TEST REPORT

Report No. :	STS221028001001E
Product :	Mobile Phone
Model No. :	A85
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	1/F, Building E, Fenda Science Park, Sanwei Community,
Location :	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 62368-1
	on and communication technology equipment art 1: Safety requirements
Report Number:	STS221028001001E
Tested by (name + signature)	
Date of issue	2022-11-15
Testing Laboratory	. Shenzhen NTEK Testing Technology Co., Ltd.
Address	. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China
Applicant's name:	DOKE COMMUNICATION (HK) LIMITED
Address :	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA
Test specification:	
Standard:	□IEC 62368-1:2014 (Second Edition) ☑ EN 62368-1:2014+A11:2017
Test procedure:	CE Scheme
Non-standard test method: :	N/A
Test Report Form No:	IEC62368_1B
Test Report Form(s) Originator :	UL(US)
Master TRF	2014-03
	em for Conformity Testing and Certification of Electrotechnical EE), Geneva, Switzerland. All rights reserved.
Test Item description	Mobile Phone
Trade Mark	Blackview
Manufacturer	. Shenzhen DOKE Electronic Co., Ltd
Manufacturer address	. 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.
Model/Type reference	A85
Ratings	See adapter marking

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%
	□ + <u>25</u> %/- <u>15</u> % ⊠ None
Supply Connection – Type:	pluggable equipment type A - non-detachable supply cord
	appliance coupler
	direct plug-in
	mating connector
2 x x	pluggable equipment type B -
	non-detachable supply cord
	appliance coupler
	□ permanent connection □ mating connector ⊠ other: <u>Type C connector</u>
Considered current rating of protective device as part	N/A (Not directly connected to mains)
of building or equipment installation	Installation location: Duilding; dequipment
Equipment mobility:	movable Annd-held transportable
	stationary for building-in direct plug-in rack-mounting wall-mounted
Over voltage category (OVC):	
	OVC IV ⊠ other: (Not directly connected to mains)
Class of equipment	
Access location	restricted access location X/A
Pollution degree (PD):	□ PD 1
Manufacturer's specified maxium operating ambient :	<u>25</u> ℃
IP protection class:	
Power Systems:	□ TN □ TT □ IT - <u>230</u> V _{L-L}
Altitude during operation (m)	⊠ 2000 m or less □ <u>5000</u> m
Altitude of test laboratory (m)	□ 2000 m or less
Mass of equipment (kg):	🖾 approx. 0.191kg

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POSSIBLE TEST CASE VERDICTS:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	
Date of receipt of test item:	2022-10-28
Date (s) of performance of tests	2022-10-28 to 2022-11-14

GENERAL PRODUCT INFORMATION:

Product Description -

-The maximum operating temperature is 25°C.

The unit shall be charged by approved external approved adapter according to IEC/EN 62368-1 and meet LPS requirements. The external power adapter rated parameter is "input: AC 100V-240V, 50/60Hz, 0.5A; output: DC 5, 3A, DC7/9V, 2A, DC 12V, 1.5A".

-Information of battery pack:

- Highest specified charging temperature: 60°C
- Lowest specified charging temperature: 10°C
- Maximum specified charging current: 5.376A
- Maximum specified charging voltage: 4.43VDC

Model Differences – Designation model is different only.

N/A

Additional application considerations - (Considerations used to test a component or sub-assembly) -N/A

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Remark:

-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 (if any) should be at least 5.0 mm and 7.0 mm respectively in height. -The manufacturer and importer detail information are showed in instructions.

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ENERGY SOURCE IDENTIFICATION AND CLASSIFIC	ATION TABLE:
(Note 1: Identify the following six (6) energy source form (Note 2: The identified classification e.g., ES2, TS1, sho on the body or its ability to ignite a combustible material worse case classification e.g. PS3, ES3.	uld 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 circu classification) Example: +5 V dc input	it designation and corresponding energy source ES1
Source of electrical energy	Corresponding classification (ES)
Internal circuits	ES1
Type C input port	ES1
Electrically-caused fire (Clause 6):	
(Note: List sub-assembly or circuit designation and corre Example: Battery pack (maximum 85 watts):	esponding energy source classification) PS2
Source of power or PIS	Corresponding classification (PS)
Internal circuits	PS2(Resistive PIS)
Battery pack/cell output	PS2(Resistive PIS)
Type C output	PS1
part of the component evaluation.) Example: Liquid in filled component Source of hazardous substances	Glycol Corresponding chemical
Battery	Complied with annex M
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. Example: Wall mount unit	& corresponding MS classification based on Table 35.) MS2
Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and corners of accessible parts	MS1
Product mass	MS1
Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding location, operating temperature and contact time in Table Example: Hand-held scanner – thermoplastic enclosure	
Source of thermal energy	Corresponding classification (TS)
Accessible parts	TS1
Radiation (Clause 10)	
(Note: List the types of radiation present in the product ar Example: DVD – Class 1 Laser Product	nd the corresponding energy source classification.) RS1
Type of radiation	Corresponding classification (RS)
LED A	RS1 🖉 🗢

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Acoustic			RS2			
		ENERGY S	OURCE DIAGR	AM		
ndicate which ene	rgy sources are i				gram below	
2			× <		<u>ـ</u> ل	K
	📈 🖂 E	S 🛛 PS	MS 🛛	TS 🛛 🖂 RS		
Remark: N/A		<u>x x</u>				
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OVERVIEW OF EMPLOYED	SAFEGUARDS					
Clause	Possible Hazard					
5.1	Electrically-caused injury	Electrically-caused injury				
Body Part	Energy Source	Safeguards				
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)		
Ordinary person, Skilled person	ES1: Internal circuits ES1: Type C input port	N/A	N/A	N/A		
6.1	Electrically-caused fire	Electrically-caused fire				
Material part	Energy Source		Safeguards			
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced		
Internal combustible material/ internal plastic enclosure	PS2: Internal circuits PS2: Battery pack/cell PS1:Type C output	1, No ignition occurred. 2, No parts exceeding 90% of its spontaneous ignition temperature.	 PCB is complied with V-0 material. All other components: at least V-2 except for mounted on V-0 material or small parts of combustible material. V-0 enclosure used 	N/A		
7.1	Injury caused by hazardous	substances				
Body 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					
Body Part	Energy Source		Safeguards			
(e.g. Ordinary)	(MS3: High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)		
Ordinary person, Skilled person	MS1: Sharp edges and corners of accessible parts	N/A	N/A	N/A		
Ordinary person, Skilled person	MS1: Product mass	N/A	N/A	N/A		
9.1	Thermal Burn					
Body Part	Energy Source		Safeguards			
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced		
Ordinary person, Skilled person	TS1: Accessible parts	N/A	N/A	N/A		

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10.1	Radiation				
Body Part	Energy Source	Safeguards			
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
Ordinary person, Skilled person	RS1: LED	N/A	N/A	N/A	
Ordinary person,	RS2: Acoustic	N/A	N/A	Warning	
Skilled person					

Supplementary Information:

(1) See attached energy source diagram for additional details.

(2) "N" - Normal Condition; "A" - Abnormal Condition; "S" Single Fault.

*	IEC 62368-1	~ <u>~</u>	
Clause	Requirement + Test	Result - Remark	Verdict
4		the state	
4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	at at an	Р
4.1.2	Use of components	(See appended table 4.1.2)	Р
4.1.3 🔷	Equipment design and construction		Р
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.4	Safeguard robustness	F - 2 - 7	Р
4.4.4.2	Steady force tests	(See Annex T.4)	Р
4.4.4.3	Drop tests	(See Annex T.7)	P
4.4.4.4	Impact tests:	×	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	No such enclosure and barrier	N/A
4.4.4.6	Glass Impact tests	Surface area not exceeding 0.1m ²	N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard	Considered, but no such barrier or enclosure provided	N/A
4.4.4.9	Accessibility and safeguard effectiveness	All safeguards remain effective	Р
4.5	Explosion		Р
4.6	Fixing of conductors		N/A
4.6.1	Fix conductors not to defeat a safeguard		N/A
4.6.2	10 N force test applied to:	25	N/A
4.7	Equipment for direct insertion into mains socket - outlets	No such apparatus	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 coin/button cell batteries used	N/A
4.8.2	Instructional safeguard		N/A
4.8.3	Battery Compartment Construction	2	N/A
LINE .	Means to reduce the possibility of children removing the battery	A 4	
4.8.4	Battery Compartment Mechanical Tests:	A	N/A
4.8.5	Battery Accessibility	5	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	P

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5	ELECTRICALLY-CAUSED INJURY		P_
5.2.1	Electrical energy source classifications :	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits		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:	No single pulse introduced	N/A
5.2.2.5	Limits for repetitive pulses:	No repetitive pulses introduced	N/A
5.2.2.6	Ringing signals	No means for connection to telephone network and no ringing signal generated	N/A
5.2.2.7	Audio signals:		N/A
5.3	Protection against electrical energy sources	All internal circuits considered ES1	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	AND AND A	N/A
5.3.2.2	Contact requirements	<u>A</u>	N/A
	a) Test with test probe from Annex V	4	N/A
	b) Electric strength test potential (V):	At A	N/A
+ _	c) Air gap (mm):		N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements	5	Р
5.4.1.2	Properties of insulating material	t i	Р
5.4.1.3	Humidity conditioning		N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	Р
5.4.1.5	Pollution degree	2	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	at star	N/A
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage		N/A
5.4.1.9	Insulating surfaces	~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	the state	N/A
5.4.1.10.2	Vicat softening temperature:	5 5	N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
1			
5.4.1.10.3	Ball pressure:	2 7	N/A
5.4.2	Clearances	A A A A A A A A A A A A A A A A A A A	N/A
5.4.2.2	Determining clearance using peak working voltage		N/A
5.4.2.3	Determining clearance using required withstand voltage		N/A
	a) a.c. mains transient voltage		—
	b) d.c. mains transient voltage:		_
4	c) external circuit transient voltage	2 4 1	
2	d) transient voltage determined by measurement:	t a	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	At all all	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	<	N/A
5.4.3	Creepage distances:		N/A
5.4.3.1	General		N/A
5.4.3.3	Material Group:		
5.4.4	Solid insulation	5	N/A
5.4.4.2	Minimum distance through insulation:		N/A
5.4.4.3	Insulation compound forming solid insulation	A S	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints		N/A
5.4.4.6	Thin sheet material	4	N/A
5.4.4.6.1	General requirements	t t	N/A
5.4.4.6.2	Separable thin sheet material		N/A
	Number of layers (pcs):	H (N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	t star	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::		N/A
5.4.5	Antenna terminal insulation	No such terminal	N/A
5.4.5.1	General	S. I	N/A
5.4.5.2	Voltage surge test	A A	N/A
	Insulation resistance (MΩ):		_

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.6	Insulation of internal wire as part of supplementary safeguard:		N/A
5.4.7	Tests for semiconductor components and for cemented joints	the state	N/A
5.4.8	Humidity conditioning		N/A
<u> </u>	Relative humidity (%):		
	Temperature (°C):		
4	Duration (h)	F <u>5</u> 7	
5.4.9	Electric strength test		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 transient voltage from external circuit	N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General	× 7 7	N/A
5.4.10.2.2	Impulse test:	S.C.	N/A
5.4.10.2.3	Steady-state test:	the second se	N/A
5.4.11	Insulation between external circuits and earthed circuitry	No such external circuit	N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	Rated operating voltage U _{op} (V)		
	Nominal voltage U _{peak} (V):	x x	
.1	Max increase due to variation U _{sp} :	* 5	
<u>A</u>	Max increase due to ageing ΔU_{sa} :	Ĺ	
4	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa} \dots \dots$		
5.5	Components as safeguards		
5.5.1	General	4	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	ATT A	N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.5.5	Relays		N/A
5.5.6	Resistors		N/A
5.5.7	SPD's		N/A
5.5.7.1	Use of an SPD connected to reliable earthing		N/A
5.5.7.2	Use of an SPD between mains and protective earth		N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	+ stor stor	N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation	4	N/A
5.6.3	Requirement for protective earthing conductors	4	N/A
	Protective earthing conductor size (mm ²):	A A A	_
5.6.4	Requirement for protective bonding conductors	Star Star L	N/A
5.6.4.1	Protective bonding conductors		N/A
	Protective bonding conductor size (mm ²):	5	_
5.6.4.2	Protective current rating (A):		
5.6.4.3	Current limiting and overcurrent protective devices	AND AND AND	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement		N/A
- Lil	Conductor size (mm ²), nominal thread diameter (mm).		N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective system		N/A
5.6.6.1	Requirements	×	N/A
5.6.6.2	Test Method Resistance (Ω)	At Street	N/A
5.6.7	Reliable earthing		N/A
5.7	Prospective touch voltage, touch current and prote	ctive conductor current	N/A
5.7.2	Measuring devices and networks	× *	N/A
5.7.2.1	Measurement of touch current:	A 2	N/A
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections	the state	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	System of interconnected equipment (separate connections/single connection)		_
	Multiple connections to mains (one connection at a time/simultaneous connections)	t at ste	
5.7.4	Earthed conductive accessible parts		N/A
5.7.5	Protective conductor current		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	the start start	N/A
5.7.6.1	Touch current from coaxial cables	2	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits		N/A
5.7.7	Summation of touch currents from external circuits	No such external circuits	N/A
S.C.	a) Equipment with earthed external circuits Measured current (mA):	L. L.	N/A
•	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	A At	N/A
* *			- Str
6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential ig	gnition sources (PIS)	Р
6.2.2	Power source circuit classifications	t i	Р
6.2.2.1	General		P
6.2.2.2	Power measurement for worst-case load fault :	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	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		P _
6.2.3.1	Arcing PIS:		N/A
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	Р
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	P

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Clause	Requirement + Test	Result - Remark	Verdict
6.3.1 (b)	Combustible materials outside fire enclosure		N/A
6.4	Safeguards against fire under single fault conditions	*	P
6.4.1	Safeguard Method	Method of control fire spread used	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	AT ANY T	N/A
6.4.3 🤝	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	t t	N/A
6.4.3.1	General	F <u>3</u> 7	N/A
6.4.3.2	Supplementary Safeguards		N/A
~	Special conditions if conductors on printed boards are opened or peeled	at star it	N/A
6.4.3.3	Single Fault Conditions	3	N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		Р
6.4.5	Control of fire spread in PS2 circuits	A M A	Р
6.4.5.2	Supplementary safeguards:	PCB: V-0; Fire enclosure used: V-0	P
6.4.6	Control of fire spread in PS3 circuit		N/A
6.4.7	Separation of combustible materials from a PIS	A A	Р
6.4.7.1	General:	Fire enclosure used: V-0	Р
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	2	Р
6.4.8	Fire enclosures and fire barriers	F (Р
6.4.8.1	Fire enclosure and fire barrier material properties	Fire enclosure provided	P
6.4.8.2.1	Requirements for a fire barrier		Р
6.4.8.2.2	Requirements for a fire enclosure	V-0 used.	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		Р
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings on the fire enclosure.	N/A
6.4.8.3.2	Fire barrier dimensions	4	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	No opening	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)	4 A	N/A
	Flammability tests for the bottom of a fire enclosure		N/A



*	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):		N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	Fire enclosure used: V-0	Ρ
6.5	Internal and external wiring		Р
6.5.1	Requirements		Р
6.5.2	Cross-sectional area (mm ²):	(See appended 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	t state	F P
×	External port limited to PS2 or complies with Clause Q.1	Comply PS1	Р
		Å	

INJURY CAUSED BY HAZARDOUS SUBSTANCES		Р
Reduction of exposure to hazardous substances	No such hazardous substances	N/A
Ozone exposure	No ozone production	N/A
Use of personal safeguards (PPE)	4	N/A
Personal safeguards and instructions:	At A	
Use of instructional safeguards and instructions	K C X	N/A
Instructional safeguard (ISO 7010)		
Batteries:	(See appended tables Annex M)	Р
	Reduction of exposure to hazardous substances Ozone exposure Use of personal safeguards (PPE) Personal safeguards and instructions: Use of instructional safeguards and instructions Instructional safeguard (ISO 7010):	Reduction of exposure to hazardous substances No such hazardous substances Ozone exposure No ozone production Use of personal safeguards (PPE) Personal safeguards and instructions: Use of instructional safeguards and instructions Instructional safeguard (ISO 7010)

8	MECHANICALLY-CAUSED INJURY		¢Ρ
8.1	General		Р
8.2	Mechanical energy source classifications		Р
8.3	Safeguards against mechanical energy sources		Р
8.4	Safeguards against parts with sharp edges and corners	at an	Р
8.4.1	Safeguards	MS1 classification	N/A
8.5	Safeguards against moving parts	* *	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
8.5.2	Instructional Safeguard :	4	_
8.5.4	Special categories of equipment comprising moving parts	the state of the state	N/A

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NTEK 北测 Report No. STS221028001001E IEC 62368-1 Result - Remark Verdict Clause Requirement + Test 8.5.4.1 N/A Large data storage equipment 8.5.4.2 Equipment having electromechanical device for N/A destruction of media 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 Mass < 7kg 8.6.1 Product classification MS1 N/A Instructional Safeguard: 8.6.2 N/A Static stability 8.6.2.2 N/A Static stability test Applied Force 8.6.2.3 **Downward Force Test** N/A 8.6.3 N/A Relocation stability test 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 N/A mounting surface) 8.7.2 N/A Direction and applied force..... 8.8 Handles strength N/A 8.8.1 Classification N/A 8.8.2 N/A Applied Force 8.9 Wheels or casters attachment requirements N/A 8.9.1 Classification N/A 8.9.2 Applied force: N/A 8.10 Carts, stands and similar carriers

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict 8.10.1 General N/A 8.10.2 Marking and instructions N/A Instructional Safeguard 8.10.3 Cart, stand or carrier loading test and compliance N/A Applied force 8.10.4 Cart, stand or carrier impact test N/A 8.10.5 N/A Mechanical stability Applied horizontal force (N) 8.10.6 Thermoplastic temperature stability (°C)..... N/A 8.11 N/A Mounting means for rack mounted equipment 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 N/A 8.12 N/A Telescoping or rod antennas Button/Ball diameter (mm)..... ____

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9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	TS1: accessible parts	Р
9.3	Safeguard against thermal energy sources		N/A
9.4	Requirements for safeguards		N/A
9.4.1	Equipment safeguard		N/A
9.4.2	Instructional safeguard:		N/A

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification		Р
10.3	Protection against laser radiation	4	N/A
	Laser radiation that exists equipment:	× ×	_
	Normal, abnormal, single-fault:		N/A
4	Instructional safeguard:		—
1	Tool:		_
10.4	Protection against visible, infrared, and UV radiation	LED system unit used.	P

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IEC 62368-1 Verdict Clause Requirement + Test Result - Remark 10.4.1 General P 10.4.1.a) N/A RS3 for Ordinary and instructed persons 10.4.1.b) RS3 accessible to a skilled person..... N/A Personal safeguard (PPE) instructional safeguard.....: 10.4.1.c) Equipment visible, IR, UV does not exceed RS1.: LED system unit comply with RS1 Р Р 10.4.1.d) Normal, abnormal, single-fault conditions: Exempt group 10.4.1.e) N/A Enclosure material employed as safeguard is opaque..... 10.4.1.f) UV attenuation N/A N/A 10.4.1.g) Materials resistant to degradation UV 10.4.1.h) Enclosure containment of optical radiation.....: N/A 10.4.1.i) Exempt group Р Exempt Group under normal operating conditions...... 10.4.2 N/A Instructional safeguard: 10.5 Protection against x-radiation N/A 10.5.1 X- radiation energy source that exists equipment : N/A N/A Normal, abnormal, single fault conditions Equipment safeguards.....: N/A N/A Instructional safeguard for skilled person: : 10.5.3 Most unfavourable supply voltage to give maximum radiation: Abnormal and single-fault condition: N/A Maximum radiation (pA/kg)..... N/A 10.6 Ρ Protection against acoustic energy sources 10.6.1 Ρ General Р 10.6.2 Classification RS2 Acoustic output, dB(A).....: N/A Ρ Output voltage, unweighted r.m.s..... Maximum volume: Right: 124.7mV; Left: 124.9mV Warning: Right: 8.63mV; Left: 8.65mV Р 10.6.4 Protection of persons Instructional safeguards 1. Symbol / 1 Ρ 2. "high sound pressure" or equivalent wording; 3. "hearing

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	A A A A A A A A A A A A A A A A A A A	damage risk" or equivalent wording; 4. "do not listen at high volume levels for long periods" or equivalent wording.	AN IST
	Equipment safeguard prevent ordinary person to RS2	Automatically return to RS1 level when the power is switched off.	—
4	Means to actively inform user of increase sound pressure:	Warning: hearing damage risk or equivalent wording	—
	Equipment safeguard prevent ordinary person to RS2	After 20h the acoustic output not exceeding RS1	—
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	No such device	N/A
10.6.5.1	Corded passive listening devices with analog input	11	N/A
A.C.	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output:		
10.6.5.2	Corded listening devices with digital input		N/A
X	Maximum dB(A):	2 2	
10.6.5.3	Cordless listening device		N/A
	Maximum dB(A):	+ 7	
	x x x		
_	NORMAL OPERATING CONDITION TESTS, ABM	NORMAL OPERATING	Р

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		P
B.2	Normal Operating Conditions		Р
B.2.1	General requirements:	(See summary of testing & appended test tables)	P
4	Audio Amplifiers and equipment with audio amplifiers	et are	N/A
B.2.3	Supply voltage and tolerances	(See appended table B.2.5)	Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General requirements	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	~	N/A
B.3.3	D.C. mains polarity test		N/A
B.3.4	Setting of voltage selector:	No such voltage selector.	N/A
B.3.5	Maximum load at output terminals :	No such terminals	N/A
B.3.6	Reverse battery polarity	No battery reverse polarity	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	AT AT A	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
B.3.8	Safeguards functional during and after abnormal operating conditions		P
B.4	Simulated single fault conditions		P
B.4.2	Temperature controlling device open or short- circuited		N/A
B.4.3 🔶	Motor tests		Р
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	+ Mat And	N/A
B.4.4	Short circuit of functional insulation		Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	- Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	4	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	Р
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	P
B.4.7	Continuous operation of components		N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	the set	Р
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 radiation within the EUT.	N/A
C.1.2	Requirements	At I	N/A
C.1.3	Test method	At I	N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus	&	N/A 🔇

D	TEST GENERATORS					N/A
D.1	Impulse test generators		4			N/A
D.2	Antenna interface test generator	2	×	X	2	N/A
D.3	Electronic pulse generator			5	*	N/A

	IEC 62368-1	~	
Clause	Requirement + Test	Result - Remark	Verdict
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions	(See appended table B.2.5)	N/A
	Audio signal voltage (V)		
	Rated load impedance (Ω):		
E.2	Audio amplifier abnormal operating conditions		N/A
	A A		5
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements		Р
4	Instructions – Language:	English checked	
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1	5	Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific		P
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	5. 5	P
F.3.2	Equipment identification markings	L.	Р
F.3.2.1	Manufacturer identification:	See marking plate	_
F.3.2.2	Model identification:	See marking plate	_
F.3.3	Equipment rating markings		N/A
F.3.3.1	Equipment with direct connection to mains	A 4	N/A
F.3.3.2	Equipment without direct connection to mains	Equipment without direct connection to mains	N/A
F.3.3.3	Nature of supply voltage		_
F.3.3.4	Rated voltage		
F.3.3.4	Rated frequency:	×	
F.3.3.6	Rated current or rated power:	,t	_
F.3.3.7	Equipment with multiple supply connections	No multiple supply connection.	N/A
F.3.4	Voltage setting device	No such device.	N/A
F.3.5	Terminals and operating devices	~	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlet.	N/A
F.3.5.2	Switch position identification marking:	Not such switch.	N/A
F.3.5.3	Replacement fuse identification and rating markings	Provided the user manual.	N/A
F.3.5.4	Replacement battery identification marking	Provided the user manual.	Р

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
F.3.5.5	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I Equipment	1 N 2	N/A
F.3.6.1.1	Protective earthing conductor terminal	C. 5	N/A
F.3.6.1.2	Neutral conductor terminal		N/A
F.3.6.1.3	Protective bonding conductor terminals		N/A
F.3.6.2	Class II equipment (IEC60417-5172)	F - 2	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	at all all	N/A
F.3.7	Equipment IP rating marking	IPX0, no marking is needed	_
F.3.8	External power supply output marking		N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	P WY HER
F.4	Instructions	* *	Р
AT CT	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	2	N/A
AT CT	d) Equipment intended for use only in restricted access area	Not used in restricted access area.	N/A
×	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	ATTEN AT	N/A
	f) Protective earthing employed as safeguard		N/A

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IEC 62368-1 Clause Requirement + Test Result - Remark Verdict g) Protective earthing conductor current exceeding N/A ES2 limits Ρ h) Symbols used on equipment i) Permanently connected equipment not provided N/A with all-pole mains switch N/A i) Replaceable components or modules providing safeguard function F.5 Instructional safeguards Ρ Where "instructional safeguard" is referenced in Р the test report it specifies the required elements, location of marking and/or instruction

G	COMPONENTS		Р
G.1	Switches	الم	N/A
G.1.1	General requirements		N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.2	Relays		N/A
G.2.1	General requirements	5	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power	A S .L	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-off used.	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	+ star F	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	de .	N/A
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal link used.	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A 🎺
2	Aging hours (H):		
	Single Fault Condition:		
X	Test Voltage (V) and Insulation Resistance (Ω) . :	4	
G.3.3	PTC Thermistors		N/A
G.3.4	Overcurrent protection devices		N/A

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*	IEC 62368-1	4	
Clause	Requirement + Test	Result - Remark	Verdict
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions		N/A
G.4	Connectors	~ ~	N/A
G.4.1 💙	Spacings	Not directly connected to mains	N/A
G.4.2	Mains connector configuration:		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound Components		N/A
G.5.1	Wire insulation in wound components: :	L	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	4	N/A
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Time (s):		
	Temperature (°C):		
G.5.2.3	Wound Components supplied by mains		N/A
G.5.3	Transformers		N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1):	t <	N/A
4	Position:		_
	Method of protection:		_
G.5.3.2	Insulation	× 4	N/A
	Protection from displacement of windings:	×	
G.5.3.3	Overload test:	A S	N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding Temperatures testing in the unit		N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	\$ \$	N/A
G.5.4	Motors	A 2	Р
G.5.4.1	General requirements	1 4 M	Р
	Position:		—
G.5.4.2	Test conditions		N/A

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IEC 62368-1 Result - Remark Verdict Clause Requirement + Test G.5.4.3 N/A Running overload test G.5.4.4 N/A Locked-rotor overload test Test duration (days) G.5.4.5 Running overload test for d.c. motors in N/A secondary circuits G.5.4.5.2 Tested in the unit N/A Electric strength test (V) G.5.4.5.3 Tested on the Bench - Alternative test method: N/A test time (h) Electric strength test (V): Ρ G.5.4.6 Locked-rotor overload test for d.c. motors in secondary circuits G.5.4.6.2 Tested in the unit Р Maximum Temperature N/A (See appended table B.4) Electric strength test (V): N/A G.5.4.6.3 N/A Tested on the bench - Alternative test method: test time (h): Electric strength test (V): N/A G.5.4.7 N/A Motors with capacitors G.5.4.8 N/A Three-phase motors G.5.4.9 N/A Series motors Operating voltage: G.6 Wire Insulation N/A N/A G.6.1 General G.6.2 Solvent-based enamel wiring insulation N/A G.7 Mains supply cords N/A G.7.1 General requirements Not directly connected to mains N/A Туре..... Rated current (A) Cross-sectional area (mm²), (AWG).....: G.7.2 Compliance and test method N/A G.7.3 Cord anchorages and strain relief for non-N/A detachable power supply cords G.7.3.2 N/A Cord strain relief G.7.3.2.1 Requirements N/A Strain relief test force (N)

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IEC 62368-1 Result - Remark Verdict Clause Requirement + Test 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 N/A Cord Entry: G.7.5 Non-detachable cord bend protection N/A G.7.5.1 N/A Requirements G.7.5.2 Mass (g):: Diameter (m) Temperature (°C) G.7.6 Supply wiring space N/A G.7.6.2 N/A Stranded wire G.7.6.2.1 Test with 8 mm strand N/A G.8 N/A Varistors G.8.1 No varistors used. General requirements N/A G.8.2 Safeguard against shock N/A G.8.3 Safeguard against fire N/A G.8.3.2 Varistor overload test: N/A N/A G.8.3.3 Temporary overvoltage G.9 Integrated Circuit (IC) Current Limiters N/A Manufacturer defines limit at max. 5A. No such IC used. N/A G.9.1 a) G.9.1 b) Limiters do not have manual operator or reset N/A G.9.1 c) Supply source does not exceed 250 VA G.9.1 d) IC limiter output current (max. 5A) G.9.1 e) Manufacturers' defined drift: N/A G.9.2 Test Program 1 G.9.3 N/A Test Program 2 G.9.4 **Test Program 3** N/A G.10 Resistors N/A G.10.1 N/A General requirements G.10.2 Resistor test N/A G.10.3 Test for resistors serving as safeguards between N/A the mains and an external circuit consisting of a coaxial cable G.10.3.1 General requirements N/A G.10.3.2 N/A Voltage surge test

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Clause	Requirement + Test	Result - Remark	Verdict
G.10.3.3	Impulse test		N/A
G.11	Capacitor and RC units		N/A
G.11.1	General requirements	No such components used	N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers		N/A
, ch	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)		N/A
~	Type test voltage Vini		/ _
	Routine test voltage, Vini,b:	A 7 2	_
G.13	Printed boards	- A	Р
G.13.1	General requirements		_ P ₹
G.13.2	Uncoated printed boards		Р
G.13.3	Coated printed boards	Str. St. L	N/A
G.13.4	Insulation between conductors on the same inner surface	- A	N/A
	Compliance with cemented joint requirements (Specify construction)	A AT	
G.13.5	Insulation between conductors on different surfaces	AN P A RAT	N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs)		
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection	A 2	N/A
G.13.6.2a)	Thermal conditioning	* 5	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		N/A
G.15.3.1	Hydrostatic pressure test	* * *	N/A
G.15.3.2	Creep resistance test		N/A

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Verdict

N/A

NTEK 北测 Report No. STS221028001001E IEC 62368-1 Clause Requirement + Test **Result - Remark** G.15.3.3 Tubing and fittings compatibility test G.15.3.4 Vibration test G.15.3.5 Thermal cycling test G.15.3.6 Force test G.15.4 Compliance G.16 IC including capacitor discharge function (ICX) a) Humidity treatment in accordance with sc5.4.8 -120 hours b) Impulse test using circuit 2 with Uc = to transient voltage: C1) Application of ac voltage at 110% of rated voltage for 2.5 minutes C2) Test voltage D1) 10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer

Capacitance:

Resistance:

D2)

D3)

	<u>L Š , , , , , , , , , , , , , , , , , , </u>		4
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1 🔽	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1 💉	Ringing signal		N/A
H.3.1.1	Frequency (Hz)	A 2	
H.3.1.2	Voltage (V)	F - 20	
H.3.1.3	Cadence; time (s) and voltage (V)		
H.3.1.4	Single fault current (mA):		
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	~ _	N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V):		
4			4

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

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
К	SAFETY INTERLOCKS		N/A
K.1	General requirements	No safety interlocks inside the EUT	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
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 THEIR 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) :	Provided by the manufacture	Р
M.3	Protection circuits		Р

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
	- 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
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	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		Р
	Charge		Р
	Discharge		Р
M.4.4.4	Charge-discharge cycle test		Р
M.4.4.5	Result of charge-discharge cycle test		Р
M.5	Risk of burn due to short circuit during carrying	See appended table B.4	Р
M.5.1	Requirement		Р
M.5.2	Compliance and Test Method (Test of P.2.3)		Р
M.6	Prevention of short circuits and protection from other effects of electric current	See appended table B.4	Ρ
M.6.1	Short circuits		Р
M.6.1.1	General requirements		Р
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)		N/A

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IEC 62368-1 Clause Requirement + Test Result - Remark Verdict M.6.2 Leakage current (mA): N/A M.7 Risk of explosion from lead acid and NiCd N/A batteries M.7.1 Ventilation preventing explosive gas N/A concentration M.7.2 Compliance and test method N/A M.8 Protection against internal ignition from external N/A spark sources of lead acid batteries M.8.1 General requirements N/A M.8.2 Test method N/A M.8.2.1 General requirements N/A Estimation of hypothetical volume Vz (m³/s).....: M.8.2.2 M.8.2.3 Correction factors: M.8.2.4 Calculation of distance *d* (mm): M.9 Preventing electrolyte spillage N/A M.9.1 Protection from electrolyte spillage N/A M.9.2 Tray for preventing electrolyte spillage N/A M.10 Instructions to prevent reasonably foreseeable Р Provided the instructions include misuse (Determination of compliance: inspection, battery charging, storage and data review; or abnormal testing): transportation, and disposal and recycling.

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	Ν	ELECTROCHEMICAL POTENTIALS		N/A
ŀ		Metal(s) used:		

0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		N/A
	Figures O.1 to O.20 of this Annex applied	Considered	

Ρ	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	Р
P.1	General requirements	No opening	Р
P.2.2	Safeguards against entry of foreign object	No safeguards requirement.	N/A
	Location and Dimensions (mm):		
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A



at the second se	IEC 62368-1	t t	A.C.
Clause	Requirement + Test	Result - Remark	Verdict
1			
	Transportable equipment with metalized plastic parts		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts		N/A
P.4.2 a)	Conditioning testing		N/A
	Tc (°C):		
	Tr (°C):		
	Ta (°C):		
P.4.2 b)	Abrasion testing:		N/A
P.4.2 c)	Mechanical strength testing:		N/A

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Q	CIRCUITS INTENDED FOR INTERCONNECTION	I WITH BUILDING WIRING	N/A
Q.1	Limited power sources		N/A
Q.1.1 a)	Inherently limited output		N/A
Q.1.1 b)	Impedance limited output		N/A
	- Regulating network limited output under normal operating and simulated single fault condition	See appended table Annex Q.1	N/A
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		N/A
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



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1 1	IEC 62368-1	A. A	Ster.
Clause	Requirement + Test	Result - Remark	Verdict
	L X 2		
R.3	Test method Supply voltage (V) and short-circuit current (A)):		N/A

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	N/A
	Samples, material	
	Wall thickness (mm):	
	Conditioning (°C)	
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	- Material not consumed completely	N/A
	- Material extinguishes within 30s	N/A
	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
	Samples, material	
	Wall thickness (mm)	
	Conditioning (°C)	
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	Test specimen does not show any additional hole	N/A
S.3	Flammability test for the bottom of a fire enclosure	N/A
	Samples, material	
	Wall thickness (mm):	
	Cheesecloth did not ignite	N/A
S.4	Flammability classification of materials	N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	N/A
	Samples, material:	
	Wall thickness (mm):	
	Conditioning (test condition), (°C):	
	Test flame according to IEC 60695-11-20 with conditions as set out	N/A

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*	IEC 62368-1	IEC 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
	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
T.2	Steady force test, 10 N		Р
Т.3	Steady force test, 30 N		N/A
T.4	Steady force test, 100 N	(See appended table T.4)	Р
T.5	Steady force test, 250 N		N/A
T.6	Enclosure impact test		N/A
	Fall test		N/A
	Swing test		N/A
T.7	Drop test:	(See appended table T.7)	Р
T.8	Stress relief test:	(See appended table T.8)	Р
Т.9	Impact Test (glass)	Surface area not exceeding 0.1m ²	N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J):		
	Height (m):		
T.10	Glass fragmentation test		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)		

U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION	N/A
U.1	General requirements	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 (FINGERS, PROBES AND WEDGES)		Р
V.1	Accessible parts of equipment		Р
V.2	Accessible part criterion		Р



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•		4.		Rep	ort No. ST	S22102800100)1E
*	4		E	N 62368-1			- 4
Clause	Requirement	+ Test		Res	ult - Remark		Verdic
AL I	1 3	<u> </u>					
		AT	TACHMEN	NT TO TEST RE	PORT		
			, E	C 62368-1			
	EURO	PEAN GROUF	DIFFERE	NCES AND NAT	TIONAL DIFF	ERENCES	
(Audio	o/video, inform	nation and com	municatior	n technology equ	ipment - Part	1: Safety require	ements)
Differences	according to		EN 6236	8-1:2014+A11:2	017	*	STO
Attachment	Form No		EU_GD_	_IEC62368_1B_I		- Land	
Attachment	Originator	:	Nemko A	AS			
Master Attac	chment		Date 201	17-09-22			
		stem for Conf rights reserve		sting and Certifi	cation of Ele	ectrical Equipm	ent (IECEE)
~	CENELEC COMMON MODIFICATIONS (EN)					Р	
.1		clauses, notes :2014 are prefix		ures and annexe	s which are a	dditional to those	in P
CONTENTS	Add the follo	wing annexes:	¥				P
	Annex ZA (n	ormative)		ative references			
	Annex ZB (normative) with their corresponding European publications Special national conditions						
	Annex ZC (informative)A-deviationsAnnex ZD (informative)IEC and CENELEC code designations for flexible						
			cords		de designatio		
	Delete all the to the following		s in the ref	erence documen	t (IEC 62368-	1:2014) accordin	g P
	0.2.1	Note	1	Note 3	4.1.15	Note	-Sile
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	Ket -
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	
	For special r	national condition	ons, see Ar	nex ZB.	Ś	v	P
<u> </u>			, = = = = = =				

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×	EN 62368-1	×		
Clause	Requirement + Test	Result - Remark	Verdict	
	Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.	A stat	P	
4.Z1	Add the following new subclause after 4.9:		N/A	
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains , protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):		A COL	
	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;		- 4 ³	
	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;		4	
	c) it is permitted for pluggable equipment type B or permanently connected equipment , to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.			
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.		Let a	
5.4.2.3.2.4	Add the following to the end of this subclause:	t st	N/A	
	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.		*	
10.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.	t states	N/A	

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
0.5.1	Add the following after the first paragraph:		N/A
÷ ć	For RS 1 compliance is checked by measurement under the following conditions:	at the second seco	A.C.
	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.	et sret sr	AN COL
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.		
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.	Aritet Ar. Ar	~ ~ ~
	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.	with with with	
	For RS1, the dose-rate shall not exceed 1 μ Sv/h taking account of the background level.	* *	
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	the start of	
0.6.1	Add the following paragraph to the end of the subclause:	At and	N/A
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.		.ct
0.Z1	Add the following new subclause after 10.6.5.		N/A
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	the first	
	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).	it with	4 int
	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		it it
3 .7.1	Add the following note:	7	N/A
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	the state of	

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		EN 62368-1		
Clause	Requireme	ent + Test	Result - Remark	Verdict
Dibliggraphy	Add the following standar	day	$+ \dot{s}$	
Bibliography				
	-	or the standards indicated:		5
		E Harmonized as EN 60130-9		
		E Harmonized as HD 60269-2		
		E Harmonized as EN 60309-1		X
		some parts harmonized in H		
		Harmonized as EN 60601-2		4
		Harmonized as EN 60664-5		
		Harmonized as EN 61032:19		
		Harmonized as EN 61508-1		
		Harmonized as EN 61558-2		<u> </u>
		Harmonized as EN 61558-2		
		Harmonized as EN 61558-2		
		Harmonized as EN 61643-1		
		Harmonized as EN 61643-2		- 5
		Harmonized as EN 61643-3		
		Harmonized as EN 61643-3		
	IEC 61643-331 NOTE	Harmonized as EN 61643-3	31.	
ZB	ANNEX ZB, SPECIAL N	ATIONAL CONDITIONS (EN	V)	Р
4.1.15	Denmark, Finland, Norw	ay and Sweden		N/A
	To the end of the subclau	se the following is added:		6
	Class I pluggable equip			
	connection to other equip			
	if safety relies on connect if surge suppressors are c			
	network terminals and ac			X
	marking stating that the ed			
	connected to an earthed r			4
	The marking text in the ap be as follows:	plicable countries shall		
	In Denmark :	· ·		
	"Apparatetsstikpropskaltils	sluttesenstikkontakt med		
	jordsom giver forbindelset			
	In Finland: "Laite on			
	liitettäväsuojakoskettimilla	varustettuunpistorasiaan		
				X
	In Norway: "Apparatetmå			
	In Sweden: "Apparatensk jordatuttag"	alianslutas till		
	norualullau			1



	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
		-	
4.7.3	United Kingdom		N/A
	To the end of the subclause the following is added:		
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex		*
5.2.2.2	Denmark		N/A
	After the 2nd paragraph add the following:		
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Finland and Sweden		N1/A
5.4.11.1 and Annex G			N/A
	To the end of the subclause the following is added:		5
	For separation of the telecommunication network from earth the following is applicable:		
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either		
	 two layers of thin sheet material, each of which shall pass the electric strength test below, or 		4
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.		
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		< 7 - 4 - 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		
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.		A.C.
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		, et
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:		4
	• 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;		4 Cat
	• the additional testing shall be performed on all the test specimens as described in EN 60384-14;		et .
	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.		4



	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.5.2.1	Norway After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	AND AND	N/A-
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added: Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipmenttype A shall comply with G.10.1 and the test of G.10.2.	whet whet	N/A
5.6.1	DenmarkAdd to the end of the subclauseDue to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	Arter Arter Arter	N/A
5.6.4.2.1	Ireland and United KingdomAfter the indent for pluggable equipment type A, the following is added:- theprotective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	t with with	N/A
5.6.5.1	To the second paragraph the following is added: 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.	Ariet Ariet	N/A
5.7.5	Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	with with	N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.1	Norway and Sweden To the end of the subclause the following is added:		N/A
	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.	at the share	AND AND
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.		
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:		
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-	with with with	
	11)" NOTE In Norway, due to regulation for CATV- installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	t with with	ATEL
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	t stor t	
	"Apparatersomerkoplettilbeskyttelsesjord via nettpluggog/eller via annetjordtilkopletutstyr – ogertilkoplet et koaksialbasertkabel-TV nett, kanforårsakebrannfare. For å unngådetteskaldetvedtilkoplingavapparatertilkabel- TV nett installeresengalvanisk isolator mellomapparatetogkabel-TV nettet."	with with	sat s
	Translation to Swedish:		-
	"Apparatersomärkopplad till skyddsjord via jordatvägguttagoch/eller via annanutrustningochsamtidigtärkopplad till kabel- TV nätkanivissa fall medfőra risk főr brand. Főrattundvikadettaskall vid anslutningavapparaten till kabel-TV nätgalvanisk isolator finnasmellanapparatenochkabel-TV nätet.".	ATTEN ATEN AT	at states

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

	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.4.2	United Kingdom		N/A
	To the end of the subclause the following is added:		
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		A.
G.7.1	United Kingdom		N/A
	To the first paragraph the following is added:		- 4
	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.		4
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	AT ATEN	4
G.7.1	Ireland		N/A
	To the first paragraph the following is added:		
ATT	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	t with with	- Nicht
G.7.2	Ireland and United Kingdom	F 2	N/A
	To the first paragraph the following is added:		
	A power supply cord with a conductor of $1,25 \text{ mm}^2$ is allowed for equipment which is rated over 10 A and up to and including 13 A.		

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	EN 60260 1		
	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
			·
2C	ANNEX ZC, NATIONAL DEVIATIONS (EN)	· ~	N/A
0.5.2	Germany The following requirement applies:	at what	N/A
	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.		A COL
	<i>Justification:</i> German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.		
	NOTE Contact address: Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig,		
	Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de		



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Report No. STS221028001001E

7			IEC 6236	8-1		7	
Clause	¥	Requirement	+ Test	Result	t - Remark	Verdict	
	V					×	
4.1.2	TABL	E: List of critical com	ponents	~	×	Р	
Object / part	No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹	
РСВ		Interchangeable	Interchangeable	V-0, 130°C	UL 796	UL	
Lithium ion polymer batt	tery	Shenzhenshi Jiuliyuan Electronic Technology Co., LTD	Li416587JLY	3.85Vdc, 4480mAh, 17.248Wh	IEC/EN 62133- 2:2017	CB cer No.:JPTUV- 140959 Test report No.: CN22ST8M 001	
-Cell		Amperex Technology Limited	416587	3.85Vdc, 4480mAh	IEC 62133- 2:2017, IEC 62133-2: 2017/ AMD1:2021	Test report No.: CN22ST8M 001	
Adapter	A.C.	Guangdong Quanzhi Technology Co., Ltd.	QZ-01800EA00	Input: 100-240V~, 50/60Hz, 0.5A Output:5VDC, 3A, 7/9VDC, 2A, 12VDC, 1.5A	EN 62368-1	Lepont test report no.: LP2210013 9C01-02	
LCD panel		CPT Technology (Group)Co.,Ltd	065WK05	6.56",Max.400cd/m 2	IEC/EN 62368-1	Tested with appliance	
Flash LED		ANHUI RETOP ELECTRONICS CO., LTD	NLW1016AV1*	3VDC,150mA, Exempt Group	IEC 62471: 2006 EN 62471: 2008	SGS Report No.: SHES22010 0197571	
Speaker		Interchangeable	Interchangeable	1W, 7 ohm ± 15%	IEC/EN 62368-1	Tested with appliance	
Vibration mo	otor	Guangxi WeiYiTong Electronic Technology Co.,Ltd.	VICR0827	DC 3.0V, 80mA max. 12000±3000rpm	IEC/EN 62368-1	Tested with appliance	
Plastic Enclo	osure	SABIC INNOVATIVE PLASITCS B V	EXRL0246 (GG) DMX9455 (GG)	80°C, V-0, 1.5mm thickness Min.	UL 94	UL E45329	

Supplementary information:

1) an asterisk indicates a mark which assures the agreed level of surveillance.

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		EN EN	62368-1		
Clause	<u>ل</u>	Requirement + Test		Result - Remark	Verdict
			- 1	<	
4.8.4, 4.8.5	TABLE: L	ithium coin/button cell batter	ries mechanic	al tests	N/A
(The follow	ving mechanica	al tests are conducted in the sec	quence noted.)		
4.8.4.2	TABLE: St	ress Relief test	4	•	
F	Part	Material	Ove	n Temperature (°C)	Comments
Ļ		~	X	<u> </u>	
4.8.4.3	TABLE: Ba	attery replacement test	5		_
Battery pa	rt no		:		_
	stallation/witho			stallation/Removal C	ycle Comments
×	5			< 1	
			4	2	ب - ج
				<u> </u>	
				4	
				5	x - x
				6	1
				8	
				9	X
			2	10	
1.8.4.4	TABLE: Dro	op test			- 1
mpact Are	ea	Drop Distance		Drop No.	Observations
4		× - ×	5	1	
	- *	<u> </u>		2	
A.	- 2			3	
4.8.4.5	TABLE: Im	pact			_
Impacts	per surface	Surface tested	Im	pact energy (Nm)	Comments
×		<u> </u>		\ - \	
1.8.4.6	TABLE: Cr	ush test	2	×	
Test	position	Surface tested	Ci	rushing Force (N)	Duration forc applied (s)

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				Report No.	STS221028001001E	
			EN 62368-1	*		4
Clause	*	Requirement + Test		Re	sult - Remark	Verdict
07	NV.			<i>() ()</i>		

4.8.5	TABLE: Lith	ABLE: Lithium coin/button cell batteries mechanical test result						
Test p	osition	Surface tested		Force (N)		Duration force applied (s)		
		×- ×	7			4		
Supplemen	tary informatior			×		~ `		

5.2	Table:	Classification of	electrical energy source	S			Р	
5.2.2.2 – Steady State Voltage and Current conditions								
		Leastion (s. s.		F	Parameters			
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	U (Vrms or Vpk)	l (Apk or Arms)	Hz	ES Class	
			Normal	-	<u>Ka</u>	4	ES1	
	Max.12V		Abnormal:	2		-	(declaratio	
			Single fault:			4	n)	

	5.2.2.3 -	Capacitance	Limits					
$\langle \rangle$	N La	Supply	Location (e.g.	T		Parameters		
	No.	Voltage	circuit designation)	Test conditions	Capacitance	e, nF	Upk (V)	ES Class
		*		Normal:		1		
•	-4		"	Abnormal:				<u> </u>
			of the	Single fault: SC/OC	× -	S.C.	7	4
	5.2.2.4 -	Single Pulse	S					
		Supply	Location (e.g.	-		Parameters		
	No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class
	×		<u></u>	Normal	<u> </u>			+ 0

--

--

Abnormal

Single fault – SC/OC --

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		•		<u>_</u>	EN 62368-1			22102800100	
				Test	EN 02300-1		Dest		Mandat
Cla	use	1	Require	ment + Test		1	Result - F	Remark	Verdict
5.2.2.5	5 - Re	petitive I	Pulses			~			
	Sup	<u>.</u>	Location (e.g.		Parameters		3		
No.	Volt		circuit designation)	Test condition	ons Off time	e (ms)	Upk (V)	lpk (mA	ES Class
-				Normal	<u>~ ~</u>				
				Abnormal			- *		<u> </u>
	1. L			Single fault - SC/OC		Ļ		4 ²	
		Abr tary infor	rmal – normal - rmation: SC=Sho ch voltage was m			ice was	ignited.	4 ⁷¹⁶ 4	
				2			L /		
5.4.1.4 6.3.2, B.2.6		TABLE	: Thermal requir	rements					Р *
		Supply	voltage (V)		Condition 1	Cor	ndition 2	- 5	_
		Ambien	t T _{min} (°C)	:	See below	See	e below		—
		Ambien	t T _{max} (°C)	:	See below	Se	e below	- 4	_
		Tma (°C	C)		See below	See	e below		
Maxim part/at			d temperature T			T	Г (°С)		Allowed T _{ma} (°C)
PCB r	near l	J2101			43.9		41.7		130
PCB r	near l	J500		× 5	38.6		37.2	5	130
Batter	y boc	ly			35.2 🟑		34.0		Ref.
Enclosure inside near battery			33.5		32.5	*	Ref.		
Enclos	sure o	outside r	near battery		32.7		31.9	<u></u>	48
Enclos	sure o	outside r	near DC inlet	~	36.1		27.9		48
Buttor	ו	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4	1	29.6		30.2		48
	n				33.4		33.7	<u> </u>	48
Scree									
Scree Adapt		closure	×	7	38.2		なる		77

L 4'			Report	No. ST	S22102	800100)1E
	É	N 62368-1	1			A.	4
Clause Requirement	+ Test			Result	- Remark		Verdict
		4		Ċ.			~
Supplementary information:							
Condition 1: the most unfavorable charging condition.							
Condition 2: discharging full battery, normal operation.							
* *	•	(5	•		
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allo	Insulation
		. ,				wed	class
						T _{max}	
						(°C)	
		\$					
Supplementary information:	~						1 S

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics						
Penetration (mm):						
Object/ Part No./Material	Manufacturer/t rademark	T softening (°C)				
			5			
Supplementary information:			-			

5.4.1.10.3 TABLE: Ball pre	4.1.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed impression diameter	(mm):	≤ 2 mm						
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression diameter (mm)					
- * *		- ~						
Supplementary information:			A 2					

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum C	learance	s/Creepa	ge distance	4		t	N/A
	l) and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequency (kHz)#	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Basic/supple	mentary insulation	7		1.	~			t V
			÷	<u>- `</u>		人	🔨	
Reinforced in	sulation	2			~			
								7

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				Report No.	STS221028001001E	
		L AF E	N 62368-1			4
Clause	X	Requirement + Test		Re	sult - Remark	Verdict

Supplementary information:

(#) Frequencies above and below 30 kHz

Note 2: BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation. *: According to 5.4.1.8.1 i), the working voltage to determine minimun creepage distances was measured after the ignition of the lamp.

5.4.2.3	TABLE: Minimum Clearances d	istances using requi	red withstand volta	ge N/A
5	Overvoltage Category (OV):			
	Pollution Degree:	,	1 ×	<u> </u>
Clearance	distanced between:	Required withstand voltage	Required cl (mm)	Measured cl (mm)
Basic / sup	plementary insulation	~ ~		4 4
			* - *	
Reinforced	insulation		<u> </u>	
<u></u>	~ *	<u></u>		<u></u>
Supplemen	tary information:			5

1. BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation;

5.4.2.4	TABLE: Clearances base	d on electric strength	n test		N/A
Test voltage	e applied between:	Required cl (mm)	Test voltage (Kv) peak/ r.m.s. / d.c.	Breakd Yes /	-
	4	- /	÷ ,		A.C.
Supplement	ary information: Not used the	e alternative method to	determine the clearanc	es.	7

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distan	ce through insulation	n measurem	ents		N/A
Distance the di at/of:	rough insulation	Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)
	2. 2		-			<u> </u>
Supplement	tary information:		7			2 2

5.4.9	TABLE: Electric strength tests			N/A
Test voltag	e applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes/No
Functional			2	5 2

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L '	2	F. F.	Report No.	STS22102800	1001E
	+	EN 62368-1			
Clause	Requirement + Test		Re	esult - Remark	Verdict
5.4.9	TABLE: Electric strength tests		•	.L	N/A
Test voltage	applied between:	Voltage sha (AC, DC		Test voltage (V)	Breakdown Yes/No
		* ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
Basic/supple	ementary:				
				* - ~	ζ
Reinforced:			- 2	4	
-				-	-
Routine Tes	its:		×		A A
Supplement	ary information:				

5.5.2.2	TABLE: St	ored discharg	e on capacitor	s		2	N/A
Supply Volt	age (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Clas	ssification
-	-	<u> - </u>					

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

OC- Opened circuit

5.6.6.2	6.6.2 TABLE: Resistance of protective conductors and terminations					
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
1		<u></u>			- '	
Suppleme	entary information:		A A	6	*	
	2					

5.7.2.2, TABLE: Earthed accessible conductive part

N/A

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	neport No.	STS221028001	1001E	
368-1				4
	Re	esult - Remark		Verdict
~				×
	·			-
IEC in IE	60990 or Fai C 60990 clai	It Condition No se 6.2.2.1		current nA)
	, A		<u>N</u>	I/A
	2	*	<u>N</u>	<u>l/A</u>
	ć	3	<u>N</u>	I <u>/A</u>
				I <u>/A</u>
1		5 🗸 🕻	<u>N</u>	I/A
		3	<u>N</u>	I <u>/A</u>
	8	3		I <u>/A</u>
	368-1	368-1 Ref Test conditions sp IEC 60990 or Fau in IEC 60990 clau through 6.2.2.8, e 1 2 3 4 5 6 6		368-1 Result - Remark 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 (m 1 N 2* N 3 N 4 N 5 N 6 N

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.

N: Normal condition, R: Reverse condition.

6.2.2	Table: Electrical	power sources	(PS) measurements for	or classification	Р	
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification	
2		Power (W) :	Z	- 4	5	
Battery pack output	^K Normal	V _A (V) :		A	PS2 (declaration)	
		I _A (A) :	*		(111111)	
	4 7	Power (W) :	5.1	(A A	
Type C output	Normal	V _A (V) :	1.12		PS1	
	×	I _A (A) :	4.64	× 4		
× ×	1 S	Power (W) :	0 2		*	
Type C output	SC 6125	VA (V) :	0		PS1	
		IA (A) :	0-			

CTC00100001001E

		neport No.	313221026001001E	
<7	EN 62368-1	~		4
Clause	Requirement + Test	Re	esult - Remark	Verdict
57		<i></i>		

Supplementary Information: SC: short circuit

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

(&) Power measurement for worst-case fault.

(#) Power measurement for worst-case power source fault.

6.2.3.1	Table: Determination	on of Potential Ign	ition Sources (Arc	ing PIS)	N/A
	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
	7 V.		<u>x</u> <u>x</u>		

Supplementary information:

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.

6.2.3.2	6.2.3.2 Table: Determination of Potential Ignition Sources (Resistive PIS)						
Circuit Lo	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	
Interna	l circuits		<100	>15		Yes	

Supplementary Information:

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.

8.5.5	TABLE: High Pressure Lamp		۲ N	I/A
Description		Values	Energy Source Classifi	cation
Lamp type		4		
Manufactur	er:	At .		
Cat no		+	_	
Pressure (c	cold) (MPa):		MS_	
Pressure (c	operating) (MPa)		MS_	-
Operating t	ime (minutes)	A 5 2	_	

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		Report No.	STS2210280010	01E
	EN 62368	3-1		4
Clause	Requirement + Test	Re	esult - Remark	Verdict
Explosion met	thod:	2		_
Max particle le	ength escaping enclosure (mm).:			1S_ 🤝
Max particle le	ength beyond 1 m (mm):			1S_
Overall result		<u>2</u> , <u>6</u>		X
Supplementar	ry information:		L A	51 4

B.2.5	TABLE:	Input test						Р
U (V)	I (A)	Irated (A)	P (W)	P rated (W)	Fuse No	Ifuse (A)	Condition/s	tatus
5Vdc	2.14	3	10.7			st.	Empty battery On Battery current: 2	
7Vdc	1.46	2	10.2	- 4			Empty battery On Battery current: 2	
9Vdc	1.14	2	10.3			-	Empty battery On Battery current: 2	
12Vdc	0.93	1.5	11.2	-	- 4	- 4	Empty battery On Battery current: 1.	
5Vdc	0.82	3	4.1		-	-	Empty battery cha EUT running. Ba current: 0.403A	
7Vdc	0.61	2	4.3		4	-	Empty battery cha EUT running. Ba current: 0.106A	
9Vdc	0.56	2	5.1		<u>s</u> t	_ 4	Empty battery cha EUT running. Ba current: 0.427A	
12Vdc	0.43	1.5	5.16	- ~ ~ ~	t.		Empty battery cha EUT running. Ba current: 1.175 A	
4.4Vdc	4			- 4			Fully battery disch Battery current: 2	

B.3

TABLE: Abnormal operating condition tests

Ρ

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					Rep	oort No.	STS22102800100	1E				
		*		EN	62368-1			4				
Clause	* \$	Require	ment + Te	st		Res	sult - Remark	Verdict				
Ambient temperature (°C) See below												
Power source for EUT: Manufacturer, model/type, output rating .: See cover page for details												
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	e Temp. (°C)	Observation				
Speaker	SC	Fully battery	10Mins		with	THE THE	A ANTER AN	Speaker shut down and other function as normal operation NO damaged on hazards.				

Supplementary information: SC = short circuit.

*	1 4	V.						
B.4	TABLE: Fa	ult conditi	on tests					Р
Ambient tempera	ature (°C)				:	25.0		
Power source for	r EUT: Manu	facturer, m	odel/type	, output	rating .:	See cover details	page for	—
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
Charging with en	npty battery	3						
Battery	Overchar ge	12Vdc	7hrs	¥-	S.C.	- 1	-	Unit was normal operation, no damaged, no hazard.
Battery B- to P- (battery)	Short circuit, Overchar ge	12Vdc	7hrs		A.C.	A.	- 1	Unit was normal operation, no damaged, no hazard.
R2106	S-C	12Vdc	10mins		¢†	AT CAL	1	Normal working, recoverable, no damage, no hazards.
R648	S-C	12Vdc	10mins	-		AT -	ter ter	Normal working, recoverable, no damage, no hazards.
C609	S-C	12Vdc	10mins	4				Unit Shut down rapidly and recoverable, no damage no hazard.

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					Rep	ort No. ST	FS221028	001001E
			*	EN 623	68-1		1	
Clause		Requiremer	nt + Test		4	Result	- Remark	Verdict
C5210	S-C	12Vdc	10mins		N N	-	-	Unit Shut down rapidly and recoverable, no damage no hazard.
Discharging wit	h full charged	battery		X		<u> </u>		4
Battery	Over- discharge	Fully battery	7hrs		4	at	- ATEX	Unit was normal operation, no damaged, no hazard.
Battery B- to P- (battery)	Short circuit, Over- discharge	Fully battery	7hrs			<u> </u>		Unit was normal operation, no damaged, no hazard.
R2106	S-C	Fully battery	10mins	4		×+ 	<u>_</u>	Normal working, recoverable, no damage, no hazards.
R648	S-C	Fully battery	10mins	4	- 4	-		Normal working, recoverable, no damage, no hazards.
C609	S-C	Fully battery	10mins	AN COL	The second		,	Unit Shut down rapidly and recoverable, no damage no hazard.
Motor	Locked	Fully battery	7hrs					EUT no ignition of the wrapping cheesecloth.

Supplementary information:

- CD Components damaged (list damaged components)
- NB No indication of dielectric breakdown.
- NC Cheesecloth remained intact.
- NT Tissue paper remained intact.

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					EN 62368-	1				
Clause	*		Requiren	nent + Test			Result -	Remark		Verdict
Annex M	TABLE	: Batte	eries	*	t.	A.C.	ę		L	Р
The tests of	Annex N	A are a	pplicable	only when ap	propriate b	attery data	is not ava	ilable 🦯		۲
s it possible	to insta	ll the b	attery in a	reverse pola	arity position	1?		No 🤝		
	N	on-rec	hargeable	batteries		Re	echargeab	le batteries	3	
		Discha	arging	Un-	Char	ging	Disch	arging	Revers	ed chargir
		eas. rrent	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	
Max. current during norma condition					2104mA	5376mA	2361mA	5376mA	-	
Max. current during fault condition SC J6103 PinA ⁻ E4	;	2_	<u>1</u>	AND A	2471mA	5376mA	×	<u>.</u>		
Max. current Juring fault condition SC J3101 Pin3- 20	;	2	et .	AN EL	AN FEL	4	3184mA	5376mA	ATEL	4
Fest results:					<u>,</u>	~				Verdict
Chemical le	eaks	7	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					NO		Р
Explosion of	of the ba	ittery				L N				P
Emission o	of flame of	or expl	ulsion of m	olten metal		0		NO		Ϋ́Ρ
Electric stre	ength te	sts of e	equipment	after comple	tion of tests	;		~		
Supplement	ary infor	mation	: 4			1×	2		·	
	4				2					
	Table: batterie		onal safeg	juards for e	quipment c	ontaining	secondary	y lithium	4	Р
Battery/0	Cell		Test con	ditions		Meas	urements		0	bservation
No.					U (V)	I (A)	Te	mp (°C)		
1	~	Norm	nal	2	4.43	2.104	Battery s Ambient	surface:35. :: 25.0		damaged, azard.
2		Abno	rmal (after	drop test)	4.43	2.106	Battery s	surface: 36		damaged, azard.

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	EN 62368	3-1			2	
Clause	Requirement + Test		Result - Ren	nark	Verdie	ct
3	Single fault: U6103 PinA1- 4.43 E4 SC	2.471	Battery surfa Ambient: 25.		lo damaged o hazard.	,
For battery cell: - Highest	Information: SC = short circuit. specified charging temperature: 60°C specified charging temperature: 0°C	Fift	ANTER A	4	AN ^{icht}	Υ.
	m specified charging current: 5.376A m specified charging voltage: 4.43V	de la	4 ⁴⁰ 4		·	

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
Li-ion battery	10	Charging current: 0.125A	60	Charging current: 0A

Supplementary Information: The battery's ambient temperature did not exceed the highest and lowest specified charging temperature under normal operating conditions, abnormal operating conditions or single fault conditions.

Annex Q.1	TABLE: Circuits inte	nded for interco	onnection with	building wirin	g (LPS) 🤝	N/A
Note: Meas	ured UOC (V) with all lo	ad circuits disco	nnected:	~ ~	4	
Output	Components	U _{oc} (V)	I _{sc}	(A)	S (\	VA)
Circuit			Meas.	Limit	Meas.	Limit
			L	-1		No.
		- *	-			1
			1			
Supplemen	tary Information:		x	S		1

T.2, T.3, T.4, T.5	TABLE: S	Steady for	ce test			★ Street € P
Part/Lo	cation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Bottom of e	nclosure		🔏	100N	5	No damaged, no hazard
Side of enc	losure		6	100N	5	No damaged, no hazard
Supplement	tary inform	ation:			t st	

T.6, T.9 TABLE: Impact tests

N/A

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		EN	62368-1			
Clause	Requirem	nent + Test	,	Result -	Remark	Verdict
Part/Location	Material	Thickness (mm)	Vertical distance (mm)		Observation	
	<u> </u>		🖈		<u> </u>	
Supplementary info	ormation:	×		~		<u>مل</u>
~						A C

Т.7	TAB	LE: Drop tests			P	
Part/Locati	on	Material	Thickness (mm)	Drop Height (mm)	Observation	
СТор		Plastic		1000	No damage, no hazard.	Q
Side		Plastic	-	1000	No damage, no hazard.	
Bottom		Plastic		1000	No damage, no hazard.	6
Supplementa	ary inf	formation:		5	<i>Š</i>	

T.8 1	T.8 TABLE: Stress relief test					
Part/Location		Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation	
Plastic enclose	ure Plastic		70	7	No damaged, no hazard.	
Supplementary information:			X X	5		

Supplementary information:

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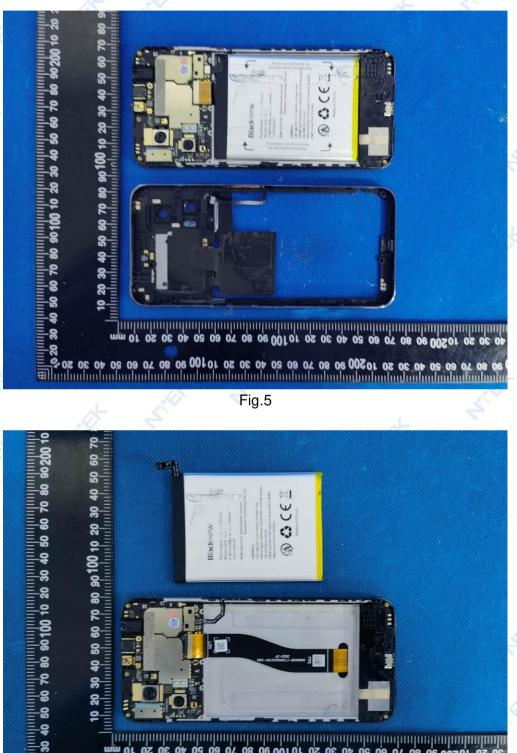


Fig.3

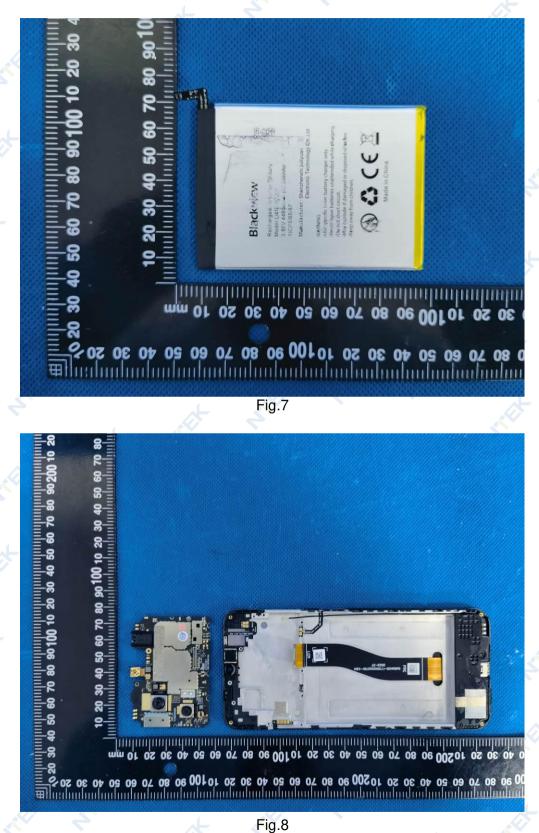


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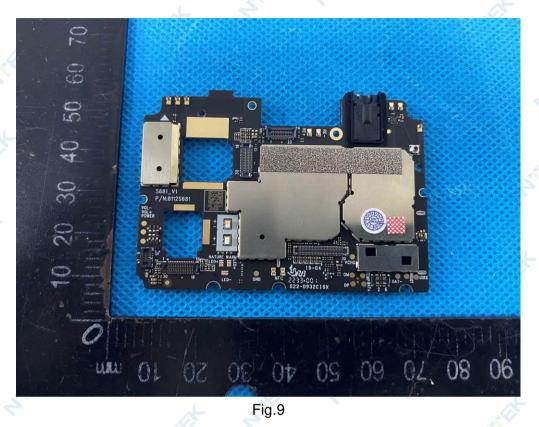


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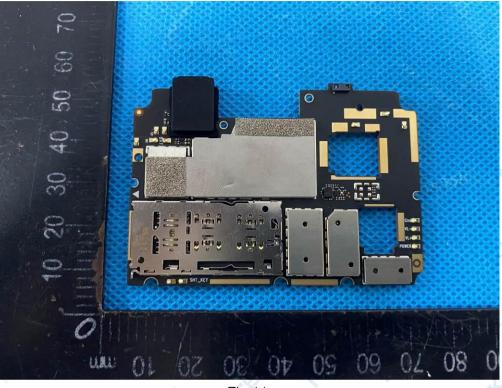
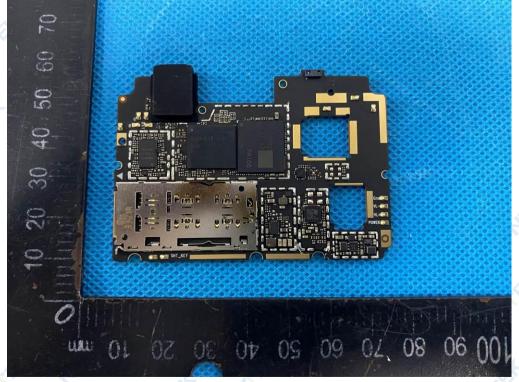


Fig.11





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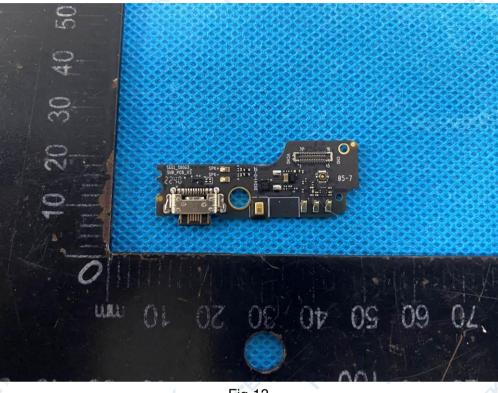
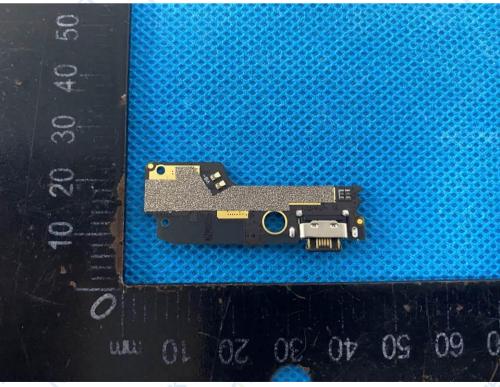


Fig.13



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Fig.15

END OF REPORT