;		
	• the additional testing shall be performed on all the test specimens as described in EN 60384-14;	t	
	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.		
5.5.2.1	Norway		N/A
	After the 3rd paragraph the following is added:		
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		



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	IEC 62368-1 ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	ATTACHMENT TO TEST R	EPORT	
	IEC 62368-1		
	EUROPEAN GROUP DIFFERENCES AND NA	ATIONAL DIFFERENCES	
(At	udio/video, information and communication technology ec	quipment - Part 1: Safety rec	quirements)
5.5.6	Finland, Norway and Sweden		N/A
	To the end of the subclause the following is added:		
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.		
5.6.1	Denmark		N/A
	Add to the end of the subclause		
	Due to many existing installations where the socket- outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.		
	<i>Justification:</i> In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		
5.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for pluggable equipment type A , the following is added:		
	 the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug. 		
5.6.5.1	To the second paragraph the following is added:		N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.		
5.7.5	Denmark		N/A
	To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		



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	IEC 62368-1 ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdic		
	ATTACHMENT TO TEST R	EPORT			
	IEC 62368-1				
	EUROPEAN GROUP DIFFERENCES AND NA	ATIONAL DIFFERENCES			
(Ai	udio/video, information and communication technology eq	uipment - Part 1: Safety re	quirements)		
5.7.6.1	Norway and Sweden		N/A		
	To the end of the subclause the following is added:				
	The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.				
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.				
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:				
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"				
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.				
	Translation to Norwegian (the Swedish text will also be accepted in Norway):				
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."				
	Translation to Swedish:				
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medfőra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".				



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IEC 62368-1 ATTACHMENT					
Clause	Requirement + Test	Result - Remark	Verdict		
	ATTACHMENT TO TEST R	EPORT			
	IEC 62368-1				
	EUROPEAN GROUP DIFFERENCES AND NA	TIONAL DIFFERENCES			
(Auc	lio/video, information and communication technology eq	uipment - Part 1: Safety requireme	ents)		
5.7.6.2	Denmark		N/A		
	To the end of the subclause the following is added:				
	The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.				
B.3.1 and	Ireland and United Kingdom		N/A		
B.4	The following is applicable:				
	To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met				
G.4.2	Denmark		N/A		
	To the end of the subclause the following is added:				
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.				
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.				
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.				
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.				
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.				
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a				
	<i>Justification:</i> Heavy Current Regulations, Section 6c				



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	IEC 62368-1 ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	ATTACHMENT TO TEST R	EPORT	
	IEC 62368-1		
	EUROPEAN GROUP DIFFERENCES AND NA		
(A	udio/video, information and communication technology eq	uipment - Part 1: Safety re	quirements)
G.4.2	United Kingdom		N/A
	To the end of the subclause the following is added:		
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		
G.7.1	United Kingdom		N/A
	To the first paragraph the following is added:		
	 Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved 		
074	conversion plug.		N/A
G.7.1	Ireland To the first paragraph the following is added:		N/A
	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard		
G.7.2	Ireland and United Kingdom		N/A
	To the first paragraph the following is added:		
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.		



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	IEC 62368-1 ATTACHMI	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	ATTACHMENT TO TEST F	EPORT	L
	IEC 62368-1		
	EUROPEAN GROUP DIFFERENCES AND N	ATIONAL DIFFERENCES	
(A	udio/video, information and communication technology ed	quipment - Part 1: Safety require	ments)
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		Р
10.5.2	Germany		N/A
	The following requirement applies:		
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.		
	<i>Justification:</i> German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.		
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de		



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Photo documentation

Details of: External view



Details of: External view





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Report No.: CQASZ20200800354S

Photo de



Details of: External view

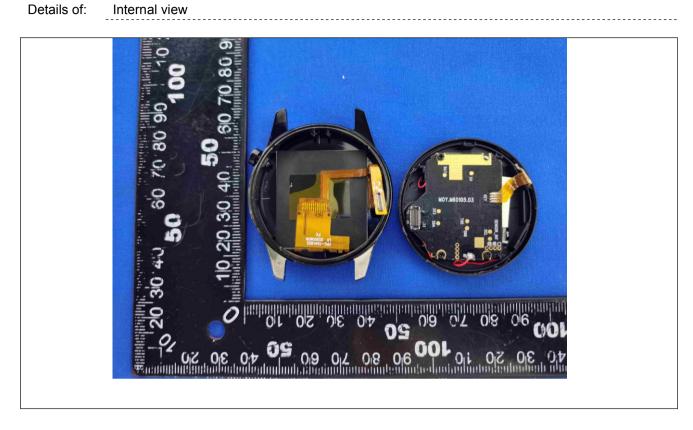




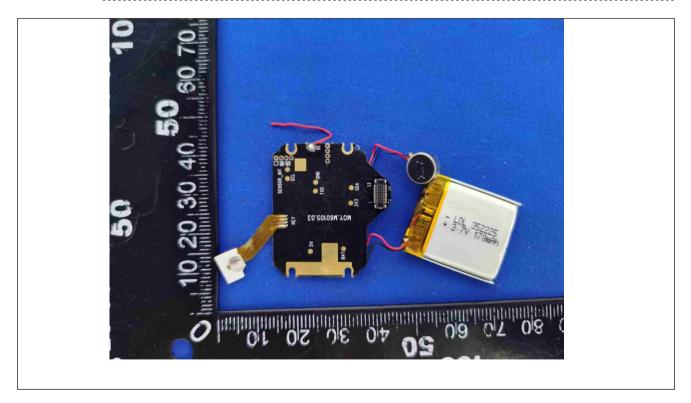
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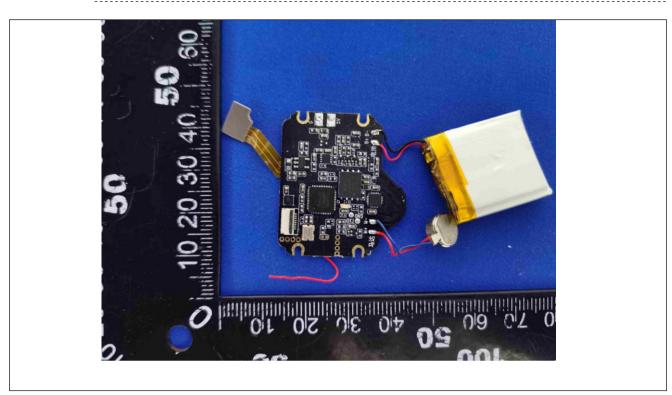




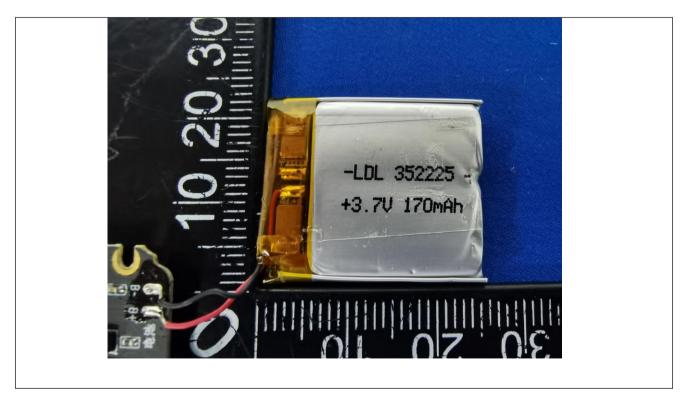


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Details of: Battery view



The report end