

TEST REPORT

Report No.:	STS221018001001E
Product:	Smart phone
Model No.:	BV9200
Applicant:	DOKE COMMUNICATION (HK) LIMITED
Address:	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA
Issued by:	Shenzhen NTEK Testing Technology Co., Ltd.
Lab Location:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China
Tel:	400-800-6106, 0755-2320 0050 / 2320 0090



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TEST REPORT IEC/EN62368-1

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

Report Number	STS221018001001E	
Tested by (+ signature)	Elvis Chen	Uvis chen Coco Vr
Approved by (+ signature)	Coco Li	Coco Vr
Date of issue	2022-12-07	
Testing laboratory	Shenzhen NTEK Testing Te	echnology Co., Ltd.
Address	1/F, Building E, Fenda Scier Street, Bao'an District, Sher	nce Park, Sanwei Community, Xixiang nzhen 518126P.R. China
Testing location	Same as above	
Applicant's name:	DOKE COMMUNICATION ((HK) LIMITED
Address	RM 1902 EASEY COMM BI WANCHAI HK CHINA	LDG 253-261 HENNESSY ROAD
Test specification:		
Standard:	☐ IEC 62368-1:2014 (Seco ⊠ EN 62368-1:2014+A11:2	
Test procedure	CE Scheme	
Non-standard test method	N/A	
TRF template used	IECEE OD-2020-F1:2021, E	d.1.4
Test Report Form No	IEC62368_1D	
Test Report Form(s) Originator:	UL(US)	
Master TRF	Dated 2022-04-14	
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Test Item description	Smart phone	
Trade Mark(s)	Blackview	
Manufacturer	Shenzhen DOKE Electronic 801, Building3, 7th Industria Guangming District, Shenzh	I Zone, Yulv Community, Yutang Road,
Model/Type reference	BV9200	
Ratings	15.0V3.0A or 20.0V	

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adapter)

or 3.87Vdc, 5000mAh, 19.35Wh(Supplied by rechargeable Liion battery)

Remark: The Smart phone is supplied by an external GaN Fast Charger, and charger is sold with the smart phone by as-shipped. The GaN Fast attached to the smart phone connection has two charging agreements: PPS(3.3V-21.0V-3.15A) and 5.0V-3.0A

NTEK 北测

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Unless otherwise indicated, all tests were conducted at

Shenzhen NTEK Testing Technology Co., Ltd. Building C, Fenda Science Park, Sanwei, Xixiang, Bao'an District, Shenzhen, Guangdong, China

Testing location:

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

Attachment 1: 10 pages (Nation differences) Attachment 2: 7 pages (Enclosure)

Summary of testing:

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

Clause(s)	Test(s)
4.1.15 & Annex F & F.3.10	Marking durability test
5.2	Classification of electrical energy sources
5.4.1.4, 9.3, B.1.5, B.2.6	Temperature test
6.2.2	Electrical power sources (PS) measurements for classification
6.2.3.2	Determination of resistive PIS
Annex B.2.5	Input test
Annex B.3, B.4	Abnormal operating and fault condition test
Annex M	Battery Tests
Annex Q.1	Circuits intended for interconnection with building wiring (LPS)
Annex T.4	Steady force test
Annex T.7	Drop tests
Annex T.8	Stress relief test

Summary of compliance with National Differences (List of countries addressed):

EU Group Differences

EU=European.

 \boxtimes The product fulfils the requirements of _ EN 62368-1:2014+A11:2017_ (insert standard number and edition and delete the text in parenthesis or delete the whole sentence, if not applicable)



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Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Remark:

- The Manufacturer or import, should indicate their name and address on product label and package.
 The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.
- The CE marking and WEEE symbol should be at least 5.0 mm and 7.0 mm respectively in height.

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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 ⊠ other: Not directly connect to the mains
Considered current rating of protective device as part of building or equipment installation	N/A (Not directly connected to mains) Installation location: building; equipment
Equipment mobility:	 M movable ☐ hand-held M 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: Not directly connect to the mains
Class of equipment:	Class I Class II Class II Class II Class II Not classifed
Access location:	☐ restricted access area
Pollution degree (PD):	□ PD 1
Manufacturer's specified maxium operating ambient:	_25_°C(For charging with AC power adapter mode) _40_°C(For battery discharging mode)
IP protection class:	□ IPX0 ⊠ IP_68
Power Systems:	⊠ TN □ TT □ IT V ∟-∟; □ dc mains □ N/A
Altitude during operation (m):	⊠ 2000 m or less □ m
Altitude of test laboratory (m)	□ 2000 m or less

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Mass of equipment (kg)	: .	Approx. 0.311_ kg	·	
Possible test case verdicts:	* ~			2
- test case does not apply to the test	t object: N/A			
test object does meet the requirem	nent P (Pa	iss)		
- test object does not meet the requi	· ·			
Testing				
Date of receipt of test item		-10-19		
Date (s) of performance of tests				*
General remarks:				
'(See Enclosure #)" refers to additiona '(See appended table)" refers to a tabl Throughout this report a	e appended to the repo	rt.	tor.	
Mihan differences evicts they shall b	a identified in the Ca			
When differences exist; they shall b Name and address of factory (ies)				
	t the	4		5
General product information and ot	ther remarks:		4	
General product information and ot Product Description –	-	* 1		
 Product Description – The product is a Smart phone intertechnology equipment, which supple502EC00). (Recognized as ES The Smart phone is supplied by a by as-shipped. The GaN Fast attar PPS (3.3V-21.0V==3.15A) and 5 The product was submitted and erby the manufacturer's specification 	ended to be used for au plied by a certified ada 1, PS2, see table 4.1.2 in external GaN Fast C ached to the smart phor .0V===3.0A. valuated for use at the n of: For charging with For battery discha	pter according to EN for more details). harger, and charger in ne connection has two maximum ambient te AC power adapter ma arging mode:40°C	IEC 62368-1. (Model: s sold with the smart p o charging agreements mperature (Tma) perm ode: 25°C	ohone s: nittec
 Product Description – The product is a Smart phone intertechnology equipment, which supple502EC00). (Recognized as ES The Smart phone is supplied by a by as-shipped. The GaN Fast attar PPS (3.3V-21.0V3.15A) and 5 The product was submitted and erby the manufacturer's specification Information of Rechargeable Li-ion (see table 4.1.2 for more detail) The manufacturer specified higher 	ended to be used for au plied by a certified ada 1, PS2, see table 4.1.2 in external GaN Fast C ached to the smart phor .0V==-3.0A. valuated for use at the n of: For charging with For battery dischant n Battery: (model: Li55 st charging temperatur	pter according to EN for more details). harger, and charger in ne connection has two maximum ambient te AC power adapter marging mode:40°C 6578JLY, rating: 3.87 re: 60°C	IEC 62368-1. (Model: s sold with the smart p o charging agreements mperature (Tma) perm ode: 25°C	ohone s: nittec
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ENERGY SOURCE IDENTIFICATION AND CLASSIFICAT	ION TABLE:
(Note 1: Identify the following six (6) energy source forms to (Note 2: The identified classification e.g., ES2, TS1, should on the body or its ability to ignite a combustible material. A worse case classification e.g. PS3, ES3.	be with respect to its ability to cause pain or injury
Electrically-caused injury (Clause 5):	
(Note: Identify type of source, list sub-assembly or circuit d classification) Example: +5 V dc input	esignation and corresponding energy source ES1
Source of electrical energy	Corresponding classification (ES)
Input circuit	ES1
All the internal circuit	ES1
Electrically-caused fire (Clause 6):	
(Note: List sub-assembly or circuit designation and corresp Example: Battery pack (maximum 85 watts):	onding energy source classification) PS2
Source of power or PIS	Corresponding classification (PS)
Input circuit	PS2 (Resistive PIS)
Internal circuits	PS2 (Resistive PIS)
Battery pack/cell output	PS2 (Resistive PIS)
Injury caused by hazardous substances (Clause 7) (Note: Specify hazardous chemicals, whether produces oz part of the component evaluation.) Example: Liquid in filled component	
	Glycol
Source of hazardous substances	Corresponding chemical
	-
Source of hazardous substances	Corresponding chemical Complied with annex M
Source of hazardous substances Battery pack Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. &	Corresponding chemical Complied with annex M corresponding MS classification based on Table 35.)
Source of hazardous substances Battery pack Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit	Corresponding chemical Complied with annex M corresponding MS classification based on Table 35.) MS2
Source of hazardous substances Battery pack Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy	Corresponding chemical Complied with annex M corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS)
Source of hazardous substances Battery pack Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts	Corresponding chemical Complied with annex M corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 ergy source classification based on type of part,
Source of hazardous substances Battery pack Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding en location, operating temperature and contact time in Table 38	Corresponding chemical Complied with annex M corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 ergy source classification based on type of part,
Source of hazardous substances Battery pack Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding en location, operating temperature and contact time in Table 38 Example: Hand-held scanner – thermoplastic enclosure	Corresponding chemical Complied with annex M corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 ergy source classification based on type of part, 3.) TS1
Source of hazardous substances Battery pack Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding en location, operating temperature and contact time in Table 38 Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy	Corresponding chemical Complied with annex M corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 MS1 ergy source classification based on type of part, B.) TS1 Corresponding classification (TS) TS1
Source of hazardous substances Battery pack Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding en location, operating temperature and contact time in Table 38 Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy All accessible parts Radiation (Clause 10) (Note: List the types of radiation present in the product and the	Corresponding chemical Complied with annex M corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 MS1 ergy source classification based on type of part, S.) TS1 Corresponding classification (TS) TS1 the corresponding energy source classification.)
Source of hazardous substances Battery pack Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding en location, operating temperature and contact time in Table 38 Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy All accessible parts Radiation (Clause 10) (Note: List the types of radiation present in the product and the Example: DVD – Class 1 Laser Product	Corresponding chemical Complied with annex M Corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 ergy source classification based on type of part, B.) TS1 Corresponding classification (TS) TS1 the corresponding energy source classification.) RS1

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				GY SOURC				
ndicate w	which energ	gy sources	are included in	the energy so	ource diagram	n. Insert diag	ram below	
					4			
		4	🛛 ES 🛛 🖾 P	S 🛛 MS	🖂 TS			
(5								
(F	Keter to En	IERGI SU	URCE INDENT	IFICATION A	ND CLASSI	FICATION I	ABLE for D	ETAIL.)
	.[Ç	•				

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OVERVIEW OF EMPLOYED SAFE	GUARDS					
Clause	e Possible Hazard					
5.1	Electrically-caused injury					
Body Part	Energy Source	Safeguards				
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)		
Ordinary person	ES1: All the circuit	N/A	N/A	N/A		
6.1	Electrically-caused fire					
Material part	Energy Source		Safeguards			
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced		
PCB	PS2	See 6.3	V-1 or better	N/A		
Enclosure	PS2	See 6.3	V-0	N/A		
Battery pack	PS2	See 6.3	V-0	🔗 N/A		
Other combustible components / material	PS2	See 6.3	See 6.4.5	N/A		
7.1	Injury caused by hazardous	substances				
Body Part	Part Energy Source			Safeguards		
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced		
Battery pack	Complied with annex M	N/A	N/A	🕒 N/A 🔨		
8.1	Mechanically-caused injury		I			
Body Part	Energy Source	Safeguards				
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)		
Ordinary person	MS1: Sharp edges and corners of accessible parts	N/A	N/A	N/A		
Ordinary person	MS1: Product mass	N/A 💎	N/A	N/A		
9.1	Thermal Burn	1	1			
Body Part	Energy Source		Safeguards			
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced		
Ordinary person	TS1: Accessible parts	N/A	N/A	N/A		
10.1	Radiation	1	1			
Body Part	Energy Source		Safeguards			
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced		
Ordinary person	RS1: Flash LED	N/A	N/A	🔨 N/A 🏑		
Ordinary person	RS2: Acoustic(Type-C interface)	See 10.6.4	N/A	N/A		

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Supplementary Information:

- (1) See attached energy source diagram for additional details.
- (2) "N" Normal Condition; "A" Abnormal Condition; "S" Single Fault

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Clause	Requirement + Test	Result - Remark	Verdict
	× ~ ~		Ċ.
4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	AT AN	P
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	P
4.1.3	Equipment design and construction	Evaluation of safeguards regarding limiting the outputs to fulfill ES1 and protection in regard to risk of spread of fire, mechanical and thermal burn injury considered.	P
4.1.15	Markings and instructions	: (See Annex F)	Р
4.4.4	Safeguard robustness		P
4.4.4.2	Steady force tests	: (See Annex T.4)	Р
4.4.4.3	Drop tests	: (See Annex T.7)	Р
4.4.4.4	Impact tests	:	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests		N/A
4.4.4.6	Glass Impact tests		N/A
4.4.4.7	Thermoplastic material tests		N/A
4.4.4.8	Air comprising a safeguard	: (See Annex T.8)	Р
4.4.4.9	Accessibility and safeguard effectiveness	All safeguard remain effective	Р
4.5	Explosion	No explosion	Р
4.6	Fixing of conductors	Class III equipment	N/A
4.6.1	Fix conductors not to defeat a safeguard	*	N/A
4.6.2	10 N force test applied to		N/A
4.7	Equipment for direct insertion into mains socker outlets	t - No such type equipment	N/A
4.7.2	Mains plug part complies with the relevant standard	* *	N/A
4.7.3	Torque (Nm)		N/A
4.8	Products containing coin/button cell batteries	No such batteries	N/A
4.8.2	Instructional safeguard	4	N/A
4.8.3	Battery Compartment Construction		N/A
	Means to reduce the possibility of children		

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Clause	Requirement + Test	Result - Remark	Verdict
			- É
	removing the battery		
4.8.4	Battery Compartment Mechanical Tests:		N/A
4.8.5	Battery Accessibility		N/A
4.9	Likelihood of fire or shock due to entry of conductive object	No opening	N/A
5	ELECTRICALLY-CAUSED INJURY		P
5.2.1	Electrical energy source classifications:	EUT is supplied by approved adapter and battery pack that output voltage is below 60 Vdc and no boost circuits inside EUT. All circuits are classified as ES1.	Р
5.2.2	ES1, ES2 and ES3 limits	(See appended table 5.2)	P
5.2.2.2	Steady-state voltage and current	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits		N/A
5.2.2.4	Single pulse limits		N/A
5.2.2.5	Limits for repetitive pulses:		N/A
5.2.2.6	Ringing signals	No such signals.	N/A
5.2.2.7	Audio signals:	(See Clause E.1)	Р
5.3	Protection against electrical energy sources	All circuits considered ES1	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	and and	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Ref. A.	N/A
5.3.2.2	Contact requirements	-	N/A
<u> </u>	a) Test with test probe from Annex V		N/A
	b) Electric strength test potential (V):		N/A
Ļ	c) Air gap (mm):	* 5	N/A
5.3.2.4	Terminals for connecting stripped wire	- J	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:	6	N/A
5.4.1.4	Maximum operating temperature for insulating materials	A ANT A	N/A
5.4.1.5	Pollution degree:		—
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
			- É
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions	<u> </u>	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:		N/A
5.4.1.10.3	Ball pressure:	F 2 F	N/A
5.4.2	Clearances		N/A
5.4.2.2	Determining clearance using peak working voltage		N/A
5.4.2.3	Determining clearance using required withstand voltage:	ALC P P	N/A
A.C.	a) a.c. mains transient voltage		
	b) d.c. mains transient voltage:		
	c) external circuit transient voltage	St St F	
S.C.	d) transient voltage determined by measurement		
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	the set	N/A
5.4.2.5	Multiplication factors for clearances and test voltages:		N/A
5.4.3	Creepage distances:	Ke -	N/A
5.4.3.1	General		N/A
5.4.3.3	Material Group		
5.4.4	Solid insulation		N/A
5.4.4.2	Minimum distance through insulation:	7 2	N/A
5.4.4.3	Insulation compound forming solid insulation	4	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints	No such construction within the EUT	N/A
5.4.4.6	Thin sheet material	No such material 🔔 🛛 🎸	N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		N/A
1	Number of layers (pcs):	R C	N/A
5.4.4.6.3	Non-separable thin sheet material		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
		<u> </u>	
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	at what far	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:	1 2 2	N/A
5.4.5	Antenna terminal insulation	K S	N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
X	Insulation resistance (MΩ):	F 2 6	
5.4.6	Insulation of internal wire as part of supplementary safeguard	the second se	N/A
5.4.7	Tests for semiconductor components and for cemented joints	1 4 4 A	N/A
5.4.8	Humidity conditioning		N/A
Ч,	Relative humidity (%):		_
	Temperature (°C):		
4	Duration (h):	~ ~ ~	
5.4.9	Electric strength test:	L. C.	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	No connection to external circuits with transient voltage.	N/A
5.4.10.1	Parts and circuits separated from external circuits	5	N/A
5.4.10.2	Test methods	F	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:	2 4	N/A
5.4.11	Insulation between external circuits and earthed circuitry		N/A
5.4.11.1	Exceptions to separation between external circuits and earth	ALC E	N/A
5.4.11.2	Requirements	L &	N/A
Ç	Rated operating voltage U _{op} (V):		_
	Nominal voltage U _{peak} (V):		
1	Max increase due to variation U _{sp} :	R	
	Max increase due to ageing Usa		

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Clause	Requirement + Test	Result - Remark	Verdict
			é
4	U _{op} = U _{peak} + U _{sp} + U _{sa} :		
5.5	Components as safeguards	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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		N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays		N/A
5.5.6	Resistors		N/A
5.5.7	SPD's	A 4 4	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	t at at	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable	the the the	N/A
5.6	Protective conductor	1 and	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 (mm ²):	~ ~	
5.6.4 🔨	Requirement for protective bonding conductors	r t	N/A
5.6.4.1	Protective bonding conductors		N/A
	Protective bonding conductor size (mm ²):	H KK T	
	Protective current rating (A)		
5.6.4.3	Current limiting and overcurrent protective devices	t star	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement		N/A
4	Conductor size (mm ²), nominal thread diameter (mm).	A SA A	N/A
5.6.5.2	Corrosion	ST Ì	N/A
5.6.6	Resistance of the protective system		N/A
5.6.6.1	Requirements		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
Clause		A Tresult - Tremark	Verdict
5.6.6.2	Test Method Resistance (Ω):	At St	N/A
5.6.7	Reliable earthing	X X	N/A
5.7	Prospective touch voltage, touch current and prote	ective 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 prospective touch voltage	1	N/A
5.7.3 🤝	Equipment set-up, supply connections and earth connections	t the	N/A
	System of interconnected equipment (separate connections/single connection)		
4	Multiple connections to mains (one connection at a time/simultaneous connections)		
5.7.4	Earthed conductive accessible parts		N/A
5.7.5	Protective conductor current	1	N/A
	Supply Voltage (V)		
	Measured current (mA)		
	Instructional Safeguard:		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	At At the	N/A
5.7.7	Summation of touch currents from external circuits		N/A
	a) Equipment with earthed external circuits Measured current (mA)	4	N/A
4	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	t stat	N/A
6	ELECTRICALLY- CAUSED FIRE		Р
5.2	Classification of power sources (PS) and potential i	gnition sources (PIS)	P
6.2.2	Power source circuit classifications		P
6.2.2.1	General		Р
6.2.2.2	Power measurement for worst-case load fault :	(See appended table 6.2.2)	P
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	P P
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		N/A
6.2.3	Classification of potential ignition sources	* * * *	Р

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Clause	Requirement + Test	Result - Remark	Verdict
Clause	Trequirement + rest	- Result - Remark	Verdict
6.2.3.1	Arcing PIS:	All circuits voltage less than 50V	N/A
6.2.3.2	Resistive PIS:	All circuits inside enclosure is claimed as Resistive PIS	P
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		N/A
6.4	Safeguards against fire under single fault conditions		Р
6.4.1	Safeguard Method	Method of "control of fire spread" is used. Fire enclosure provided.	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
*	Special conditions if conductors on printed boards are opened or peeled	LAND LAND P	
6. <mark>4</mark> .3.3	Single Fault Conditions :	4	N/A
	Special conditions for temperature limited by fuse	4	N/A
6.4.4	Control of fire spread in PS1 circuits	+	N/A
6.4.5	Control of fire spread in PS2 circuits	K K K	Р
6.4.5.2	Supplementary safeguards	(See appended tables 4.1.2 and Annex G) - Printed boards are rated minimum V-1.	P
	with with with with	 V-1. All components and combustible materials other than small parts are either rated at least V-2 or mounted on material with rating minimum V-1. Battery pack: complying with IEC/EN 62133-2:2017. Wire insulation and tubing complied with clause 6.5. Fire enclosure rated V-0 used. 	
6.4.6	Control of fire spread in PS3 circuit	L &	N/A
6.4.7	Separation of combustible materials from a PIS		N/A
5.4.7.1	General		N/A
6.4.7.2	Separation by distance		N/A
5.4.7.2 6.4.7.3			11/7

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.8	Fire enclosures and fire barriers	See below	Р
5.4.8.1	Fire enclosure and fire barrier material properties	t s	Р
5.4.8.2.1	Requirements for a fire barrier	No fire barrier.	N/A
6.4.8.2.2	Requirements for a fire enclosure		P
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 Fire enclosure opening	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)	the for the	N/A
REF	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):	No doors or covers.	N/A
5.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating		N/A
3.5	Internal and external wiring		N/A
5.5.1	Requirements	The internal wire are complied to UL758 standard, which test method and testing condition equal to IEC/EN 60695-11-2	N/A
6.5.2	Cross-sectional area (mm ² ):	See table 4.1.2	
6.5.3	Requirements for interconnection to building wiring	+ +	N/A
6.6	Safeguards against fire due to connection to additional equipment	and street	N/A
	External port limited to PS2 or complies with Clause Q.1	× ~	N/A
~			5
7	INJURY CAUSED BY HAZARDOUS SUBSTANC	ES	Р
7.2	Reduction of exposure to hazardous substances	No hazardous chemical within the equipment	N/A
7.3	Ozone exposure	No Ozone production within the equipment	N/A
7.4	Use of personal safeguards (PPE)		N/A
	Personal safeguards and instructions:	S. A	
7.5	Use of instructional safeguards and instructions		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
			2
	Instructional safeguard (ISO 7010)		
7.6	Batteries	(See appended tables Annex M)	Р
		<u> </u>	_
8	MECHANICALLY-CAUSED INJURY		₽
8.1	General	Mass less than 7kg, No moving parts in the equipment – see below regarding edges and corners.	P
8.2	Mechanical energy source classifications	MS1: Equipment mass MS1:Sharp edges and corners of equipment	Р
8.3	Safeguards against mechanical energy sources		Р
8.4	Safeguards against parts with sharp edges and corners	Edges and corners of the enclosure are rounded.	P
8.4.1	Safeguards	- <u>-</u>	N/A
8.5	Safeguards against moving parts	No moving parts.	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	the state of the state	N/A
8.5.2	Instructional Safeguard:	5 7	
8.5.4	Special categories of equipment comprising moving parts	- Ster	N/A
8.5.4.1	Large data storage equipment		N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	star at	N/A
8.5.4.2.1	Safeguards and Safety Interlocks		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
8.5.5.2	High Pressure Lamp Explosion Test		N/A
8.6	Stability		N/A
8.6.1	Product classification	MS1	N/A
Ŕ	Instructional Safeguard	Not required	_
8.6.2	Static stability		N/A
8.6.2.2	Static stability test	~	N/A
<u> </u>	Applied Force		

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Clause	Requirement + Test	Result - Remark	Verdict
			Ŕ
8.6.2.3	Downward Force Test		N/A
8.6.3	Relocation stability test		N/A
4	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		N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	+ sile fr	N/A
8.7.2	Direction and applied force		N/A
8.8	Handles strength	No handles.	N/A
8.8.1	Classification	A 4 4	N/A
8.8.2	Applied Force	4	N/A
8.9	Wheels or casters attachment requirements	No wheels or casters.	N/A
8.9.1	Classification		N/A
8.9.2	Applied force	5 7	_
8.10	Carts, stands and similar carriers	No carts or stands or other carriers.	N/A
8.10.1	General	. 4	N/A
8.10.2	Marking and instructions	4	N/A
L &	Instructional Safeguard:	K Z A	_
8.10.3	Cart, stand or carrier loading test and compliance	+ 5	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	Not rack mounted.	N/A
8.11.1	General		N/A
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	<u> </u>	N/A
8.12	Telescoping or rod antennas	No rod antennas.	N/A
	Button/Ball diameter (mm):		

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. 4	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	1		Č,
9	THERMAL BURN INJURY		P
9.2	Thermal energy source classifications	Enclosure is classed as TS1. Internal circuits and parts are claimed as TS3.	Р
9.3	Safeguard against thermal energy sources	Enclosure is used as safeguard.	Р
9.4	Requirements for safeguards		Р
9.4.1	Equipment safeguard		Р
9.4.2	Instructional safeguard:		N/A

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification	RS1: Flash LED RS2: Acoustic	P
10.3	Protection against laser radiation	No such radiation generated from the equipment.	N/A
	Laser radiation that exists in the equipment:		_
4	Normal, abnormal, single-fault	Nº S ^r S	N/A
	Instructional safeguard:		
5	Tool:	5	
10.4	Protection against visible, infrared, and UV radiation	RS1	Р
10.4.1	General	Risk Group 1	Р
10.4.1.a)	RS3 for Ordinary and instructed persons:		N/A
10.4.1.b)	RS3 accessible to a skilled person:	4	N/A
- Arth	Personal safeguard (PPE) instructional safeguard	t dt	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:		N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:	× ~	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque:	Safeguard is not required.	N/A
10.4.1.f)	UV attenuation:	No UV.	N/A
10.4.1.g)	Materials resistant to degradation UV	No UV.	N/A
10.4.1.h)	Enclosure containment of optical radiation:	No required.	N/A
10.4.1.i)	Exempt Group under normal operating conditions:	At AND T	N/A
10.4.2	Instructional safeguard:	5	N/A
10.5	Protection against x-radiation	No such x-radiation generated from the equipment.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10.5.1	X- radiation energy source that exists equipment:		N/A
	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards	<u> </u>	N/A
	Instructional safeguard for skilled person		N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	at sat a	_
	Abnormal and single-fault condition		N/A
	Maximum radiation (pA/kg)		N/A
10.6	Protection against acoustic energy sources	+ 5 4	Р
10.6.1	General		Р
10.6.2	Classification	RS2	Р
	Acoustic output, dB(A):	1 4 X	N/A
	Output voltage, unweighted r.m.s	FM mode: Maximum volume: Right: 140.0mV; Left: 140.0mV Warning: Right: 24.0mV; Left: 24.0mV	P
<u>ب</u> ج	et stat stat	Music mode: Maximum volume: Right:100.0mV; Left: 100.0mV Warning: Right: 18.0mV; Left: 18.0mV	AN AN
10.6.4	Protection of persons		Р
A.C.	Instructional safeguards	1. Symbol ,	P
	with with with with	2. "high sound pressure" or equivalent wording; 3. "hearing damage risk" or equivalent wording; 4. "do not listen at high volume levels for long periods" or equivalent wording.	
A.	Equipment safeguard prevent ordinary person to RS2:	Warning: "Listening at high volume for long periods may damage your hearing" will appear when the sound exceeds RS1	—
4	Means to actively inform user of increase sound pressure:	Element 2 provided and the complete warning in the instruction manual provided	—
	Equipment safeguard prevent ordinary person to RS2	See above	

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Clause	Requirement + Test	Result - Remark	Verdict
			- 2
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	the set of	N/A
10.6.5.1	Corded passive listening devices with analog input		N/A
	Input voltage with 94 dB(A) <i>L_{Aeq}</i> acoustic pressure output:	t at sin	
10.6.5.2	Corded listening devices with digital input	(x	N/A
4	Maximum dB(A)		_
10.6.5.3	Cordless listening device		N/A
¥	Maximum dB(A)	F 2 7	
3	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND	NORMAL OPERATING	F P
3.2	Normal Operating Conditions	4	Р
3.2.1	General requirements:	(See summary of testing and appended table)	P
1	Audio Amplifiers and equipment with audio amplifiers:	(See annex E)	Р
3.2.3	Supply voltage and tolerances		N/A
3.2.5	Input test:	(See appended table B.2.5)	Р
3.3	Simulated abnormal operating conditions		Р
3.3.1	General requirements:	(See appended table B.3)	Р
3.3.2	Covering of ventilation openings		N/A
3.3.3	D.C. mains polarity test	Supplied by an approved adapter	N/A
3.3.4	Setting of voltage selector:	No voltage selector	N/A
3.3.5 💉	Maximum load at output terminals	(See appended table B.3)	P
3.3.6	Reverse battery polarity	At S	N/A
3.3.7	Abnormal operating conditions as specified in Clause E.2.	(See appended table B.3)	P
3.3.8	Safeguards functional during and after abnormal operating conditions	t state	N/A
3.4	Simulated single fault conditions		Р
3.4.2	Temperature controlling device open or short- circuited	¢	N/A
3.4.3	Motor tests	(See appended table B.3)	Р
3.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature		N/A
3.4.4	Short circuit of functional insulation		Р

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Clause	Requirement + Test	Result - Remark	Verdict
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards used	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	Class 1 and Class 2 energy sources were within limits during and after single fault conditions.	P
B.4.9	Battery charging under single fault conditions :	(See appended table M)	Р
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	No UV generated from the equipment	N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test	A A	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	- <b>L</b>	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	Р
E.1	Audio amplifier normal operating conditions		Р
X	Audio signal voltage (V):	(See appended table B.2.5)	
5	Rated load impedance (Ω):	8Ω 🖌	
E.2	Audio amplifier abnormal operating conditions	(See appended table B.3)	Р
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements	See below	Р

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Clause	Requirement + Test	Result - Remark	Verdict
		K A	
~ <b>L</b>	Instructions – Language:	Instructions in English are reviewed.	_
2	Letter symbols and graphical symbols		P
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027- 1.	P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The marking is located on the enclosure of the equipment and is easily visible	P
F.3.2	Equipment identification markings		P
F.3.2.1	Manufacturer identification:	See copy of marking plate	—
F.3.2.2	Model identification:	See model list for details	
F.3.3	Equipment rating markings	t t	Р
F.3.3.1	Equipment with direct connection to mains	The equipment supplied by an approved adapter	N/A
F.3.3.2	Equipment without direct connection to mains		Р
F.3.3.3	Nature of supply voltage	Not directly connected to mains	—
F.3.3.4	Rated voltage	See user manual	
F.3.3.5	Rated frequency		
F.3.3.6	Rated current or rated power	See user manual	
3.3.7	Equipment with multiple supply connections	4	N/A
=.3.4	Voltage setting device		N/A
F.3.5 🤝	Terminals and operating devices	See below.	Р
F.3.5.1	Mains appliance outlet and socket-outlet markings	No such devices on the equipment.	N/A
F.3.5.2	Switch position identification marking	No such switch on the equipment.	N/A
F.3.5.3	Replacement fuse identification and rating markings:	No such components	N/A
=.3.5.4	Replacement battery identification marking:	See Clause M.10	P P
F.3.5.5	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification	at she	N/A
F.3.6.1	Class I Equipment	<u></u>	N/A
F.3.6.1.1	Protective earthing conductor terminal		N/A
F.3.6.1.2	Neutral conductor terminal		N/A

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•	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.1.3	Protective bonding conductor terminals		N/A
F.3.6.2	Class II equipment (IEC60417-5172)		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	the state	N/A
F.3.7	Equipment IP rating marking	IPX0	
F.3.8	External power supply output marking		N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
F.3.10	Test for permanence of markings	The silk-screened marking was subjected to the permanence of marking test. The marking 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 the marking. The marking did not fade. After each test, the marking remained legible.	P
F.4	Instructions	L.	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	41	N/A
	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	s at artist	N/A
	f) Protective earthing employed as safeguard	7 2	N/A
A.C.	g) Protective earthing conductor current exceeding ES 2 limits	di .	N/A
	h) Symbols used on equipment		N/A
.t	i) Permanently connected equipment not provided with all-pole mains switch	4	N/A
4	j) Replaceable components or modules providing safeguard function	t stat to	N/A
F.5	Instructional safeguards		Р
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	the state	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G	COMPONENTS		P
G.1	Switches		N/A
G.1.1			
G.1.1 G.1.2	General requirements	No switch used	N/A N/A
G.1.2 G.2	Ratings, endurance, spacing, maximum load		
	Relays	No valav mad	N/A
G.2.1	General requirements	No relay used	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
G.3.1	Thermal cut-offs	No thermal cut-offs used	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	4	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	t of st	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	AT AT C	N/A
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691		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 ( $\Omega$ ). :		
G.3.3	PTC Thermistors		N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to	o G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	A A	N/A
G.3.5.2	Single faults conditions		N/A
G.4	Connectors		P
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration	Not mains connector	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	AT A	Р
G.5	Wound Components		N/A
G.5.1	Wire insulation in wound components		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
			- é
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	F 2 6	N/A
G.5.3	Transformers		N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1):	to the state	N/A
~	Position		
K	Method of protection:	4	_
G.5.3.2	Insulation		N/A
	Protection from displacement of windings	A A F	
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	X X X	N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements	Vibration motor used	Р
	Position		—
G.5.4.2	Test conditions		₹N/A
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test		N/A
A.C.	Test duration (days)	, t	
G.5.4.5	Running overload test for d.c. motors in secondary circuits		N/A
G.5.4.5.2	Tested in the unit		N/A
	Electric strength test (V):	t s	
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h):		N/A
¥	Electric strength test (V):		
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	t to the the	Р

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Clause	Requirement + Test	Result - Remark	Verdict
			Verdior
G.5.4.6.2	Tested in the unit	A 2	Р
X	Maximum Temperature:	1 5	N/A
	Electric strength test (V):		N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):	+ of sta	Р
	Electric strength test (V):	10 A	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	F 2 7	N/A
- Alexandre	Operating voltage		
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation	2	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
×	Туре	5 7	
A.C.	Rated current (A):	<u>A</u>	
	Cross-sectional area (mm²), (AWG):	4	
G.7.2	Compliance and test method	A R	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	still the state	N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	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 :		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements	~	N/A
G.7.5.2	Mass (g)	A 4	
-	Diameter (m):	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	Temperature (°C):	5	—
G.7.6	Supply wiring space		N/A
G.7.6.2	Stranded wire		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.7.6.2.1	Test with 8 mm strand		N/A
G.7.0.2.1	Varistors		N/A
G.8.1			
G.8.1	General requirements		N/A
	Safeguard against shock		N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test		N/A
G.8.3.3	Temporary overvoltage		N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No IC current limiter provided within the equipment	N/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)	4	—
G.9.1 e)	Manufacturers' defined drift	the state of the s	
G.9.2	Test Program 1		N/A
G.9.3	Test Program 2	2 2	N/A
G.9.4	Test Program 3	L.	N/A
G.10	Resistors	* *	N/A
G.10.1	General requirements	At All	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 coaxial cable	ATTEN AN	N/A
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	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors	4	N/A
G.12	Optocouplers	<u>ک</u> ــــ	N/A
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	stilt still	N/A
	Type test voltage Vini:		

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Clause	Requirement + Test	Result - Remark	Verdict
0.42	Drinted heards		
G.13	Printed boards		P
G.13.1	General requirements		P
G.13.2	Uncoated printed boards		P
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
	Compliance with cemented joint requirements (Specify construction)	t At	-
G.13.5	Insulation between conductors on different surfaces		N/A
2	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.13.6.2a)	Thermal conditioning		N/A
G.13.6.2b)	Electric strength test		N/A
G.13.6.2c)	Abrasion resistance test		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements		N/A
G.15	Liquid filled components		N/A
G.15.1	General requirements		N/A
G.15.2	Requirements		N/A
G.15.3	Compliance and test methods	, A	N/A
G.15.3.1	Hydrostatic pressure test		N/A
G.15.3.2	Creep resistance test		N/A
G.15.3.3	Tubing and fittings compatibility test	4	N/A
G.15.3.4	Vibration test		N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test		N/A
G.15.4	Compliance	- A	N/A
G.16	IC including capacitor discharge function (ICX)	> ــلد	N/A
a)	Humidity treatment in accordance with sc 5.4.8 – 120 hours	At AND T	N/A
o)	Impulse test using circuit 2 with Uc = to transient voltage	4	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	the state of the state	N/A
C2)	Test voltage		
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	t at saint	N/A
D2)	Capacitance:	~ ~	
D3)	Resistance		
н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	Ringing signal is ES1 only, see appended table 5.2.	N/A
H.2 🤝	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal	4	N/A
H.3.1.1	Frequency (Hz)		
H.3.1.2	Voltage (V)		
H.3.1.3	Cadence; time (s) and voltage (V)	<u> </u>	
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	AT SHE	N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)		
J	INSULATED WINDING WIRES FOR USE WITHO	UT INTERLEAVED INSULATION	N/A
	General requirements	F ×	N/A
К	SAFETY INTERLOCKS		N/A
K.1	General requirements	No safety interlocks provided	N/A
K.2	Components of safety interlock safeguard mechanism:		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance:		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

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Clause	Requirement + Test	Result - Remark	Verdict
			- 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:		N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
м	EQUIPMENT CONTAINING BATTERIES AND TH	EIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Requirements		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		Р
	- Excessive discharging rate for any battery		Р
M.3.3	Compliance:	After above test have not created a hazard in the meaning of this standard	Ρ
M.4	Additional safeguards for equipment containing secondary lithium battery		Ρ
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Charging operating limits		Р

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Clause	Requirement + Test	Result - Remark	Verdict
			- É
M.4.2.2a)	Charging voltage, current and temperature:	(See appended table M.4)	
M.4.2.2 b)	Single faults in charging circuitry:	(See appended table M.4)	
M.4.3	Fire Enclosure	Provided	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 🔶	Voltage difference less than 5%	Р
	Charge	Operated normally and all safeguards were effective	Р
	Discharge	Operated normally and all safeguards were effective	Р
M.4.4.4	Charge-discharge cycle test		Р
M.4.4.5	Result of charge-discharge cycle test	Operated normally	Р
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current		Р
M.6.1	Short circuits		Р
M.6.1.1	General requirements	Has been conducted on the battery as part of compliance with IEC 62133-2:2017	Ρ
M.6.1.2	Test method to simulate an internal fault		Р
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method):		Р
M.6.2	Leakage current (mA)		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
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m ³ /s):		

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## NTEK 北测[®]

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Clause	Requirement + Test 🛛 🔨 Result - Rer	mark Verdict
M.8.2.3	Correction factors:	
M.8.2.4	Calculation of distance <i>d</i> (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 (Determination of compliance: inspection, data review; or abnormal testing):: Provided the instruction battery charging, store transportation, and dis recycling.	age and
N	ELECTROCHEMICAL POTENTIALS	N/A
	Metal(s) used:	_
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied	
Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILL INTERNAL LIQUIDS	LAGE OF N/A
P.1	General requirements	N/A
P.2.2	Safeguards against entry of foreign object	N/A
	Location and Dimensions (mm): No such openings.	
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):	

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Clause	Requirement + Test	Result - Remark	Verdict
Chadoo			
P.4.2 b)	Abrasion testing:		N/A
P.4.2 c)	Mechanical strength testing:		N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р
Q.1	Limited power sources		Р
Q.1.1 a)	Inherently limited output		N/A
Q.1.1 b)	Impedance limited output		Р
	- Regulating network limited output under normal operating and simulated single fault condition	(See appended table Q.1 for details.)	Р
Q.1.1 c)	Overcurrent protective device limited output		N/A
Q.1.1 d)	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method	(See table annex Q.1)	Р
Q.2	Test for external circuits – paired conductor cable		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)).		NA/
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):		

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Clause	Requirement + Test	Result - Remark	Verdict
Clause			Verdict
-	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
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady-state power exceeding 4000 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
т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements		Р
Т.2	Steady force test, 10 N	Not applicable.	N/A
Т.3	Steady force test, 30 N	Not applicable.	N/A
Т.4	Steady force test, 100 N	(See appended table T.4)	Р
T.5	Steady force test, 250 N		N/A
Т.6	Enclosure impact test		N/A
	Fall test		N/A
	Swing test		N/A
T.7	Drop test	(See appended table T.7)	P
T.8	Stress relief test	(See appended table T.8)	P
Т.9	Impact Test (glass)		N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A

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. 4	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	7 4		- Ĉ
	Impact energy (J)		
	Height (m)		
T.10	Glass fragmentation test:		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)		
U	MECHANICAL STRENGTH OF CATHODE RAY T AGAINST THE EFECTS OF IMPLOSION	UBES (CRT) AND PROTECTION	N/A
U.1	General requirements	No CRT provided	N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen		N/A
V	DETERMINATION OF ACCESSIBLE PARTS (FIN	GERS, PROBES AND WEDGES)	N/A
V.1	Accessible parts of equipment		N/A
		1	

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Clause	4	Requiremer	nt + Test 🛛 📈		Result	- Remark	Verdict
			<u>x                                    </u>				
4.1.2 TABLE		List of critical con	nponents		6		P
Object / pa	rt No.	Manufacturer/ trademark	Type / model	Technical da	ata	Standard	Mark(s) of conformity ¹
AC Adapter (EU plug)				Output: USB- 5.0V3.0A 9.0V3.0A 12.0V3.0A 15.0V3.0A 20.0V3.25 (PPS) 3.3V-21.0V (66.0W Max) Ambient: 25%	2014+A11:2017 50/60Hz, 1.5A 20tput: USB-C: 5.0V3.0A or 2.0V3.0A or 5.0V3.0A or 5.0V3.25A PPS) 3.3V-21.0V3.15A 66.0W Max)		Report No.: LP22110098 C01-05
Plastic encl	osure	Guangdong Guoli Science And Technology Co Ltd	FRPC	Altitude: 2000 V-0, 80°C, Min 0.8mm thickness		UL 94	UL E464857
PCB	×	Interchangeable	Interchangeable	V-0, 130°C.		UL 796	UL
Rechargeable Li-ion battery		Shenzhenshi Jiuliyuan Electronic Technology Co., LTD	Li556578JLY	3.87V, 5000mAh, 19.35Wh		EC 62133- 2:2017, IEC 62133- 2:2017/AMD1:20 21	TUV Rheinland Report No.: CN22OW35 001 Cert. No.: JPTUV- 141545
USB cable	4	Interchangeable	Interchangeable	24AWG, 30V	′, 80°C	UL758	UL
		ACC AUOUSTIC TECHNOLOGIE S HOLDINGS INC.	SLS0812A-04	8Ω±15%, 1.0	W rated	EN 62368-1	Test with appliance
(Alternative	)	ACC AUOUSTIC TECHNOLOGIE S HOLDINGS INC.	SPS1217H-04- 02	8Ω±10%, 1.0	W rated	EN 62368-1	Test with appliance

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Clause	4	Requiremer	nt + Test	Re	sult - Remark	Verdict
Vibration moto	or	CHONGQING LINGLONG ELECTRONIC CO.,LTD.	10G20F- 070356001- 0151	3.0VDC, 75mA Max 13000±2500 rpm	EN 62368-1	Tested with appliance
LCD panel m	odule	SHENZHEN TXD TECHNOLOGY CO.,LTD	TXDY660JBRP UG-29V3	6.583 inch, Active Area: 68.43(W)x 152.57( 5.5VDC	EN 62368-1	Tested with appliance
Flash LED		Shineon (Beijing ) Technology Co., Ltd	ELCH Series	DC 350mA Exempt Group (IEC 62471) Risk Group 1 (EN 62471)	IEC 62471:2006 EN 62471:2008	Report No.: 10031507 001
Metal enclosu	re	Interchangeable	Interchangeable	Min 1.0mm thickness	EN 62368-1	Tested with appliance

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

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Clause	2	Requirement + Test	Result - Remark	Verdict
				× ~
4.8.4, 4.8.5	es mechanical tests	N/A		
(The follov	ving mechanic	cal tests are conducted in the se	quence noted.)	
4.8.4.2	TABLE: S	tress Relief test		⊘ —
	Part	Material	Oven Temperature (°C)	Comments
	\$ <b>\$</b>	- *	<u> </u>	
4.8.4.3	.8.4.3 TABLE: Battery replacement test			_
Battery pa	art no			
Battery In	stallation/with	drawal	Battery Installation/Removal Cycl	e Comments
5			► 1	
			2	A - 2
			3	
			4	
			5	
			6	-
			8	-
			9	- <
		t s' '	10	-
.8.4.4	TABLE: Dr	op test		
mpact Are	a	Drop Distance	Drop No.	Observations
-			1	<u> -</u>
	1 ×		2	- *
. (			3	
.8.4.5	TABLE: Im	pact 🖉	× × ×	
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments
A	- 7		-	4
Ŕ				
	- *			
.8.4.6	TABLE: C	rush test	A A	
Test	position	Surface tested	Crushing Force (N)	Duration force applied (s)
		-	A - 2	

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4		Str.	IEC 62368-1		~
Clause	1	Requirement + Test		Result - Remark	Verdict
			7		~
					•

4.8.5 TABLE: Lithiu	m coin/button cell batteries	mechanical test result	N/A
Test position	Surface tested	Force (N)	Duration force applied (s)
A 4	- 4		
- ⁻		~ _	4
	<u> </u>		<
Supplementary information:			
		5	

5.2	Table: Classification of electrical energy sources	4	~	Р
5222-8	Steady State Voltage and Current conditions			

	Cumulu	Location (e.g.		P	Parameters		
No.	No. Supply circuit Voltage designation		Test conditions	U (Vrms or Vpk)	l (Apk or Arms)	Hz	ES Class
1	21.0Vdc	Type-C input	Normal	21.0Vrms		DC	ES1
			Abnormal			4	
	A		Single fault – SC/OC		25 ⁰⁰⁻		
2	Full charged	Battery pack	Normal	4.45Vrms	. []	DC	ES1
	battery	output	Abnormal		<u>_</u> _		
Ś			Single fault – SC <del>/OC</del> Battery B- to P-	4.45Vrms	<u> </u>	DC	-Arith
3		Type-C output	Normal	5.13Vrms	<u> </u>	DC	ES1
	battery		Abnormal: Overload	4.96Vrms		DC	, at
			Single fault: SC/ <del>OC</del> U105 pin 1-9	4.22Vrms	(† <u>-</u> <del>-</del>	DC	
	4		Single fault: SC/ <del>OC</del> U225 pin 1-6	5.12Vrms	- stat	DC	× 4

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Report No. STS221018001001E IEC 62368-1 Requirement + Test Result - Remark Verdict Clause 5.2.2.3 - Capacitance Limits Location (e.g. Parameters Supply No. circuit Test conditions ES Class Voltage Capacitance, nF Upk (V) designation) Normal ------Abnormal ___ ___ Single fault -SC/OC 5.2.2.4 - Single Pulses Location (e.g. Parameters Supply No. circuit ES Class Test conditions 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

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. 4			IEC 62368-1					
Clause	Clause Requirement + Test			Result - Remark				
5.4.1.4, 6.3.2, 9.0,	TABLE:	Temperature measurement	ts	*	A.C.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	P	
B.2.6	Supp	ly voltage (V):	Condition	Condition B	Condition C	Æ	_ <u>_</u> _	
	Ambi	ent T _{min} (°C):		<u>_</u>	<i>A</i>	<b>~</b>		
		ent T _{max} (°C):	<u>+ - 3</u>					
		(°C):	See below	See below	See below			
Maximum r	neasured t	emperature T of part/at:		Т (	°C)		Allowed T _{max} (°C)	
PCB near l	J100	A S	64.0	50.0	61.0	Ø - <i>J</i>	130	
PCB near l	PCB near U1200			57.7	61.8		130	
PCB near l	J0306		80.4	52.3	61.2		130	
PCB near T	Гуре-С		45.5	41.1	58.8		130	
Battery boo	ły		34.0	33.5	45.5		Ref.	
Plastic enc	losure insid	de near U1200	59.0	53.4	58.3	2	80	
Plastic enc	losure insid	de near battery	48.8	39.8	55.0		80 5	
Ambient			25.0	25.0	40.0	-		
Accessible	e parts:				4			
Plastic enc	losure outs	ide near U1200	38.5	43.4	38.4	,	48	
Plastic enc	losure outs	ide near battery	44.3	46.6	40.8		48	
Plastic enc	losure outs	ide near Type-C	37.1	35.6	37.1	2	48	
Metal enclo	osure outsi	de near SIM port	35.5	40.6	34.8		48	
Button(plas	stic)		34.1	39.3	33.7	4	48	
Button(met	al)		36.4	37.1	33.4	5	48	
Screen sur	face		34.8	37.4	33.0		48	
Adapter su	rface	·	38.5	44.9			77&	
Ambient		4	25.0	25.0	25.0	<i>.</i>	<u> </u>	

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		IEC 623	368-1				
Clause Require	ment + Test	t	2	Resu	ult - Remarl	<	Verdict
		2					é
Supplementary information:							
Condition A: Off mode, supplied by a	n external A	AC adapte	er, charging	with an er	npty batter	y only.	
Condition B: On mode, charging fully three vertical bar, max				nal AC ada	pter, WiFi o	connected,	playing
Condition C: On mode, supplied by 4 max sound, max bright				/iFi connec	ted, playin	g three vert	ical bar,
&: The external Adapter surface touc	hed occasio	onally for	very short p	periods (>1	s and < 10	) s)	
1. The manufacturer's specified ma	ximum ope	ration tem	perature :				
For charging with AC power ada	oter mode:	25°C					
For discharging mode:40°C 🍝							
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
-					<		2
- 1 - 1			<u></u>	-	2	-	
Supplementary information:							
Supplementary information:	<u>k</u>	·				×	
Note 1: Tma should be considered as	s directed b	y appliabl	e requirem	ent			
Note 2: Tma is not included in asses	sment of To	ouch Temp	peratures (0	Clause 9)			
AT S						¥	<u> </u>
5.4.1.10.2 TABLE: Vicat softening	ı temperatı	ure of the	rmoplastic	s		5	N/A
Penetration (mm)		:		-	<del>,</del> ,		
Object/ Part No./Material			Manufactu radema		T sc	oftening (°C)	
-		7			1	4	
					N .		4

Supplementary information:

--

5.4.1.10.3	TABLE: Ball pre	s		N/A	
Allowed imp	pression diameter	(mm):	≤ 2 mm	5	
Object/Part	No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	meter (mm)
-	4. 2				
		<u> </u>		\$ <del>\$</del>	. 4
Supplement	tary information:				
	<u> </u>	<u> </u>		A CONTRACTOR	

Shenzhen NTEK Testing Technology Co., Ltd.

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			IEC	62368-1				
Clause	Req	uirement +	+ Test		Re	sult - Rema	ark	Verdict
								é.
5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum	Clearance	es/Creepa	ge distance	d .	STEEL	4	N/A
	(cl) and creepage r) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm)²	Required ³ cr (mm)	cr (mm)
		2			+ - ,	¢		
-				<	- ~			Æ
Supplemen	itary information:	•			•			
	e table 5.4.2.4 if this is ovide Material Group							
5.4.2.3	TABLE: Minimum	Clearance	es distanc	es using re	quired with	stand volt	age	N/A
	Overvoltage Categ	jory (OV):		5	5			
A.	Pollution Degree:		1	~				- 3
Clearance	distanced between:	R	Required wi voltag		Required (mm)	cl	Measured o	d (mm)
						2		
- 1-								
	ntary information:							

5.4.2.4 TABLE: Clearances base	ed on electric streng	th test	N/A
Test voltage applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No
- + 5		- 5	- 4
Supplementary information:			

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Dis	stance through insulation	n measureme	ents		N/A
Distance th insulation d		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
		- 4	~		,t-	<u> </u>
_		- 5		7	<u> </u>	
Supplement	tary informatio	n:				
				7		1

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		IEC 62368-1			
Clause	Requirement + Test		25	Result - Remark	Verdict
		4			
5.4.9	TABLE: Electric strength tests				N/A
Test voltage	e applied between:	Voltage sha (AC, DC	ape )	Test voltage (V)	Breakdown Yes / No
Functional:		5			$\langle \langle \rangle \rangle$
		-	X	<u> </u>	
-	$\sim$	* - 5			*
Basic/suppl	ementary:				-
	at st				
- *				4 - L	
Reinforced:				*	
					A - 2
		T.		<u></u>	
Routine Tes	sts: 🔷 📈	-	7		
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	<u> </u>			- C
Supplemen	tary information:				
K.	~ ×	2			

5.5.2.2	TABLE: St	ored discharg	e on capacito	rs		N/A
Supply Volt	age (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification
-	t- 🗸	<u> </u>			4	- *
				- 4		1 - S
۲.	-			-	*	

#### Supplementary information:

X-capacitors installed for testing are:

[] bleeding resistor rating:

[] ICX:

Notes:

A. Test Location:

Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth

B. Operating condition abbreviations:

N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition

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			IEC	62368-1		
Clause	4	Requir	ement + Test	A S	Result - Remark	Verdict
		,L	4			~ ~
5.6.6.2	TABLE: Re	sistance o	f protective condu	ctors and termin	ations	N/A
	Accessible par	t	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
		.L	× - ×		- 2	
		0		-*	A - 4	
-					- 7	-*-
Supplemer	ntary information	on:				
		F K		4		

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive pa	n 🏱	N/A
Supply vo	Itage		—
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)
		2*	A - S
		3	
		4	
		5	
		6	
		8	

#### Supplementary Information:

Notes:

[1] Supply voltage is the anticipated maximum Touch Voltage

[2] Earthed neutral conductor [Voltage differences less than 1% or more]

[3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3

[4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.

[5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

6.2.2 Ta	Table: Electrical power sources (PS) measurements for classification									
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification					
		Power (W) :	.E 🔇		D00t					
Input circuit	<u> </u>	V _A (V) :			PS2* (Declared)					
<u> </u>		I _A (A) :	-	x x	(Deciared)					

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			IEC 62368-1			
Clause	R	equirement + Te	st 🖉 🎽	Result - Remark	Verdict	
	1					
		Power (W) :			PS2	
Internal circuits	- 2	V _A (V) :	/		(Declared)	
		I _A (A) :	- <u>5</u>		(Decentred)	
		Power (W) :	53.40	53.40	F 4	
	Normal condition	V _A (V) :	3.35	3.35	PS2	
Dettery peak	6	I _A (A) :	- 15.94	15.94	×	
Battery pack	Single fault	Power (W) :	30.03	- +		
	Battery B- to	V _A (V) :	3.84	- K	PS2	
	P- SC	I _A (A) :	7.82	4 - 7		
5		Power (W) :	82.58	82.58		
Battery cell output		V _A (V) :	2.96	2.96	PS2	
output		I _A (A) :	27.90	27.90	6	
	4	Power (W) :	7.59	<		
	Normal condition	V _A (V) :	4.22	(	PS1 🗟	
		I _A (A) :	1.80			
	Single fault:	Power (W) :	2.48	<u> </u>		
Type-C	U225 pin 1-	V _A (V) :	4.96		PS1 🔷	
σαιραί	6 SC	I _A (A) :	0.5		<u>ک</u> ۲	
	Single fault:	Power (W) :	2.11			
	U105 pin 1-	V _A (V) :	4.22	~ -	PS1	
	9 SC	I _A (A) :	0.5	÷ <		

Supplementary Information:

(*) Measurement taken only when limits at 3 seconds exceed PS1 limits

* This product was supplied by input voltage 5VDC USB-C port and was classified as PS2 classification.

6.2.3.1	Table: Det	able: 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			
4	4	4				<u> </u>			
2			-						
¥.			4		+ $-$				

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage ( $V_p$ ) and normal operating condition rms current ( $I_{ms}$ ) is greater than 15.

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			IEC 62368-1			
Clause	4	Requirement + Tes	t	Resul	lt - Remark	Verdict
6.2.3.2	Table: Dete	ermination of Potentia	al Ignition Sour	ces (Resistive F	PIS)	P
Circuit Loo	cation (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)	Resistive PIS? Yes/No
All internal circuits/part Type-C circ			At \$	(at - 210	-	Yes*
Supplemen	tary Informati	on:				
A combinati	on of voltmete	er, VA and ammeter IA	may be used ins	tead of a wattme	eter.	

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.

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.

* All internal circuits were considered as resistive PIS.

8.5.5	TABLE: High Pressure Lamp		N/A
Description	1	Values	Energy Source Classification
Lamp type	<u> </u>	<b>~</b>	_
Manufactu	rer:		—
Cat no			_
Pressure (	cold) (MPa):	<u> </u>	MS_
Pressure (	operating) (MPa)	-	MS_
Operating	time (minutes):	- 7	
Explosion	method:		
Max partic	le length escaping enclosure (mm).:	· ~ ~	MS_
Max partic	le length beyond 1 m (mm):		MS_
Overall res	ult:		-
Suppleme	ntary information:		
			<u> </u>

B.2.5	TABL	E: Input tes	st	t.	S.			P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	l fuse (A)	Condition/status
Powered I	oy a GaN	Fast Charg	er, model : QZ	-06502EC0		~		

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				IEC 6	2368-1					
Clause	4	Re	equirement + T	est		Result - I	Result - Remark Ve			
				Ż					Ś	
21VDC	STEF	2.01	3.15	42.01		-		Condition Battery 7.82A	on A current:	
21VDC		2.12	3.15	44.52		- silt		Condition Battery 6.94A	on B current:	
Powered I	by a DC	power source	e: 5V3A							
5VDC		2.256	3.0	11.28	- Stat	Arter	A.	Condition Battery 2.774A	current:	
5VDC		2.344	3.0	11.72		A COL	A.	Condition Battery 1.451A	current:	
4.45V (Fully charged battery)	-	Battery dis-charge current: 1.29	st - Z	5.741			¢t	Condition Battery 1.29A	on C current:	
Suppleme	ntary inf	ormation:					1			
1. The m was o Condition Condition	easured perated A: Off m B: On m three	l input power to produce th ode, supplied ode, charging	did not exceed e maximum no d by an externa g fully discharg max sound, m	d the marke ormal input al AC adap ged battery nax brightne	ed input rating power. ter, charging by an extern ess.	nould be measing by more than with an empty al AC adapter,	10% whe battery or WiFi conr	nly. nected, p	blaying	

B.3	TABLE: Abno	rmal operati	ing condi	ition tes	ts		x 5		Р
Ambient tem	perature (°C) .	÷.				25, if r	not specificed		
Power source	e for EUT: Mar	nufacturer, m	odel/type,	output	rating:	See co	over page for deta	ails	
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T- couple	Temp. (°C)	Ob	servation
Motor	Locked	3.0VDC	7hr					emit molte no ig wrap and	motor not flames and en metal, nition of ping tissue secloth, no rd.

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		<u></u>		IEC 623	68-1	X	STV	
Clause	4	Requiremer	nt + Test			Re	esult - Remark	Verdict
Speaker (Under condition B)	SC	21VDC	10min					After SC, speaker no voice. No damage, no hazard. Battery, no emission, explosion and chemical leaks. Battery charging current: 6.94A→6.51A
Speaker (Under condition C)	SC	4.45VDC	10min					After SC, speaker no voice. No damage, no hazard. Battery, no emission, explosion and chemical leaks.
Type-C output (Under condition C)	OL	4.45VDC	2hr 38min			See temp. column	PCB near Type-C: 75.7°C Battery cell: 36.8°C Plastic enclosure outside near Type-C: 48.9°C Plastic enclosure outside near U1200: 46.3°C Button (plastic): 38.0°C Button (metal) : 40.9°C Screen surface: 36.6°C Adapter surface: 39.1°C Ambient: 25.0°C	Type-C output max loaded was 1.8A. When loaded to 1.9A, Type-C output shut down immediately, other function operation as normally. Unit turn off when battery is ending. No damage, no hazards. Battery no fire, no leaks, no explosion. Battery cell max. discharging current: 1.29A→2.77A→ 0A

Report No. STS221018001001E

· 7				IEC 623	68-1				
Clause		Requirement + Test		K		Re	Result - Remark		
Type-C output (Under condition C)	SC	4.45VDC	10min	-				Type-C shut dow other fur operatin normally damage hazards no fire, r leaks, n explosio	wn, and nction ng as y, no e, no e. Battery no o
Supplementar	y information	:							
	injury. Colur Clause B.3 t	nn "Abnorma test or "Single	l/Fault." Sj e Fault" the	pecify if en the co	test co	ndition by inc	e energy source dicating "Abnorm B.4.		
Condition A: C	Off mode, sup	plied by an e	xternal AC	C adapte	r, char	ging with an	empty battery o	nly.	
		rging fully dis bar, max sou				xternal AC a	dapter, WiFi con	nected, pla	aying
		oplied by 4.45 ax brightness					ected, playing th	nree vertica	al bar,

Ambient temperature (°C)       25, if not specificed       —         Power source for EUT: Manufacturer, model/type, output rating       See cover page for details       —         Component       Fault       Supply       Test       Fuse       Fuse       T-       Temp.       Observation         No.       Condition       (V)       (ms)       No.       (°C)       Observation	B.4	TABLE: Fault	condition te	ests	1				1	P
Component No.Fault ConditionSupply voltage,Test timeFuse no.Fuse current,T- coupleTemp. (°C)Observation	Ambient te	emperature (°C)				:	25, if r	not specificed	5	
No. Condition voltage, time no. current, couple (°C)	Power sou	rce for EUT: Mai	nufacturer, m	odel/type,	output	rating .:	See co	over page for deta	ails	
			voltage,	time			-	•	Ob	servation

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7		S ^{rv}		IEC 623	68-1	1	Str.	
Clause	<u> </u>	Requireme	nt + Test	A A A A A A A A A A A A A A A A A A A		Re	esult - Remark	Verdict
U1301 pin C1-A4	SC (Over- charge)	21VDC	7hrs			See temp. column	PCB near U0306: 80.7°C Battery cell: 34.7°C Plastic enclosure outside near battery: 45.1°C Plastic enclosure outside near U1200: 47.1°C Button (plastic): 39.5°C Button (metal) : 37.4°C Screen surface: 37.4°C Adapter surface: 37.6°C Ambient: 25.0°C	Unit normal operation, empty battery charged for 7hours. Battery no emission, explosion and chemical leaks. Battery charging current: 7.82A→7.89A
U1305 pin C1-A4	SC	21VDC	10min					After SC, unit operation normally, no damage, no hazards. Battery no fire, no leaks no explosion.
U101 pin C2- A2	SC	21VDC	10min					After SC, unit operation normally, no damage, no hazards. Battery no fire, no leaks no explosion.
U1200 pin A1-G1	SC	21VDC	10min					After SC, unit shut down, recoverable. No damage, no hazards. Battery no fire, no leaks no explosion.
U0306 pin C6-A3	SC	21VDC	10min					After SC, unit shut down, recoverable. No damage, no hazards. Battery no fire, no leaks no explosion.

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7		ST		IEC 623	868-1	X			
Clause	2	Requiremer	nt + Test			Re	esult - Remark	Verdict	
U0306 pin C6-A7	SC	21VDC	10min	-				After SC, unit shut down, recoverable. No damage, no hazards. Batter no fire, no leaks no explosion.	
U1307 pin C6-A3	SC	21VDC	10min					After SC, unit shut down, recoverable. No damage, no hazards. Batter no fire, no leaks no explosion.	
U1307 pin C6-A7	SC	21VDC	10min					After SC, unit shut down, recoverable. No damage, no hazards. Batter no fire, no leaks no explosion.	
Battery B- and P-	SC	21VDC	30min					After SC, unit operation normally, no damage, no hazards. Batter no fire, no leaks no explosion.	
Condition C:		1	1	1	1	1	1	1	
U0306 pin A7-A3	SC	4.45VDC	3hr 42min			See temp. column	PCB near U1200: 59.7°C Battery cell: 34.7°C Plastic enclosure outside near U1200: 48.7°C Plastic enclosure outside near battery: 46.3°C Button (plastic): 41.6°C Button (metal) : 41.3°C Screen surface: 40.9°C Ambient: 25.0°C	After SC, unit operation abnormally. No damage, no hazards. Batter no fire, no leaks no explosion. Battery discharging current: 1.29A→5.2A	

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7				IEC 623	868-1				
Clause	<u> </u>	Requiremer	nt + Test			Re	sult - Remark		Verdict
U1307 pin A7-A3	SC	4.45VDC	10min					opera abnor dama hazar no fire	SC, unit tion mally. No ge, no ds. Battery e, no leaks, plosion.
U225 pin 1-6	SC	4.45VDC	10min					workir norma dama hazar no fire	SC, unit ng ally. No ge, no ds. Battery e, no leaks, plosion.
U105 pin 1-9	SC	4.45VDC	10min					workir abnor dama hazar no fire	SC, unit ng mally. No ge, no ds. Battery e, no leaks, plosion.
U1901 PIN C6-F4	SC	4.45VDC	10min					abnor other workir norma dama hazar no fire	er working mally, function
U1200 pin F1-G1	SC	4.45VDC	10min					opera norma dama hazar no fire	SC, unit tion ally. No ge, no d. Battery e, no leaks, plosion.
U1307 pin A3-A7	SC	4.45VDC	10min					opera norma dama hazar no fire	SC, unit tion ally. No ge, no ds. Battery e, no leaks, plosion.

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7				IEC 623	368-1				
Clause	4	Requireme	nt + Test			Re	esult - Remark		Verdict
Battery B- to P-	SC	4.45VDC	30min					opera dama	, no
Battery pack output "+" to "-"	SC	4.45VDC	30min					Batte	shut down. ry no fire, aks, no sion.
Battery B- and B+	SC	4.45VDC	30min						ry no fire, aks, no sion.
Condition B								·	
U1301 pin C1-A4	SC	21VDC	7hr			See temp. column	PCB near U1200: 61.5°C Battery cell: 34.6°C Plastic enclosure outside near battery: 39.7°C Plastic enclosure outside near U1200: 44.9°C	opera norma dama hazar no fire leaks explo Batte curre	ally. No ige, no d. Battery e, no , no sion. ry charging
							Button (plastic): 36.0°C Button (metal) : 38.0°C Screen surface: 36.6°C Adapter		
							surface: 39.1°C Ambient: 25.0°C		

Supplementary information:

1. SC – Short Circuit; OC – Open Circuit; OL- Overload;

Condition A: Off mode, supplied by an external AC adapter, charging with an empty battery only.

Condition B: On mode, charging fully discharged battery by an external AC adapter, WiFi connected, playing three vertical bar, max sound, max brightness.

Condition C: On mode, supplied by 4.45VDC fully charged battery, WiFi connected, playing three vertical bar, max sound, max brightness, Type-C load: 5Vdc 0.5A.

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Clause		Requiren	nent + Test		~	Result -	Remark		Verdict
				<b>C</b>			4		Ċ,
Annex M.3	TABLE: Bat	tteries				4	ţ,	<u>s</u>	Р
The tests of A	nnex M are a	applicable o	only when app	propriate ba	attery data	a is not ava	ilable		
s it possible to	o install the b	attery in a	reverse polar	rity position	?	:	N	0	
	Non-re	chargeable	e batteries		F	Rechargeal	ole batterie	es	
	arging	Reverse	d chargin						
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	STOL		- 4	7820mA	12500 mA	1290mA	12500 mA	- 4	
Max. current during fault condition: J1301 pin C1 A4 SC	- Stat	A THE	A.	7890mA	12500 mA		A.	1 T	4
Max. current during fault condition: U0306 pin A7- A3 SC	set -	ter ter	12 Car	4-4	-4	5200mA	12500 mA	ANCT A	-
Max. current during fault condition: Type-C overload	÷ - 4	<u>.</u>	ANC -	the 1	A. C.	2770mA	12500 mA	A.	
Fest results:			5			<u> </u>			Verdict
Chemical lea	iks			+ .*	¢t-		No Chen leaks	nical	P
Explosion of	Explosion of the battery								Р
Emission of	Emission of flame or expulsion of molten metal								P
- Electric strer	igth tests of e	equipment	after complet	ion of tests					
Supplementar	y information	1:							

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			IE	C 62368-1				
Clause	4	Requir	ement + Test		Re	sult - Remark	.L	Verdict
		,L	A.	7	·		$\mathcal{O}$	7
Annex M.4	Table: Add batteries	itional safe	eguards for equ	ipment co	ntaining secor	ndary lithium		Р
	ry/Cell	Test	conditions		Measureme	ents	Ob	servation
N	0.			U	I (A)	Temp (C)		
Li556578JLY		Normal (Off mode		4.45Vma		Battery cell surface: 34.0°C Ambient: 25.0°C	Normal operation, no damage, no hazard. NL, NS NE, NF.	
Li556578JLY		Single fau Battery U A4 SC (Off mode	1301 pin C1-	4.45Vma	ix 7.89A	Battery cell surface: 34.7°C Ambient: 25.0°C	Normal operation, no damage, no hazard. NL, N NE, NF.	
Li556578JLY		Single fau Battery U A4 SC (On mode	U1301 pin C1-		1X 7.02A	Battery cell surface: 34.6°C Ambient: 25.0°C	dama	ation, no age, no rd. NL, NS
Supplement	ary Informati	on:						
- The mar - The mar - Maximur - Maximur Abbreviation	nufacturer sp m specified o m specified o n: SC =short	ecified high ecified low harging cu harging vo Circuit; OC	ltage: 4.45VDC	perature: 0 DL=overloa	o°C	mical leakage; NS	= no s	spillage of
Battery identificati	-	rging at _{lowest} (°C)	Observa	tion	Charging at T _{highest} (°C)	Obse	Observation	
liulivuon		ery cell: 0 bient: 0	When the temperature of the battery cell reached 0.5°C, unit stop charging. No damage, no hazard. Battery charging current: 0A		Battery cell: When the tempe 60.0 battery cell react Ambient: 60.0 stop charging. N hazard. Charging curren		ned 59 o dam	.0°C, unit
Supplement	ary Informati	on:				·		
			highest and low ditions or single f			nperature under n	ormal	operating

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			IE	C 62368-1				
Clause	~	Require	ement + Test		Result -	Remark		Verdict
				Ż				- Ĉ
Annex Q.1	TABLE:	Circuits inter	nded for interco	nnection with	building wirir	ng (LPS)		P
Note: Measu	<b>ired U</b> oc (	(V) with all load	d circuits disconn	ected:	. 7			1
Output	Com	ponents	U _{oc} (V)	l _{sc} (A	A)		S (VA	<b>\</b> )
Circuit				Meas.	Limit	Mea	as.	Limit
<u>_</u>	Normal c	ondition	5.13	1.8	8	7.5	59	100
Type C	Single fault: U225 pin 1-6 SC Single fault: U105 pin 1-9 SC		5.12	1.8	8	7.58	58	100
			4.22	3.98	8	13.	74	100
Supplement	ary Inform	nation:						
SC=Short ci	rcuit, OC=	=Open circuit	. 4		X	5	1	~ ~
. (	14				5			
T.2, T.3, T.4, T.5	TABLE: \$	Steady force t	est	4		1	A	P
Part/Location M		Material	Thickness (mm)	Force (N)	Test Dura (sec)		Obse	rvation
Top of enclosure Plast		Plastic	Min. 0.8	100	5	5		nage, no ards.
Side of enclosure Metal		Min. 1.0	100	5			nage, no ards.	
Rear of enclo	sure	Plastic	Min. 0.8	100	5			nage, no ards.

Supplementary information:

T.6, T.9	TAB	TABLE: Impact tests		4		N/A
Part/Locati	ion	Material	Thickness (mm)	Vertical distance (mm)	Observation	
<u></u>			-	7		
Supplementa	ary info	ormation:				

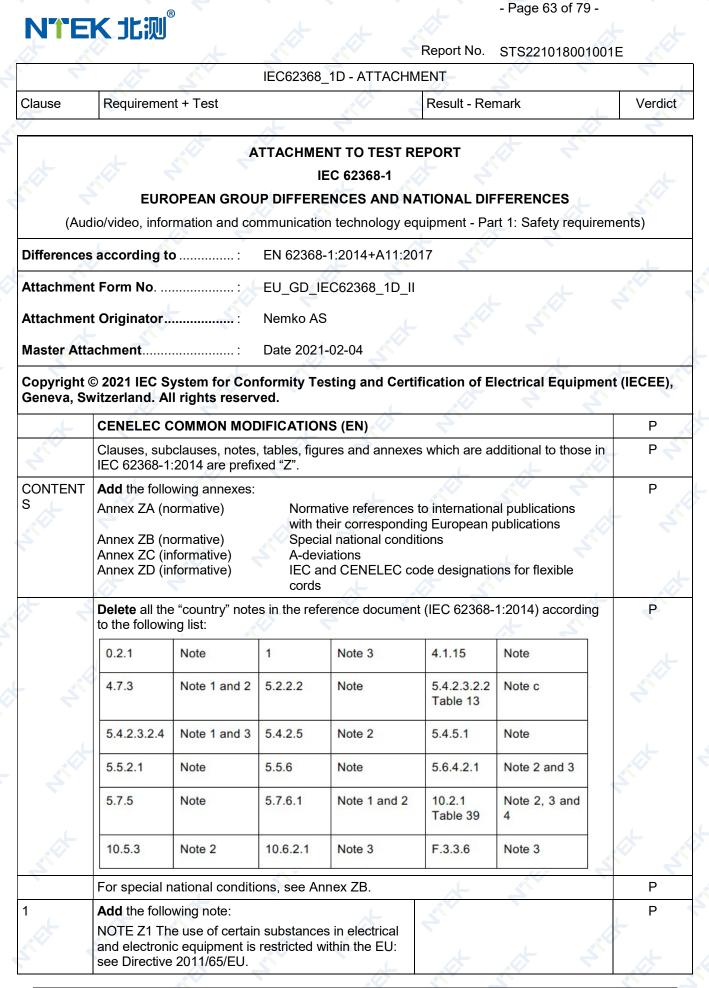
T.7	TABLE: Drop tests			P P
Part/Locatio	on Material	Thickness (mm)	Drop Height (mm)	Observation
Top of enclosure Plastic		Min. 0.8	1000	No damage, no hazards.
Side of enclosure Metal		Min. 1.0	1000	No damage, no hazards.

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			Í	EC 62368-1			
Clause		Requi	rement + Test		2	Result - Remark	Verdict
Rear of enclosure	F	Plastic	Min. 0.8	1000		No damage, no ha	zards.
Supplementary	informati	ion:					
						at the second se	2

T.8 TAE	BLE: Stress relief t	est		2	Р
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Whole unit	Plastic	Min. 0.8	70	~ 7	No damage, no hazards.
Supplementary in	formation:				



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Clause	Requirement + Test	Result - Remark	Verdict
Ciause	Requirement Frest	Tresult - Tremark	Veruier
4.Z1	Add the following new subclause after 4.9:		Р
tet 4	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. <b>mains</b> , 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):	et free t	AT STAT
	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 <b>pluggable equipment type B</b> or <b>permanently connected equipment</b> , 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.	which which which	
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for <b>pluggable equipment type A</b> the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	ATTE ATE ATE	
5.4.2.3.2.4	Add the following to the end of this subclause:	No external circuits	N/A
	The requirement for interconnection with <b>external circuit</b> is in addition given in EN 50491-3:2009.	the set	
10.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
			é
0.5.1	Add the following after the first paragraph:		N/A
	For RS 1 compliance is checked by measurement under the following conditions:	of the	
	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.	t with writer	
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	AND AND	
	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 $\mu$ Sv/h taking account of the background level.	to the state	
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	2 4	
0.6.1	Add the following paragraph to the end of the subclause: EN 71-1:2011, 4.20 and the related tests methods	AT AN	N/A
	and measurement distances apply.		
).Z1	Add the following new subclause after 10.6.5. 10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	ALL AND	N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	Ret Arth	
	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	4 Aret Aret	
.7.1	Add the following note:		Р
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	t sat t	

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	IEC62368_	1D - ATTACHME	NT	
Clause	Requirement + Test		Result - Remark	Verdict
Bibliograph	Add the following standards:			P
/	Add the following notes for the standards	s indicated:		I
	IEC 60130-9 NOTE Harmonized a		. 4.	
	IEC 60269-2 NOTE Harmonized a			
	IEC 60309-1 NOTE Harmonized a			
			384/HD 60364 series.	
	IEC 60601-2-4 NOTE Harmonized a		504/11D 00304 Selles.	
	IEC 60664-5 NOTE Harmonized a			
	IEC 61032:1997 NOTE Harmonized a		(not modified)	
	IEC 61508-1 NOTE Harmonized a		(not modified).	
	IEC 61558-2-1 NOTE Harmonized a		21 2	
	IEC 61558-2-1 NOTE Harmonized a			
	IEC 61558-2-6 NOTE Harmonized a		A S A	
	IEC 61643-1 NOTE Harmonized a			
	IEC 61643-21 NOTE Harmonized a		4	
	IEC 61643-311 NOTE Harmonized a		4	
	IEC 61643-321 NOTE Harmonized a			
	IEC 61643-331 NOTE Harmonized a			
И	ANNEX ZB, SPECIAL NATIONAL CON	IDITIONS (EN)	5. 4	Р
1.1.15	Denmark, Finland, Norway and Swede	n		P
	To the end of the subclause the following	j is added:	2	
	Class I pluggable equipment type A in			
	connection to other equipment or a netwo safety relies on connection to reliable ear			
	surge suppressors are connected betwee			
	network terminals and accessible parts,			
	marking stating that the equipment shall	be connected		
	to an earthed <b>mains</b> socket-outlet.			
	The marking text in the applicable countr as follows:	ies shall be	×	
	In <b>Denmark</b> : "Apparatets stikprop skal til	sluttes en		
	stikkontakt med jord som giver forbindels			
	stikproppens jord."		<b>4</b> .	
	In <b>Finland</b> : "Laite on liitettävä suojakoske	ettimilla	-	
	varustettuun pistorasiaan"			
	In Norway: "Apparatet må tilkoples jorde	t stikkontakt"		
4	In Sweden: "Apparaten skall anslutas till	jordat uttag"		4
1.7.3	United Kingdom			N/A
	To the end of the subclause the following	ı is added:		
	The torque test is performed using a soc			
	complying with BS 1363, and the plug pa			
	assessed to the relevant clauses of BS 1 see Annex G.4.2 of this annex	363. Also	2	

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Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.2	Denmark		N/A
	After the 2nd paragraph add the following: A warning (marking <b>safeguard</b> ) for high <b>touch</b> <b>current</b> is required if the <b>touch current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		
5.4.11.1	Finland and Sweden	$+$ $\checkmark$ $\checkmark$	N/A
and Annex	To the end of the subclause the following is added:		
3	For separation of the telecommunication network from earth the following is applicable:		STOR -
	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.		× 4
	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		4
	• 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		STE
	<ul> <li>is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.</li> </ul>		
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		A CH
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:		7
	• 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;		ATEL
	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384-14;</li> </ul>		4
	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 $60384-14$ .		() ()

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	IEC62368_1D - ATTACH		
Clause	Requirement + Test	Result - Remark	Verdict
			4
5.5.2.1	Norway		N/A
	After the 3rd paragraph the following is added:	*	
Ś	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		
5.5.6	Finland, Norway and Sweden		N/A
	To the end of the subclause the following is added:		. [
	Resistors used as <b>basic safeguard</b> or bridging <b>basic</b> <b>insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.	the state of	AT COL
5.6.1	Denmark	5 7	N/A
	Add to the end of the subclause		
17 17 17	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.	with with with	the states of th
5.6.4.2.1	Ireland and United Kingdom	× ×	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:	L. L.	4
	<ul> <li>the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.</li> </ul>	at stat it	
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.	ATTER A	
- 7 -			
5.7.5	Denmark	i de la companya de l	N/A
	To the end of the subclause the following is added:	- <u>S</u>	1
	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		

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Clause	Requirement + Test	Result - Remark	Verdict
			2
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.		ATE
	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.		A COL
	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:		(* - <del>*</del>
	"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)"		at 4 ≱ 4
	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.		A.
	Translation to Norwegian (the Swedish text will also be accepted in Norway):		A COL
	"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."		A REAL
	Translation to Swedish:		
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medfőra risk főr brand. Főr att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".		stat &

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Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.2	<b>Denmark</b> To the end of the subclause the following is added:		N/A
	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.		with
3.3.1 and	Ireland and United Kingdom		N/A
3.4	The following is applicable:		
	To protect against excessive currents and short- circuits in the primary circuit of <b>direct plug-in</b> <b>equipment</b> , 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 <b>direct plug-in equipment</b> , until the requirements of Annexes B.3.1 and B.4 are met	whet whet	artico At a
G.4.2	Denmark	5	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.	ANTER ANTER ANTER	
	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.	ATHE ATHE	r t
	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.	with whit	5
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.		A COL
	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	AND A	

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Clause	Requirement + Test	Result - Remark	Verdict
			2
G.4.2	United Kingdom		N/A
	To the end of the subclause the following is added:	+ 5	
	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.	t with with	
G.7.1	United Kingdom	t st	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.	ATTEN ATTEN AT	
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	the set set	
G.7.1	Ireland	2 7	N/A
	To the first paragraph the following is added:		
	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	et with with	
G.7.2	Ireland and United Kingdom	4	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.	at star	

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Clause	Requirement + Test	Result - Remark	Verdict
		L. L.	- A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
10.5.2	Germany	* 5	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.	* with with	
	<i>Justification:</i> German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	with with	
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	whet whet will	

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#### Attachment 2 – Photo Documentation

Fig.2 Over view

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Fig.3 Over view



Fig.4 Terminal view

#### Shenzhen NTEK Testing Technology Co., Ltd.

#### Fig.6 Internal view



Fig.5 Internal view



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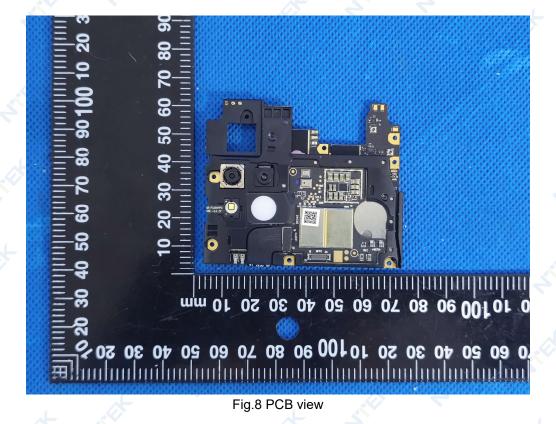
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NTEK 北测[®]

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Fig.7 Internal view



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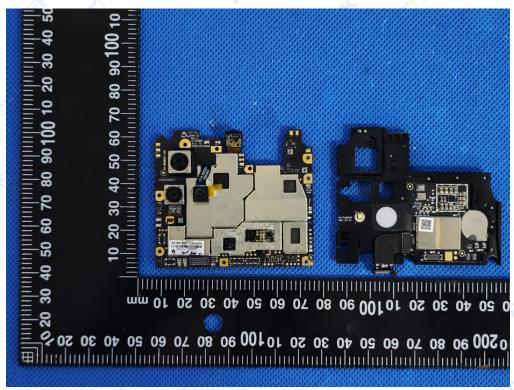
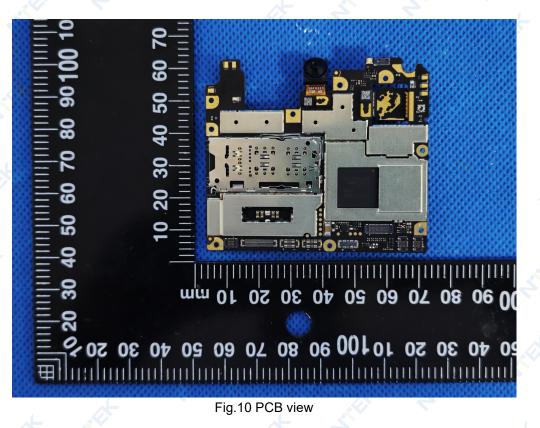


Fig.9 PCB view



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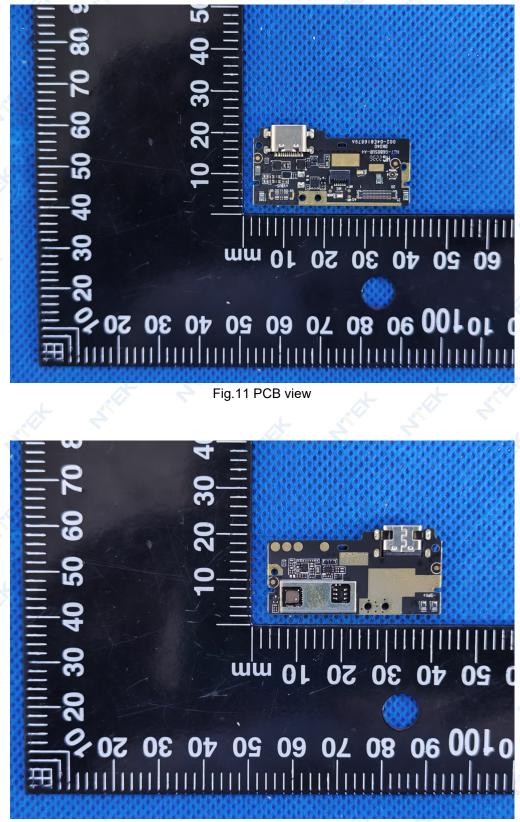


Fig.12 PCB view

Report No. STS221018001001E

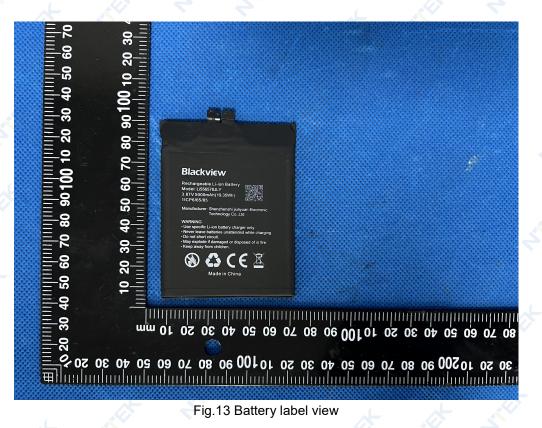


Fig.14 Adapter label view

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