TEST REPORT

Report No.:	STS230306002001E
Product:	Smart phone
Model No.:	BV9300
Applicant:	DOKE COMMUNICATION (HK) LIMITED
Address:	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA
Issued by:	Shenzhen NTEK Testing Technology Co., Ltd.
Lab Location:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China
Tel:	400-800-6106, 0755-2320 0050 / 2320 0090

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TEST REPORT IEC/EN62368-1

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

Report Number:	STS230306002001E
Tested by (+ signature):	Helen Lin Achulin Henson Dong Henson Dung
Approved by (+ signature)	Henson Dong Henson Dung
Date of issue	2023-04-10
Testing laboratory:	Shenzhen NTEK Testing Technology Co., Ltd.
Address	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126P.R. China
Testing location	Same as above
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
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Test item	
Description	Smart phone
Trade Mark	Blackview
Manufacturer	Shenzhen DOKE Electronic Co.,Ltd
Address:	801, Building 3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China
Model/Type reference	BV9300
Ratings	DC5.0V/3.0A or by battery 3.85V 15080mAh 58.058Wh)

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TEST ITEM PARTICULARS:			
Classification of use by	 Ordinary person Instructed person Skilled person Children likely to be present 		
Supply Connection	□AC Mains □DC Mains ⊠External Circuit - not Mains connected -⊠ES1 □ES2 □ES3		
Supply % Tolerance	□+10%/-10% □ +20%/-15% □+%/% ⊠ None		
Supply Connection – Type	 pluggable equipment type A - non-detachable supply cord appliance coupler direct plug-in mating connector pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector ⊠ other: DC connector 		
Considered current rating of protective device as part of building or equipment installation	N/A (Not directly connected to mains) Installation location:building;equipment movable hand-heldtransportable		
Equipment mobility	movable hand-held transportable stationary for building-in direct plug-in rack-mounting wall-mounted		
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV⊠other:(Not directly connected to mains)		
Class of equipment	🗌 Class I 🔄 Class II 🛛 Class III		
Access location	\Box restricted access location \boxtimes N/A		
Pollution degree (PD)	□ PD 1 🖾 PD 2 🔷 🗌 PD 3		
Manufacturer's specified maxium operating ambient :	40°C		
IP protection class			
Power Systems			
Altitude during operation (m)	⊠2000 m or less		
Altitude of test laboratory (m)	□2000 m or less 🛛500 m 🛛 🔶		
Mass of equipment (kg):	Approx. 0.517kg		
POSSIBLE TEST CASE VERDICTS:			
- test case does not apply to the test object:	N/A ~ _		

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- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	* 5
Date of receipt of test item:	2023-03-09
Date (s) of performance of tests:	2023-03-10 to 2023-04-04

GENERAL REMARKS:

"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.

Throughout this report a \Box comma / \boxtimes point is used as the decimal separator.

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) Same as manufacturer

GENERAL PRODUCT INFORMATION:

Product Description -

1. The product is Smart phone, which supplied by a built-in Li-ion battery and shall be charged by a suitable rated, and certified external DC power supply according to IEC/EN 62368-1 via a type C port.

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

Copy of marking plate:

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



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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

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

Electrically-caused injury (Clause 5):

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

Example: +5 V dc input	ES1
Source of electrical energy	Corresponding classification (ES)
All internal circuits	ES1
Micro USB	ES1 -
Charger output	ES1
Battery output	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 port	🕹 PS1		

Injury caused by hazardous substances (Clause 7)

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

Example. Liquid in filled component	Giycol	
Source of hazardous substances	Corresponding chemical	
Battery pack	Complied with annex M	

Mechanically-caused injury (Clause 8)

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

Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and corners of accessible parts	MS1
Product mass	MS1

Thermal burn injury (Clause 9)

(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.) Example: Hand-held scanner – thermoplastic enclosure TS1

Source of thermal energy	Corresponding classification (TS)
Accessible parts	TS1

Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1

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Type of radiation		Corresponding	Corresponding classification (RS)					
LED		S RS1		X				
Acoustic		RS2	×	5				
	ENERG	Y SOURCE DIAGRAM						
Indicate which energy source	es are included in the	energy source diagram In	sert diagram	helow				

 $\square ES \square PS \square MS \square TS \square RS$

OVERVIEW OF EMPLOYEDSAFEC	BUARDS				
Clause Possible Hazard					
5.1	Electrically-caused injury				
Body Part	Energy Source	Safeguards			
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplement ary	Reinforced(En closure)	
Ordinary person, Skilled person	ES1: Internal circuits ES1: Micro USB port	N/A	N/A	N/A	
6.1	Electrically-caused fire	•	•		
Material part	Energy Source		Safeguards		
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplement ary	Reinforced	
Internal combustible material/ internal plastic enclosure	PS2: Internal circuits PS2: Battery output PS1: type C port	For "N" and "A" conditions: 1, No ignition occurred. 2, No parts exceeding 90% of its spontaneo us ignition temperatu re.	For "S" condition: 1, PCB is complied with V-0 material. 2, All other components: at least V-2 except for mounted on min. V-1 material or small parts of combustible material. 3, V-0 internal plastic enclosure provided.	N/A	
7.1	Injury caused by hazardous	rdous substances			
Body Part	Energy Source	Safeguards			
(e.g., skilled)	(hazardous material)	Basic	Supplement ary	Reinforced	

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Complied with annex M	N/A	N/A	N/A	
Mechanically-caused injury				
Energy Source	Safeguards			
(MS3:High Pressure Lamp)	Basic	Supplement ary	Reinforced (Enclosure)	
MS1: Sharp edges and corners of accessible parts	N/A	N/A	N/A	
MS1: Product mass	– N/A	N/A	N/A	
Thermal Burn				
Energy Source		Safeguards		
(TS2)	Basic	Supplement ary	Reinforced	
TS1: Accessible parts	N/A	N/A	N/A	
Radiation				
Energy Source	Safeguards			
(Output from audio port)	Basic	Supplement ary	Reinforced	
RS1: LED	N/A	N/A	N/A	
RS2: Acoustic	Warning: "Listening at high volume for long periods may damage your hearing" will appear when the sound exceeds	N/A	N/A	
	Mechanically-caused injuryEnergy Source (MS3:High Pressure Lamp)MS1: Sharp edges and corners of accessible partsMS1: Product massThermal BurnEnergy Source (TS2)TS1: Accessible partsRadiationEnergy Source (Output from audio port)RS1: LED	Mechanically-caused injuryEnergy Source (MS3:High Pressure Lamp)BasicMS1: Sharp edges and corners of accessible partsN/AMS1: Product massN/AThermal BurnEnergy Source (TS2)BasicTS1: Accessible partsN/ARadiationEnergy Source (Output from audio port)MS1:RS1: LEDN/ARS2: AcousticWarning: "Listening at high volume for long periods may damage your hearing" will appear when the sound	Mechanically-caused injuryEnergy Source (MS3:High Pressure Lamp)SafeguardsBasicSupplement aryMS1: Sharp edges and corners of accessible partsN/AN/AMS1: Product massN/AN/AMS1: Product massN/AN/AThermal BurnEnergy Source (TS2)Safeguards SafeguardsEnergy Source (TS2)BasicSupplement aryTS1: Accessible partsN/AN/ARadiationEnergy Source (Output from audio port)Safeguards BasicRS1: LEDN/AN/ARS2: AcousticWarning: "Listening at high volume for long periods may damage your hearing" will appear when the soundN/A	

Supplementary Information:

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

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

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Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	P
4.1.2	Use of components	(See appended table 4.1.2)	P
4.1.3	Equipment design and construction		Р
4.1.15	Markings and instructions:	(See Annex F)	Р
4.4.4 🔨	Safeguard robustness		P
4.4.4.2	Steady force tests:	(See Annex T.4)	P
4.4.4.3	Drop tests:	(See Annex T.7)	Р
4.4.4.4	Impact tests		N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	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)	P
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	t t	Р
4.6.1	Fix conductors not to defeat a safeguard		Р
4.6.2	10 N force test applied to		Р
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)	A S	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		N/A
4	Means to reduce the possibility of children removing the battery		
4.8.4	Battery Compartment Mechanical Tests		N/A
4.8.5	Battery Accessibility	<u>ب</u> ب	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	Р

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	IEC/EN 62368-		
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		Р
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 ringing signals.	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	At A A	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	₹	N/A
5.3.2.2	Contact requirements		N/A
	a) Test with test probe from Annex V:		N/A
	b) Electric strength test potential (V)	K Y	N/A
5	c) Air gap (mm):		N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material		P
5.4.1.3	Humidity conditioning:	Hygroscopic material not used as insulation.	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	A 2	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A
5.4.1.5.3	Thermal cycling		S 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	Star &	N/A
5.4.1.10.2	Vicat softening temperature:		N/A
5.4.1.10.3	Ball pressure		N/A

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Clause	Requirement + Test	<u> </u>	Result - Remark	Verdict
5.4.2	Clearances			N/A
5.4.2.2	Determining clearance using peak working	ng voltage		N/A
5.4.2.3	Determining clearance using required wi voltage			N/A
	a) a.c. mains transient voltage	:	L At St	
	b) d.c. mains transient voltage	: ,		
5	c) external circuit transient voltage			
	d) transient voltage determined by meas		- At sta	
5.4.2.4	Determining the adequacy of a clearance electric strength test	e using an		N/A
5.4.2.5	Multiplication factors for clearances and voltages			N/A
5.4.3	Creepage distances		4	N/A
5.4.3.1	General	4	4	N/A
5.4.3.3	Material Group	:	t at all	
5.4.4	Solid insulation	×		N/A
5.4.4.2	Minimum distance through insulation			N/A
5.4.4.3	Insulation compound forming solid insula	ation		N/A
5.4.4.4	Solid insulation in semiconductor devices	S		N/A
5.4.4.5	Cemented joints	A		N/A
5.4.4.6	Thin sheet material			N/A
5.4.4.6.1	General requirements			N/A
5.4.4.6.2	Separable thin sheet material		~	N/A
<u></u>	Number of layers (pcs)	; 🤇		N/A
5.4.4.6.3	Non-separable thin sheet material	2		N/A
5.4.4.6.4	Standard test procedure for non-separa sheet material			N/A
5.4.4.6.5	Mandrel test	4		N/A
5.4.4.7	Solid insulation in wound components			N/A
5.4.4.9	Solid insulation at frequencies >30 kHz		SKY .	N/A
5.4.5	Antenna terminal insulation	A.C.	No such terminal	N/A
5.4.5.1	General	7		N/A
5.4.5.2	Voltage surge test			N/A
×	Insulation resistance (MΩ)		× ,	
5.4.6	Insulation of internal wire as part of supplementary safeguard	4	A A A	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
			Voluior
5.4.7	Tests for semiconductor components and for cemented joints	at the A	N/A
5.4.8	Humidity conditioning		N/A
	Relative humidity (%)		—
	Temperature (°C):		
	Duration (h):	C S	
5.4.9	Electric strength test	1	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	F 37 6	N/A
5.4.10	Protection against transient voltages between external circuit	No connection to external circuits with transient voltage.	N/A
5.4.10.1	Parts and circuits separated from external circuits	A S S	N/A
5.4.10.2	Test methods	5	N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test:		N/A
5.4.11	Insulation between external circuits and earthed circuitry:	No connection to external circuits with transient voltage.	N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
2 3	Rated operating voltage U _{op} (V)		
	Nominal voltage U _{peak} (V):		
	Max increase due to variation U _{sp} :		
	Max increase due to ageing ∆Usa:		
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$	A S	
5.5	Components as safeguards	* 5	
5.5.1	General		N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector		N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays	5	N/A
5.5.6	Resistors		N/A
5.5.7	SPD's		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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	At an	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	the set	N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation		N/A
5.6.3	Requirement for protective earthing conductors		N/A
~	Protective earthing conductor size (mm ²)	*	
5.6.4	Requirement for protective bonding conductors	× × ×	N/A
5.6.4.1	Protective bonding conductors	2	N/A
	Protective bonding conductor size (mm ²)		
Ĉ	Protective current rating (A)		
5.6.4.3	Current limiting and overcurrent protective devices	JAN ATHE A	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement		N/A
1	Conductor size (mm ²), nominal thread diameter (mm).	At at	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)		N/A
5.6.7	Reliable earthing	* 5	N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections	~	N/A
4.	System of interconnected equipment (separate connections/single connection):	A STATE	
x	Multiple connections to mains (one connection at a time/simultaneous connections)	4	—
5.7.4	Earthed conductive accessible parts	~ ~ ~ ~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N/A
5.7.5	Protective conductor current		N/A

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	Supply Voltage (V)	* 5	_	
X	Measured current (mA)	A S		
	Instructional Safeguard		N/A	
5.7.6	Prospective touch voltage and touch current due to external circuits	I at sta	N/A	
5.7.6.1	Touch current from coaxial cables	1 S S	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	t still still	N/A	
- Leve	a) Equipment with earthed external circuits Measured current (mA)	to the second	N/A	
	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	THE A. A.	N/A	

		4	
6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential in	gnition sources (PIS)	Р
6.2.2	Power source circuit classifications	4 4 A	Р
6.2.2.1	General		Р
6.2.2.2	Power measurement for worst-case load fault :	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	Р
6.2.2.4	PS1:	(See appended table 6.2.2)	Р
6.2.2.5	PS2:	(See appended table 6.2.2)	Р
6.2.2.6	PS3:	E .	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)	Р
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 of fire spread" is used.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	the set of	N/A
6.4.3.1	General		N/A
6.4.3.2	Supplementary Safeguards	· ·	N/A
	Special conditions if conductors on printed boards are opened or peeled	at the second	N/A
6.4.3.3 💉	Single Fault Conditions		N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits	2 2	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	5 7 N	N/A
6.4.7	Separation of combustible materials from a PIS		Р
6.4.7.1	General:		Р
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	2 2	Р
6.4.8	Fire enclosures and fire barriers		P
6.4.8.1	Fire enclosure and fire barrier material properties		Р
6.4.8.2.1	Requirements for a fire barrier	Fire enclosure provided	Р
6.4.8.2.2	Requirements for a fire enclosure	V-0 and metal 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		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions(mm)	L ART AT	N/A
X	Needle Flame test		N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	t states	N/A
.L	Flammability tests for the bottom of a fire enclosure:	A CONTRACTOR	N/A
6.4. <mark>8</mark> .3.5	Integrity of the fire enclosure, condition met: a), b) or c)	A - 4	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	V-0 and metal used	Р
6.5	Internal and external wiring		Р
6.5.1	Requirements	+ + 5	Р

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	IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
6.5.2	Cross-sectional area (mm ²):	Less than 0.5mm ²	_		
6.5.3	Requirements for interconnection to building wiring	the the	N/A		
6.6	Safeguards against fire due to connection to additional equipment	and the second	P		
	External port limited to PS2 or complies with Clause Q.1	at the s	Р		

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		Р
7.2	Reduction of exposure to hazardous substances	No hazardous substance is accessible.	N/A
7.3	Ozone exposure		- N/A
7.4	Use of personal safeguards (PPE)	A & 5	N/A
4	Personal safeguards and instructions:	2	_
7.5	Use of instructional safeguards and instructions		N/A
7	Instructional safeguard (ISO 7010)	x x x	_
7.6	Batteries:	(See appended tables Annex M)	Р

		517 1	
8	MECHANICALLY-CAUSED INJURY		Р
8.1	General		Р
8.2	Mechanical energy source classifications	A A	Р
8.3	Safeguards against mechanical energy sources		Р
8.4	Safeguards against parts with sharp edges and corners	AND C	P
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	, t	
8.5.4	Special categories of equipment comprising moving parts		N/A
8.5.4.1	Large data storage equipment	4	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media		N/A
8.5.4.2.1	Safeguards and Safety Interlocks		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

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Requirement + Test	Result - Remark	Verdict
Probe type and force (N)	* *	N/A
High Pressure Lamps	* * .	N/A
Energy Source Classification		N/A
High Pressure Lamp Explosion Test		N/A
Stability	Mass < 7kg	N/A
Product classification	MS1	N/A
Instructional Safeguard		_
Static stability		N/A
Static stability test	2 4 1	N/A
Applied Force	× ·	
Downward Force Test		N/A
Relocation stability test		N/A
Unit configuration during 10° tilt		
Glass slide test		N/A
Horizontal force test (Applied Force):		N/A
Position of feet or movable parts:	× 7 4	
Equipment mounted to wall or ceiling	K	N/A
Mounting Means (Length of screws (mm) and mounting surface)	the second secon	N/A
Direction and applied force:	K Z X	N/A
Handles strength		N/A
Classification	<u> </u>	N/A
Applied Force:	E C	N/A
Wheels or casters attachment requirements		N/A
Classification		N/A
Applied force	7 4	
Carts, stands and similar carriers	*	N/A
General		N/A
Marking and instructions		N/A
Instructional Safeguard:		
Cart, stand or carrier loading test and compliance	A 4	N/A
Applied force:	A 2	—
Cart, stand or carrier impact test	5	N/A
Mechanical stability		N/A
	Energy Source Classification High Pressure Lamp Explosion Test: Stability Product classification Instructional Safeguard: Static stability Static stability Static stability Static stability test Applied Force Downward Force Test Relocation stability test Unit configuration during 10° tilt Glass slide test Horizontal force test (Applied Force): Position of feet or movable parts: Equipment mounted to wall or ceiling Mounting Means (Length of screws (mm) and mounting surface) Direction and applied force	Energy Source Classification High Pressure Lamp Explosion Test

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IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
8.10.6	Thermoplastic temperature stability (°C):	A S	N/A	
8.11	Mounting means for rack mounted equipment	A S	N/A	
8.11.1	General		N/A	
8.11.2	Product Classification		N/A	
8.11.3	Mechanical strength test, variable N		N/A	
8.11.4	Mechanical strength test 250N, including end stops	(v. 4.	N/A	
8.12 🔷	Telescoping or rod antennas	(A	N/A	
	Button/Ball diameter (mm)		—	

9	THERMAL BURN INJURY	THERMAL BURN INJURY	
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		P
10.2	Radiation energy source classification	RS1	Р
10.2.1	General classification	* *	Р
10.3	Protection against laser radiation	No laser.	N/A
	Laser radiation that exists equipment:	* 5	_
	Normal, abnormal, single-fault	<u></u>	N/A
	Instructional safeguard	t (
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Tool		
10.4	Protection against visible, infrared, and UV radiation	LED light	Р
10.4.1	General		Р
10.4.1.a)	RS3 for Ordinary and instructed persons		N/A
10.4.1.b)	RS3 accessible to a skilled person		N/A
ALL.	Personal safeguard (PPE) instructional safeguard	4	
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	LED system unit comply with RS1	Р
10.4.1.d)	Normal, abnormal, single-fault conditions	Exempt group	Р
10.4.1.e)	Enclosure material employed as safeguard is opaque:	Safeguard is not required.	N/A
10.4.1.f)	UV attenuation	No UV.	N/A

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Claures	IEC/EN 62368-7	Dogult Domoria	\/===!:=!
Clause	Requirement + Test	Result - Remark	Verdict
10.4.1.g)	Materials resistant to degradation UV	No UV.	N/A
10.4.1.h)	Enclosure containment of optical radiation:	No required.	N/A
10.4.1.i)	Exempt Group under normal operating conditions	Exempt group	Р
10.4.2	Instructional safeguard	Not required.	N/A
10.5	Protection against x-radiation	No X-radiation.	N/A
10.5.1	X- radiation energy source that exists equipment :	(See appended table B.3 & B.4)	N/A
4	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards		N/A
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Instructional safeguard for skilled person	t .	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	the the the	
X	Abnormal and single-fault condition	1	N/A
ST.	Maximum radiation (pA/kg)	¥.	N/A
10.6	Protection against acoustic energy sources		Р
10.6.1	General		Р
10.6.2	Classification	RS2	P
	Acoustic output, dB(A)	4	N/A
* *	Output voltage, unweightedr.m.s.	Maximum volume: Right:119.0mV;Left: 119.0mV Warning: Right: 23.0V; Left: 23.1mV	Ρ
10.6.4	Protection of persons	2	P
AN CONTRACT	Instructional safeguards	 Symbol , "high sound pressure" or equivalent wording; 3. "hearing damage risk" or equivalent wording; 4. "do not listen at high volume levels for long periods" or equivalent wording. 	Ρ
at	Equipment safeguard prevent ordinary person to RS2	Automatically return to RS1 level when the power is switched off.	
45	Means to actively inform user of increase sound pressure	Warning: hearing damage risk or equivalent wording	
ا	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

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IEC/EN 62368-1					
Clause	Requirement + Test Result - Remark		Verdict		
10.6.5.1	Corded passive listening devices with analog input		N/A		
	Input voltage with 94 dB(A) LAeq acoustic pressure output :		_		
10.6.5.2	Corded listening devices with digital input		N/A		
	Maximum dB(A) :				
10.6.5.3	Cordless listening device	4 7	N/A		
	Maximum dB(A)				

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		Р
B.2	Normal Operating Conditions	See the following details.	P
B.2.1	General requirements	(See summary of testing and appended table)	Р
A.C.	Audio Amplifiers and equipment with audio amplifiers	Not such equipment.	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	N.	Р
B.3.1	General requirements	See below	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 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.		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	Р
B.4	Simulated single fault conditions		P
B.4.2	Temperature controlling device open or short- circuited	No such device used.	N/A
B.4.3	Motor tests		Р
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	the state of	N/A
B.4.4	Short circuit of functional insulation	(See appended table B.4)	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

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IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
B.4.4.3	Short circuit of functional insulation on coated printed boards		N/A	
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	Р	
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	Р	
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		P	
B.4.9	Battery charging under single fault conditions :	(See appended table M)	Р	

С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	A A A	N/A
C.1.2	Requirements	5	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus	<u></u>	N/A
C.2.4	Xenon-arc light exposure apparatus		N/A

	TEST GENERATORS				N/A
	Impulse test generators			7	N/A
	Antenna interface test generator	1	4		N/A
1	Electronic pulse generator			X	N/A
		Impulse test generators Antenna interface test generator	Impulse test generators Antenna interface test generator	Impulse test generators Antenna interface test generator	Impulse test generators Antenna interface test generator

E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions	N/A
4.	Audio signal voltage (V)	< _
	Rated load impedance (Ω)	—
E.2	Audio amplifier abnormal operating conditions	N/A

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	IEC/EN 62368-		
Clause	Requirement + Test	Result - Remark	Verdict
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	DINSTRUCTIONAL SAFEGUARDS	P
F.1	General requirements		Р
	Instructions – Language	Instructions in English arereviewed.	
F.2	Letter symbols and graphical symbols	1 × × ×	Р
F.2.1	Letter symbols according to IEC60027-1	K	Р
F.2.2 🔷	Graphic symbols IEC, ISO or manufacturer specific		Р
F.3	Equipment markings	* 5 *	Р
F.3.1	Equipment marking locations		Р
F.3.2	Equipment identification markings		Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	—
F.3.2.2	Model identification	See copy of marking plate	
F.3.3	Equipment rating markings	-	N/A
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains	Re Str E	N/A
F.3.3.3	Nature of supply voltage		
F.3.3.4	Rated voltage	2	
F.3.3.4	Rated frequency:		
F.3.3.6	Rated current or rated power		
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices		N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings:	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:		N/A
F.3.5.4	Replacement battery identification marking :	Provided the user manual.	Р
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		N/A
F.3.6.1.1	Protective earthing conductor terminal		N/A
F.3.6.1.2	Neutral conductor terminal	7	N/A
F.3.6.1.3	Protective bonding conductor terminals	* * *	N/A
F.3.6.2	Class II equipment (IEC60417-5172)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.2.1	Class II equipment with or without functional earth		N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking		N/A
F.3.7	Equipment IP rating marking:	IPX0	
F.3.8	External power supply output marking		Р
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	P
F.4	Instructions		P
	a) Equipment for use in locations where children not likely to be present - marking	* *	N/A
	b) Instructions given for installation or initial use		Р
	c) Equipment intended to be fastened in place		N/A
	d) Equipment intended for use only in restricted access area	ALL A	N/A
-	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		N/A
	f) Protective earthing employed as safeguard		N/A
A CH	g) Protective earthing conductor current exceeding ES 2 limits		N/A
4	h) Symbols used on equipment		Р
	i) Permanently connected equipment not provided with all-pole mains switch	AND A	N/A
AT CO	j) Replaceable components or modules providing safeguard function	A - 4	N/A
F.5	Instructional safeguards	Instructional safeguard is not required.	N/A
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction		N/A

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		IEC/EN 62368-1	Å
Clause	Requirement + Test	Result - Remark	Verdict
	A A	*	
G	COMPONENTS		Р

G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General requirements	No switches.	€N/A
G.1.2	Ratings, endurance, spacing, maximum load	1 1 1	N/A
G.2	Relays	A A	N/A
G.2.1 🔷	General requirements	No relays.	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power	+ 2 4	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)	4	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	At At A	N/A
G.3.1.2	Thermal cut-off connections maintained and secure		N/A
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal-links.	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
	Aging hours (H)		—
	Single Fault Condition		
	Test Voltage (V) and Insulation Resistance (Ω). :		—
G.3.3 🔊	PTC Thermistors		N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions	(See appended Table B.4)	N/A
G.4	Connectors		N/A
G.4.1	Spacings	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	STATE &	N/A
G.5	Wound Components		N/A
G.5.1	Wire insulation in wound components		N/A

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0			
Clause	Requirement + Test	Result - Remark	Verdict
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°		N/A
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test	A ST T	N/A
<u> </u>	Time (s):		_
	Temperature (°C):		_
G.5.2.3	Wound Components supplied by mains	F 37 4	N/A
G.5.3	Transformers		N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1):	the start of	N/A
1	Position:	<u></u>	_
<u>s</u>	Method of protection		_
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:		
G.5.3.3	Overload test:	× 7 7	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	A S	N/A
G.5.4	Motors		Р
G.5.4.1	General requirements		Р
	Position:	4	_
G.5.4.2	Test conditions	F	N/A
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test		N/A
	Test duration (days):		
G.5.4.5	Running overload test for d.c. motors in secondary circuits	t state	N/A
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; test time (h):	At white the	N/A
	Electric strength test (V):		
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		Р
G.5.4.6.2	Tested in the unit		Р

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	IEC/EN 62368-		
Clause	Requirement + Test	Result - Remark	Verdict
	Maximum Temperature:	(See appended table B.4)	N/A
¥	Electric strength test (V):	At I	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):		N/A
	Electric strength test (V):		N/A
G.5.4.7	Motors with capacitors	A S	N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage	+ 5 4	
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.7	Mains supply cords	4	N/A
G.7.1	General requirements	Not directly connected to mains	N/A
	Туре		
4	Rated current (A)	AN AN A	
	Cross-sectional area (mm ²), (AWG):		
G.7.2	Compliance and test method	2	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	At state	N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):	4	
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	1	_
G.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry:		N/A
G.7.5	Non-detachable cord bend protection		S N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g)		—
	Diameter (m):	1	_
4	Temperature (°C):		_
G.7.6	Supply wiring space		N/A
G.7.6.2	Stranded wire	4	N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors		N/A

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4	IEC/EN 62368-		6
Clause	Requirement + Test	Result - Remark	Verdict
G.8.1	General requirements	* *	N/A
G.8.2	Safeguard against shock	X X	N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test		N/A
G.8.3.3	Temporary overvoltage:	X X X	N/A
G.9	Integrated Circuit (IC) Current Limiters	× ~	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No IC current limiter provided within the equipment.	N/A
G.9.1 b)	Limiters do not have manual operator or reset	* 3 *	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		_
G.9.2	Test Program 1	~	N/A
G.9.3	Test Program 2	-	N/A
G.9.4	Test Program 3		N/A
G.10	Resistors	the the second	N/A
G.10.1	General requirements		N/A
G.10.2	Resistor test	5	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	with a state of	N/A
G.10.3.1	General requirements		N/A
G.10.3.2	Voltage surge test		N/A
G.10.3.3	Impulse test		N/A
G.11	Capacitor and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units	1	N/A
G.11.3	Rules for selecting capacitors	Å	N/A
G.12	Optocouplers		N/A
.¢t	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)		N/A
4	Type test voltage Vini:	<u>ب</u> ب	_
	Routine test voltage, Vini,b:		_
G.13	Printed boards	5	Р
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards		Р

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_	IEC/EN 62368-		6
Clause	Requirement + Test	Result - Remark	Verdict
G.13.3	Coated printed boards	* *	N/A
G.13.4	Insulation between conductors on the same inner surface	At An	N/A
	Compliance with cemented joint requirements (Specify construction):		
G.13.5	Insulation between conductors on different surfaces		N/A
~	Distance through insulation	(See appended table 5.4.4.5)	N/A
	Number of insulation layers (pcs)		_
G.13.6	Tests on coated printed boards	F 2 7	N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2a)	Thermal conditioning		N/A
G.13.6.2b)	Electric strength test	4 9 N	N/A
G.13.6.2c)	Abrasion resistance test	6	N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements		N/A
G.15	Liquid filled components	2 2	N/A
G.15.1	General requirements		N/A
G.15.2	Requirements	4	N/A
G.15.3	Compliance and test methods	+	N/A
G.15.3.1	Hydrostatic pressure test	K E X	N/A
G.15.3.2	Creep resistance test		N/A
G.15.3.3	Tubing and fittings compatibility test		N/A
G.15.3.4	Vibration test	F	N/A
G.15.3.5	Thermal cycling test		₹N/A
G.15.3.6	Force test		N/A
G.15.4	Compliance	¥ - 2 ,	N/A
G.16	IC including capacitor discharge function (ICX)		N/A
a) 🤝	Humidity treatment in accordance with sc5.4.8 – 120 hours	No such ICX provided within the equipment.	N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage	4	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes		N/A
C2)	Test voltage:		
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer		N/A

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	IEC/EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
D2)	Capacitance:	* 5	—
D3)	Resistance:	17 5	

н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	€N/A
H.1	General	イをか	N/A
H.2	Method A	K 2	N/A
Н.3 🔶	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)		_
H.3.1.2	Voltage (V)		
H.3.1.3	Cadence; time (s) and voltage (V):		—
H.3.1.4	Single fault current (mA):		
H.3.2	Tripping device and monitoring voltage	4	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	A A A	N/A
H.3.2.3	Monitoring voltage (V)		_

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

К	SAFETY INTERLOCKS	N/A
K.1	General requirements	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

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IEC/EN 62368-1			X
Clause	Requirement + Test	Result - Remark	Verdict
K.7.4	Electric strength test		N/A

L	DISCONNECT DEVICES		N/A
L.1	General requirements	The equipment is a building-in type, evaluation is to be made during the final system approval for the disconnect device provided in that system.	N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A

М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR 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):	Approved battery used	Р
M.3	Protection circuits		Р
M.3.1	Requirements		Р
M.3.2	Tests		Р
	- Overcharging of a rechargeable battery		Р
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		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		Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Charging operating limits		Р
M.4.2.2a)	Charging voltage, current and temperature:		_

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	IEC/EN 62368-	1 🖉 🤿	
Clause	Requirement + Test	Result - Remark	Verdict
M.4.2.2 b)	Single faults in charging circuitry		_
M.4.3	Fire Enclosure	Battery output: PS2, V-0 internal plastic 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	Р
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
M.6.2	Leakage current (mA)		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m ³ /s):		—
M.8.2.3	Correction factors:		_
M.8.2.4	Calculation of distance <i>d</i> (mm):		—
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A

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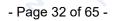
IEC/EN 62368-1

Clause	Requirement + Test	Result - Remark	Verdict	
M.9.2	Tray for preventing electrolyte spillage		N/A	
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing):	Provided the instructions includebattery charging, storage and transportation, and disposal and recycling.	Р	

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

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

Ρ	SAFEGUARDS AGAINST ENTRY OF FOREIGN OE INTERNAL LIQUIDS	BJECTS AND SPILLAGE OF	Ρ
P.1	General requirements N	lo openings to the internal circuits	Р
P.2.2	Safeguards against entry of foreign object N	lo 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
	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	lo 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		lo metallized coatings or adhesive ecuring 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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Clause Requirement + Test Result - Remark Verdict

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

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		IEC/EN 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
	Test flame according to IEC 606 conditions as set out	95-11-5 with	N/A
	Test specimen does not show a	ny additional hole	N/A
S.3	Flammability test for the bottom enclosure	of a fire	N/A
	Samples, material		
	Wall thickness (mm)	:	
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of ma	aterials	N/A
S.5	Flammability test for fire enclosu barrier materials of equipment w state power does not exceed 4 0	here the steady	N/A
	Samples, material	:	
	Wall thickness (mm)		
	Conditioning (test condition), (°C	>):	
	Test flame according to IEC 606 conditions as set out	95-11-20 with	N/A
	After every test specimen was r completely	not consumed	N/A
	After fifth flame application, flan within 1 min	ne extinguished	N/A

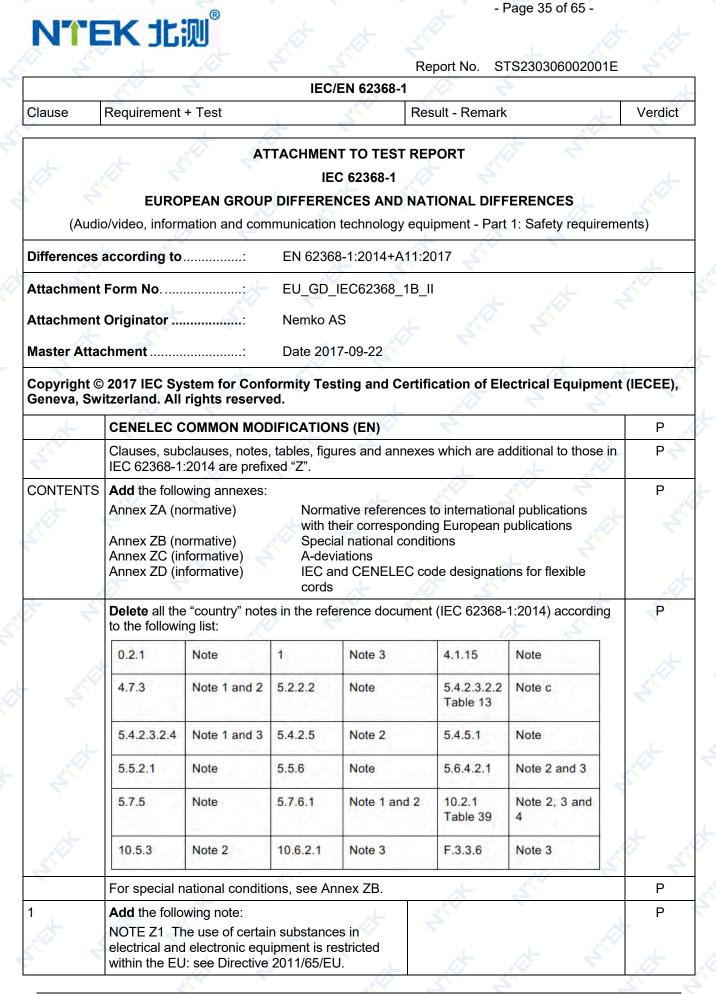
4			
Т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements		Р
T.2	Steady force test, 10 N		N/A
Т.3	Steady force test, 30 N		N/A
Т.4	Steady force test, 100 N		Р
T.5	Steady force test, 250 N	(See appended table T.5)	N/A
Т.6	Enclosure impact test		N/A
	Fall test	(See appended table T.6)	N/A
	Swing test		N/A
Т.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)	Not applicable.	N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J):		—

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IEC/EN 62368-1				
Requirement + Test	Result - Remark	Verdict		
Height (m):		_		
Glass fragmentation test:	No glass.	N/A		
Test for telescoping or rod antennas		N/A		
Torque value (Nm):		—		
	Requirement + Test Height (m) Glass fragmentation test Test for telescoping or rod antennas	Requirement + Test Result - Remark Height (m) Glass fragmentation test Glass fragmentation test No glass. Test for telescoping or rod antennas		

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



Shenzhen NTEK Testing Technology Co., Ltd.

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IEC/EN 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict		
4.Z1	Add the following new subcla	ause after 4.9:	N/A		
	To protect against excessive and earth faults in circuits co mains , protective devices sh as integral parts of the equip the building installation, subje b) and c):	nnected to an a.c. all be included either ment or as parts of	stat stat		
	 a) except as detailed in b) an devices necessary to comply requirements of B.3.1 and B. parts of the equipment; 	with the	at what		
	b) for components in series v the equipment such as the su coupler, r.f.i. filter and switch earth fault protection may be protective devices in the build	upply cord, appliance , short-circuit and provided by	at lat at		
	c) it is permitted for pluggab or permanently connected dedicated overcurrent and sh in the building installation, pro of protection, e.g. fuses or cin specified in the installation in	equipment, to rely on nort-circuit protection ovided that the means rcuit breakers, is fully			
	If reliance is placed on protect installation, the installation in state, except that for pluggal A the building installation shat providing protection in accord of the wall socket outlet.	structions shall so ble equipment type all be regarded as	ANTER AS		
5.4.2.3.2.4	Add the following to the end	of this subclause:	N/A		
	The requirement for intercon circuit is in addition given in				
10.2.1	Add the following to ^{c)} and ^{d)} i For additional requirements,		N/A		

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<u></u>		IEC/EN 62368-		
Clause	Requirement + Test		Result - Remark	Verdict
10.5.1	Add the following after the f	irst paragraph:		N/A
	For RS 1 compliance is che under the following condition		At ANY	· A
	In addition to the normal ope controls adjustable from the any object such as a tool or internal adjustments or press locked in a reliable manner, give maximum radiation who intelligible picture for 1 h, at measurement is made.	outside by hand, by a coin, and those ets which are not are adjusted so as to ilst maintaining an the end of which the	et fret fr	et serer
	NOTE Z1 Soldered joints a examples of adequate locking			
	The dose-rate is determined radiation monitor with an eff at any point 10 cm from the apparatus.	by means of a fective area of 10 cm²,	the stat	4
	Moreover, the measurement fault conditions causing an involtage, provided an intelligit maintained for 1 h, at the ent measurement is made.	ncrease of the hig <mark>h-</mark> ble picture is		ATTEN A
	For RS1, the dose-rate shal taking account of the backg	•	4 4	A 4
	NOTE Z2 These values ap 96/29/Euratom of 13 May 19		4	<u> </u>
10.6.1	Add the following paragraph subclause:	n to the end of the	AT AN	N/A
	EN 71-1:2011, 4.20 and the and measurement distances			
10.Z1	Add the following new subc	lause after 10.6.5.	5	N/A
	10.Z1 Non-ionizing radiation frequencies in the range 0			t sta
	The amount of non-ionizing by European Council Recon 1999/519/EC of 12 July 199 exposure of the general pub fields (0 Hz to 300 GHz).	nmendation 9 on the limitation of	t zint zi	
	For intentional radiators, ICI be taken into account for Lir Time-Varying Electric, Magr Electromagnetic Fields (up t held and body-mounted dev to EN 50360 and EN 50566	niting Exposure to netic, and o 300 GHz). For hand- rices, attention is drawn		Arriet &
G.7.1	Add the following note:	~	A 2	N/A
	NOTE Z1 The harmonized corresponding to the IEC co Annex ZD.		4 ^{rv}	1

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			IEC/EN 62368		
Clause	Requirement + Tes	st	Str.	Result - Remark	Verdict
Bibliography	Add the following	standards:		× ×	Р
	Add the following	notes for the st	andards indicate	ed:	
	IEC 60130-9	NOTE Harm	onized as EN 60	130-9.	×
	IEC 60269-2	NOTE Harm	onized as HD 60	269-2.	
	IEC 60309-1	NOTE Harm	onized as EN 60	309-1.	<
	IEC 60364	NOTE some	parts harmonize	ed in HD 384/HD 60364 series.	
	IEC 60601-2-4	NOTE Harmo	onized as EN 60	601-2-4.	4
	IEC 60664-5	NOTE Harmo	onized as EN 600	664-5.	
	IEC 61032:1997	NOTE Harmo	nized as EN 610	032:1998 (not modified).	
	IEC 61508-1	NOTE Harmo	nized as EN 61	508-1.	
	IEC 61558-2-1	NOTE Harmo	onized as EN 61	558-2-1.	
	IEC 61558-2-4	NOTE Harmo	onized as EN 61	558-2-4.	
	IEC 61558-2-6	NOTE Harmo	onized as EN 61	558-2-6.	
	IEC 61643-1	NOTE Harmo	nized as EN 610	643-1.	<u> </u>
	IEC 61643-21	NOTE Harmo	nized as EN 610	643-21.	
	IEC 61643-311	NOTE Harmo	onized as EN 610	643-311.	
	IEC 61643-321	NOTE Harmo	nized as EN 610	643-321.	X 7
	IEC 61643-331	NOTE Harmo	onized as EN 610	643-331. 📈 💦 🔨	
ZB	ANNEX ZB, SPEC	CIAL NATION	AL CONDITION	IS (EN)	Р
4.1.15	Denmark, Finland	l, Norway and	Sweden		N/A
	To the end of the s	subclause the f	ollowing is adde	d:	
	Class I pluggable connection to othe if safety relies on o if surge suppresso network terminals marking stating that connected to an ea	r equipment or connection to re rs are connect and accessibl at the equipme	a network shall, eliable earthing o ed between the e parts, have a nt shall be		at safe
	The marking text in be as follows:	n the applicable	e countries shall	e ⁻ d	Star
	In Denmark : "Apparatetsstikpro jordsom giver forbi			at which which	
	In Finland : "Laite o liitettäväsuojakosk "		ettuunpistorasiaa	n	45 COL
	In Norway : "Appar	atetmåtilkople	sjordetstikkontak	tť"	
	In Sweden : "Appa jordatuttag"	ratenskallanslu	utas till		et .
1.7.3	United Kingdom				N/A
	To the end of the s	subclause the f	ollowing is adde	d:	
	The torque test is p complying with BS assessed to the re see Annex G.4.2 c	performed usin 1363, and the levant clauses	g a socket-outle plug part shall b	t pe	



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Clause	Requirement + Test	A.V.	Result - Remark	Verdict
		<u>↓</u>	Result - Remark	Veruiçi
5.2.2.2	Denmark		At 2	N/A
	After the 2nd paragraph add	-	At S	
	A warning (marking safegua current is required if the tou			
	the limits of 3,5 mA a.c. or 10			
5.4.11.1 and			$+$ $\langle \xi \rangle$	N/A
Annex G	To the end of the subclause			
	For separation of the telecom from earth the following is ap			S.C.
	If this insulation is solid, inclu			
	forming part of a component, consist of either	, it shall at least		
	 two layers of thin sheet mat 	terial, each of which	· [
	shall pass the electric strengt			
	• one layer having a distance			
	at least 0,4 mm, which shall p strength test below.	pass the electric		
	If this insulation forms part of	a semiconductor	*	
	component (e.g. an optocoup	oler), there is no		
	distance through insulation re insulation consisting of an ins			
	completely filling the casing,		2 2	
	and creepage distances do	not exist, if the	A.	<u> </u>
	component passes the electr accordance with the complian		کے ۔ ا	
	in addition	The clause below and	the state of the s	
	passes the tests and inspec	ction criteria of 5.4.8	AT ST	
	with an electric strength test			- <u></u>
	1,6 (the electric strength test performed using 1,5 kV), and			
	 is subject to routine testing 			
	during manufacturing, using		L	
	1,5kV.		2 A	~
	It is permitted to bridge this in capacitor complying with EN		At S	
	subclass Y2.	00304-14.2003,		
	A capacitor classified Y3 acc			
	14:2005, may bridge this insu		A Contraction of the second se	
	following conditions:	and a finding of here		
	 the insulation requirements having a capacitor classified 			
	60384-14, which in addition t	o the Y3 testing, is	4	×
	tested with an impulse test of	f 2,5 kV defined in		
	5.4.11;			
	 the additional testing shall the test specimens as described 			
	the impulse test of 2,5 kV is t		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	before the endurance test in	EN 60384-14, in the		
	sequence of tests as describ	ed in EN 60384-14.		



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	IEC/EN 62368-1						
Clause	Requirement + Test	ST ST	Result - Remark	Verdict			
5.5.2.1	Norway After the 3rd paragraph the f Due to the IT power system required to be rated for the a voltage (230 V).	used, capacitors are	tet stat	N/A			
5.5.6	Finland, Norway and Swed To the end of the subclause Resistors used as basic saf basic insulation in class I equipmenttype A shall com the test of G.10.2.	the following is added: reguard or bridging bluggable	at such as	N/A			
5.6.1	Denmark Add to the end of the subclate Due to many existing installar socket-outlets can be protect higher rating than the rating the protection for pluggable be an integral part of the equi- <i>Justification:</i> In Denmark an existing 13 A protected by a 20 A fuse.	ations where the ted with fuses with of the socket-outlets equipment type A shall uipment.	whet whet	N/A			
5.6.4.2.1	Ireland and United Kingdo After the indent for pluggab the following is added: – theprotective current rati A, this being the largest ratin mains plug.	le equipment type A, ing is taken to be 13	stet stet	N/AS			
5.6.5.1	To the second paragraph the The range of conductor size be accepted by terminals for rated current over 10 A and A is: 1,25 mm ² to 1,5 mm ² in cross	s of flexible cords to equipment with a up to and including 13	r Arter a	N/A			
5.7.5	Denmark To the end of the subclause The installation instruction sl equipment if the protective exceeds the limits of 3,5 mA	hall be affixed to the conductor current		N/A			

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Clause	Requirement + Test		Result - Remark	Verdict
		<u>+</u>		
5.7.6.1	Norway and Sweden			N/A
	To the end of the subclause	•	X X	4
	The screen of the television of			
	normally not earthed at the e and there is normally no equ			
	system within the building. The			
	earthing of the building instal	lation needs to be	× % <	
	isolated from the screen of a	cable distribution		<u></u>
	system.			
	It is however accepted to pro external to the equipment by			
	interconnection cable with ga			
	may be provided by a retailer			
	The user manual shall then h	nave the following or		
	similar information in Norweg			
	language respectively, deper country the equipment is inte			
	"Apparatus connected to the the building installation throu			
	connection or through other a			× 3
	connection to protective earth			A.C.
	television distribution system			
	may in some circumstances Connection to a television dis		5 . 6	که الم
	therefore has to be provided			
	providing electrical isolation b	pelow a certain		<i>4</i> .
	frequency range (galvanic iso	plator, see EN 60728-		
	NOTE In Norway, due to reg installations, and in Sweden,			1
	shall provide electrical insula			
	The insulation shall withstand			
	of 1,5 kV r.m.s., 50 Hz or 60	Hz, for 1 min.	~	
	Translation to Norwegian (the also be accepted in Norway)			
	"Apparatersomerkoplettilbesl			
	nettpluggog/eller via annetjor		F - 2	
	ogertilkoplet et koaksialbaser	rtkabel-TV nett, 🛛 💉	· · · · · · · · · · · · · · · · · · ·	
	kanforårsakebrannfare. For å			
	unngådetteskaldetvedtilkopli TV nettinstalleresengalvanisl			
	mellomapparatetogkabel-TV			
	Translation to Swedish:		4	1 to
	"Apparatersomärkopplad till s	skyddsjord via 🌕	AL I	<u> </u>
	jordatvägguttagoch/eller via			
	annanutrustningochsamtidigt			
	TV nätkanivissa fall medfőra Főrattundvikadettaskall vid a			
	till kabel-TV nätgalvanisk isol			
	finnasmellanapparatenochka			



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Clause	Requirement + Test		Result - Remark	Verdict
		+		
5.7.6.2	Denmark To the end of the subclause The warning (marking safegu current is required if the touc protective current exceed the	uard) for high touch th current or the	ret whet w	- N/A
B.3.1 and B.4	Ireland and United Kingdo The following is applicable: To protect against excessive circuits in the primary circuit equipment, tests according B.4 shall be conducted using circuit breaker complying wit B, rated 32A. If the equipment tests, suitable protective dev as an integral part of the dire equipment, until the require B.3.1 and B.4 are met	e currents and short- of direct plug-in to Annexes B.3.1 and g an external miniature h EN 60898-1, Type nt does not pass these rices shall be included ect plug-in	et wret with	N/A
G.4.2	Denmark	A - 5		N/A
	To the end of the subclause Supply cords of single phase rated current not exceeding with a plug according to DS CLASS I EQUIPMENT provi outlets with earth contacts of be used in locations where p indirect contact is required a rules shall be provided with a with standard sheet DK 2-1a	e appliances having a 13 A shall be provided 60884-2-D1:2011. ded with socket- r which are intended to protection against ccording to the wiring a plug in accordance or DK 2-5a.	with with a	
	If a single-phase equipment CURRENT exceeding 13 A of equipment is provided with a plug, this plug shall be in acc standard sheets DK 6-1a in 1 60309-2. Mains socket outlets intende	or if a poly-phase a supply cord with a cordance with the DS 60884-2-D1 or EN	- whet w	- Arith
	to Class II apparatus with a r shall be in accordance DS 6 standard sheet DKA 1-4a.	rated current of 2,5 A		AT.
	Other current rating socket of compliance with Standard SI 1-1c.		the star	
	Mains socket-outlets with ea compliance with DS 60884-2 Sheet DK 1-3a, DK 1-1c, DK 1-7a <i>Justification:</i>	2-D1:2011 Standard	A AND	A at a

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		IEC/EN 62368-1		
Clause	Requirement + Test	Ster.	Result - Remark	Verdict
G.4.2	United Kingdom To the end of the subclause th The plug part of direct plug-in assessed to BS 1363: Part 1, 12.9, 12.11, 12.12, 12.13, 12. except that the test of 12.17 is less than 125 °C. Where the r replaced by an Insulated Shut (ISOD), the requirements of c	equipment shall be 12.1, 12.2, 12.3, 16, and 12.17, s performed at not netal earth pin is tter Opening Device	let such as	N/A
G.7.1	also apply. United Kingdom To the first paragraph the follo Equipment which is fitted with cord and is designed to be co socket conforming to BS 1363 flexible cable or cord shall be plug' in accordance with the F (Safety) Regulations 1994, St 1994 No. 1768, unless exemp regulations. NOTE "Standard plug" is defin and essentially means an app conforming to BS 1363 or an plug.	a flexible cable or nnected to a mains 3 by means of that fitted with a 'standard Plugs and Sockets etc atutory Instrument oted by those ned in SI 1768:1994 proved plug		N/A
G.7.1	Ireland To the first paragraph the follo Apparatus which is fitted with cord shall be provided with a with Statutory Instrument 525 and Conversion Adapters for Regulations: 1997. S.I. 525 pr recognition of a standard of at which is equivalent to the rele	a flexible cable or plug in accordance : 1997, "13 A Plugs Domestic Use rovides for the nother Member State	ster ster	N/A
G.7.2	Ireland and United Kingdom To the first paragraph the follo A power supply cord with a co is allowed for equipment whic and up to and including 13 A.	n owing is added: onductor of 1,25 mm ²	t stat s	N/A

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		IEC/EN 62368-	1 🖉 🗧	
Clause	Requirement + Test	5	Result - Remark	Verdict
ZC	ANNEX ZC, NATIONAL DEVI	ATIONS (EN)	×	N/A
10.5.2	Germany The following requirement appl	lies:	the the	N/A
	For the operation of any cathor for the display of visual images acceleration voltage exceeding authorization is required, or ap approval (Bauartzulassung) an	operating at an 40 kV, plication of type	tet stat	ATTEN AT
	Justification: German ministerial decree aga radiation (Röntgenverordnung) 2002-07-01, implementing the 96/29/EURATOM.	inst ionizing , in force since	t stat &	
	NOTE Contact address: Physikalisch-TechnischeBunde Bundesallee 100, D-38116 Braunschweig,	esanstalt,		at white white
REF	Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	At and	4	L Š



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			IEC/EN 623	568-1	7		
Clause Require		ment + Test	Result - Rema		ark	×	Verdict
• 		t A					
4.1.2	TABLE:	List of critical comp		4	<u> </u>		P
Object / par	t No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) conform	
Charger		Guangdong Quanzhi Technology Co., Ltd.		Input:100-240V~ 50/60Hz 0.8A; Output: (PD)DC5.0V/3.0A, 9.0V/3.0A, 12.0V/2.5A, 15.0V/2.0A, 20.0V/1.5A; (PPS) DC3.0- 11.0V/3.0A	EN IEC 62368- 1:2020+A11:2 020	CE Test report No.: HX2109020960 5R1	
Rechargeal Battery	ble Li-ion	Shenzhen Hua TianTong Technology Co., Ltd.	Li676590HT	3.85Vd.c, 15080mAh, 58.058Wh	IEC 62133-2: 2017		port no.: 222161S
Flash LED	AN IEL	ANHUI RETOP ELECTRONICS CO. LTD.	NLW1016AV1*	DC3V, 150mA, exempt group	IEC 62471:2006 EN 62471:2008	SGS Re No.:SHI 019757	ES22010
Laser (for re flash LED)	eplace	SHENZHEN GAOYILI ELECTRONIC TECHNOLOGYCO .LTD.	GYL- 060170BA-1	DC3.0V, class 1 laser	EN 60825-1	Report I ATT202 031S	no.: 1010400
LCD screer	ı	SHENZHEN TXD TECHNOLOGY CO.,LTD	TXDY670EBW PXG-13	6.7"	EN 62368-1	Tested withapp	liance
Speaker		Dragonstate Electronic Corporation	HDK- 261306ZA- BOX2	6Ω, 2.5W max.	EN 62368-1	Tested appliance	
PCB		RED BOARD LTD	H103D	V-0, 130°C	UL 94	UL E13	3472
(Alternative)	Interchangeable	Interchangeable	V-0, 130°C	UL 94	UL	<u>×</u>
Plastic enclosure		SABIC INNOVATIVE PLASITCS B V	EXRL0246 (GG) DMX9455 (GG)	80°C, V-0, 1.5mm thickness Min.	UL 94	UL E45	329
(Alternative		Interchangeable	Interchangeable	V-0, 80°C	UL 94	UL	- 4
Vibration m	otor	CHONGQING LINGLONG ELECTRONIC CO.,LTD.	10G30F- 070312089- 8344B	Rated Voltage: DC 3.0V, 85mA max. Rated Speed 13000±3000rpm	EN 62368-1	Tested appliance	

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NTEK 北测[®]

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		IEC/EN 62	368-1		
Clause	Requirement + Test		Result - Remark	×	Verdict
Supplem	entary information:		A Contraction		

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

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

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Report No. STS230306002001E IEC/EN 62368-1 Verdict Clause Requirement + Test **Result - Remark** 4.8.4, 4.8.5 TABLE: Lithium coin/button cell batteries mechanical tests N/A (The following mechanical tests are conducted in the sequence noted.) 4.8.4.2 TABLE: Stress relief test Part Material Oven Temperature (°C) Comments 4.8.4.3 **TABLE: Battery replacement test** Battery part no.: Battery Installation/withdrawal Battery Installation/Removal Cycle Comments 1 2 3 4 5 6 8 9 10 **TABLE: Drop test** 4.8.4.4 Observations Impact Area **Drop Distance** Drop No. 1 2 3 4.8.4.5 **TABLE: Impact** Impacts per surface Surface tested Impact energy (Nm) Comments **TABLE: Crush test** 4.8.4.6 Test position Surface tested Crushing Force (N) Duration force applied (s) Supplementary information:



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		IEC/EN	62368-1			
Clause	Requiremen	it + Test	Re	sult - Remark	×	Verdict
4.8.5 TABLE: Lithium coin/button cell batteries mechanical test result						N/A
Test position		Surface tested		Force (N)		uration force applied (s)
			4		4	5
		* * ~ ~	1	×	5	

Supplementary information:

	<u> </u>			4	*	1	
5.2	TABLE:	Classification	of electrical energy	gy sources	X		Р
5.2.2.2	 Steady State 	e Voltage and Cu	irrent conditions				
	O	Location (e.g.			Parameters		
No.	Supply Voltage designation)		Test conditions	U (Vrms or Vpl	ا (Apk or Ar	ms) Hz	ES Class
	- 2		Normal		- ·		
1	5Vd.c	All internal circuits	Abnormal				ES1 (declared
		Circuits	Single fault –		.		
<u>_</u>		Ċ.	Normal	x - x		-	
2	Full charged battery	Battery pack output	Abnormal	-		_	ES1 (declared)
	Dallery	ouipui	Single fault –			<u> </u>	
5.2.2.3	- Capacitance	Limits					
		Location (e.g.			Parameters		
No.	Supply Voltage	circuit designation)	Test conditions	Capacitance	e, nF	Upk (V)	ES Class
		5.	Normal	<u></u>			14
		/	Abnormal	- ²		-	
			Single fault –	<u></u>	<u>s</u>		
5.2.2.4	- Single Pulse	s	1				
	Supply	Location (e.g.			Parameters		50.01
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class
6	+ 5	4	Normal	<u>_</u>	~ - ~		dt .
S.			Abnormal			* - \$	
			Single fault –		¥ - X		

Ambient

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Report No. STS230306002001E IEC/EN 62368-1 Clause Requirement + Test Result - Remark Verdict 5.2.2.5 - Repetitive Pulses Location (e.g. Parameters Supply No. circuit Test conditions ES Class Voltage Off time (ms) Upk (V) lpk (mA) designation) Normal __ Abnormal ____ -----Single fault - \leq Test Conditions: Normal -Abnormal -Supplementary information: SC=Short Circuit, OC=Short Circuit Р 5.4.1.4, **TABLE:** Temperature measurements 6.3.2, 9.0, B.2.6 Supply voltage (V): See below Ambient T_{min}(°C): ___ ---___ Ambient T_{max}(°C): ___ ___ ___ ---___ Tma (°C) ___ ---T (°C) Allowed Maximum measured temperature T of part/at: T_{max} (°C) DC5Vcharging Full battery discharging ---Torch light laser 130 PCB near U1901&U0701 60.9 62.8 60.7 ___ 130 PCB near U1701 61.6 58.7 --58.5 Battery body 51.4 Ref. 53.9 52.0 ---Enclosure inside near battery Ref. 53.9 52.0 51.6 ---40.0 Ambient 40.0 40.0 ---Touch Temperatures (Clause 9) 48 Enclosure outside near battery 45.4 36.2 36.1 ___ Enclosure outside near DC inlet 40.6 33.0 32.8 48 ---Button 37.0 34.0 33.4 48 ---38.1 37.8 48 Screen 41.0 ---45.4 ___ 77 Adapter surface ------

25.0

Shenzhen NTEK Testing Technology Co., Ltd.

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25.0

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Report No. STS230306002001E IEC/EN 62368-1 Requirement + Test Result - Remark Verdict Clause Supplementary information: 1, External enclosure surface of the equipment (contact time >1 mins). t1 (°C) Allowed Insulation t₂ (°C) T (°C) R₁ (Ω) R₂ (Ω) Temperature T of winding: class T_{max} (°C) -----------------___ ---___ ------------------Supplementary information: Note 1: Tma should be considered as directed by appliable requirement

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

5.4.1.10.2	2 TABLE: Vicat softening temperature of thermoplastics							
Penetration (mm)								
Object/ Part	No./Material	Manufacturer/t rademark	T softening (°C	.)				
-5			- *	~ ~				
supplementa	ary information:							

5.4.1.10.3	3 TABLE: Ball pressure test of thermoplastics							
Allowed imp	pression diameter	(mm):	≤ 2 mm	~	—			
Object/Part	No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	meter (mm)			
4 &	<u> </u>		<u> </u>	¥-				
Supplement	ary information:		t -	STA				

N/A

5.4.2.2, 5.4.2.4 and 5.4.3	FABLE: Minimum Clearances/Creepage distance						N/A	
```	cl) and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)
- 7			×			-	Ø S	-
Supplementa	ary information:	* *				7		

5.4.2.3	TABLE: Minimum Cleara	voltage	N/A				
	Overvoltage Category (OV)						
	Pollution Degree						
Clearance	distanced between:	Required withstand voltage	Required cl (mm)	Mea	asured cl (mm)		
				×			

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 Supplementary information:
 N/A
 Verdict
 Verdict

5.4.2.4 TABLI	E: Clearances based	N/A		
Test voltage applied	between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No
		<u>A</u>	<u> - `</u>	-
		<u> </u>	- *	<u> </u>
Supplementary info	rmation:		At sil	4

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Dis	tance through insulation	n measureme	ents		N/A
Distance thr insulation di		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
	X			<u>A</u>	Q - S	
Supplementa	ary informatior	1:	STAT	4	4	at the

5.4.9	TABLE: Electric st	rength tests			N/A
Test voltage	e applied between:		Voltage shape (AC, DC)	Test voltage (V)	reakdown Yes / No
				<u> </u>	
Supplement	ary information:				

5.5.2.2 **TABLE: Stored discharge on capacitors** N/A Measured Voltage **ES** Classification Supply Voltage (V), Hz Test Operating Switch Condition Location position (after 2 seconds) (N, S) On or off ____ Supplementary information:

X-capacitors installed for testing are:

bleeding resistor rating:

ICX: see above

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

#### **NTEK 北测**°

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IEC/EN 62368-1									
Clause	Requirement + Test Result - Remark		Verdict						
5.6.6.2 TABLE: Resistance of protective conductors and terminations									
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)				
		- Z 2		-	\$ <i>\$</i>				
Suppleme	ntary information:	6	*	S 2					

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive par	t At At	N/A	
Supply vo	Itage			
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)	
	t stat s	1		
		2*		
		3		
		4		
		5		
		6		
-		8		

Supplementary Information:

N/A

Notes:

[1] Supply voltage is the anticipated maximum Touch Voltage

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

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

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

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

6.2.2	TABLE: Electrical p	classification	K P K		
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification
X		Power (W) :	A - 2	16.10	¥
A ^{&amp;}	Battery pack	VA (V) :	<u>-</u>	2.92	PS2
		IA (A):	<u> </u>	5.50	



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<u>`                                    </u>		7 7		Report No.	STS23030600	2001E
		IEC/I	EN 62368-1			
Clause	Requirement + Test		Result - Remark			Verdict
		Power (W) :			65.88	
B&	Battery cell	VA (V):			2.21	PS2
		IA (A):	IA (A):		29.87	
	×	Power (W):	6.79		X	C
C&	Type C output	VA (V):	4.53		<u> </u>	PS1
- <		IA (A):	1.50			1 A
(*) Measure	ntary Information: SC=S ement taken only when measurement for worst-	limits at 3 seconds		limits		
			~		Ļ	
6.2.3.1	TABLE: Determinat	ion of Potential Ig	nition Sour	ces (Arcing	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
		- 4		s

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 TABLE: Determination of Potential Ignition Sources (Resistive PIS)									
Circuit Location (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No				
Battery output		x x	<i>c</i>	- 4	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, or (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		N/A
Description		Values	Energy Source Classification
Lamp type.			—

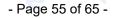
Report No. STS230306002001E IEC/EN 62368-1 Verdict Clause Requirement + Test **Result - Remark** Manufacturer ..... Cat no. Pressure (cold) (MPa)..... MS Pressure (operating) (MPa)..... MS Operating time (minutes) Explosion method ..... Max particle length escaping enclosure (mm) .: MS MS Max particle length beyond 1 m (mm)..... Overall result ..... Supplementary information:

B.2.5	TABLE: Inp	TABLE: Input test						Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/statu	ls
5.0Vdc	2.857	3	14.285	and the	4	-211	Empty battery charge. Battery 2.502A	
5.0Vdc	2.731	3	13.655		-	J. Cot	Empty battery EUT running. I current: -1.734	Battery

Supplementary information:

The measured input power did not exceed the marked input rating by more than 10 percent when the apparatus was operated to produce the maximum normal input power.

	~ ~				Y-				
B.3	TABLE: Ab	normal op	erating cond	dition tests	4		4		P
Ambient temp	perature (°C)				:	See	below	4	
Power source for EUT: Manufacturer, model/type, output rating .: -									
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse currer (A)	nt,	T- couple	Temp. (°C)	Observatio n
Speaker	S-C	4.4	10mins						Speaker shut down and other function as normal operation NO damaged on hazards.



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IEC/EN	62368-	1
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		IEC/EN 62368-1	A Contraction of the second se
Clause	Requirement + Test	Result - Remark	Verdict
Suppleme	entary information:		

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

No igntion during and after all tests.

B.4	TABLE: Fault	condition f	ests						Р		
Ambient temper	ature (°C)			0		23.0-25.	0				
Power source for	or EUT: Manufac	cturer, mode	el/type, c	output ra	ting .:	See cov	er page f	or details			
Component No.	Fault Condition	Supply voltage, (V)	Test time	Fuse no.	Fuse current, (A)	T- couple	Temp. (°C)	Obser	vation		
R1725	S-C	5	10					Normal wor recoverable damage, no	, no		
R1730	S-C	5	10					recoverable	Normal working, recoverable, no damage, no hazards.		
C1707	S-C	5	10					Unit Shut down rapidly and recoverable, no damage no hazard.			
C1701	S-C	5	10					Unit Shut do and recover damage no	able, no		
R3407	S-C	4.4	10					Normal wor recoverable damage, no	, no		
R3406	S-C	4.4	10					Normal wor recoverable damage, no	, no		
C3404	S-C	4.4	10					Unit Shut do and recover damage no	able, no		
C3403	S-C	4.4	10					Unit Shut do and recover damage no	able, no		

Supplementary information:

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

2. No ignition during and after all tests;

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			IE	C/EN 6236	8-1 📿					
Clause	Requirement	+ Test		Str	Result	- Remark		X	Verdict	
Annex M	TABLE: Batt	eries					- 4		Р	
The tests o	f Annex M are a	applicable o	only when ap	propriate ba	attery data	is not avail	able			
Is it possibl	e to install the l	pattery in a	reverse pola	rity position	?				4	
	Non-re	chargeable	e batteries		R	echargeabl	e batteries			
	Disch	Discharging Un- intentional			ging	Discha	arging		eversed	
	Meas. current	Manuf. Specs.	charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	
Max. currei during norn condition		-4	-	2502mA	7000mA	3684mA	8000mA			
Max. currer during fault condition		A.C.	-4-	3471mA (U1701 Pin1-14 sc)	7000mA	4471mA (U3403 Pin5-4 sc)	8000mA	A.	4	
Test results	): 	<u>s</u>	4			<u>ملہ</u>	*		Verdict	
- Chemical	leaks	2		- <b>L</b>		<u> </u>	NO		Р	
- Explosion	of the battery	*	4	1.C			NO		P	
- Emission	of flame or exp	ulsion of m	olten metal	¢.			NO	5	Р	
- Electric st	rength tests of	equipment	after comple	tion of tests		X				

かん			* 3		<u> </u>					
Annex M.4 TABLE: Additional safeguards for equipment containing secondary lithium batteries										
Battery/Cell No.		Test	conditions		Measurements	3	Observation			
				U	I (A)	Temp (°C)				
		Normal		4.4	2.502	53.9	No damaged, no hazard.			
2	2		Abnormal (after drop test)		2.503	54.2	No damaged, no hazard.			
3	3		Single fault –SC/OC		4.4 3.471 55.3		No damaged, no hazard.			
Supplementa	ary Informati	on: SC = s	hort circuit.	7			<i>4</i> , <i>7</i>			
Battery identification Charging at T _{lowest} (°C)		Tlowest	Observation		Charging at T _{highest} (°C)	Obs	servation			

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Report No.

IEC/EN 62368-1 Requirement + Test Verdict Clause **Result - Remark** Charging at Observation Charging at Observation Battery Tlowest Thighest identification (°C) (°C) Li-ion battery 0 When the temperature of 60 When the temperature of the the battery body reaches battery body reaches 0℃,charge current: 0A 58℃,charge current: 0A

Supplementary Information: The battery surface not exceeds the highest and lowest specified charging temperature under normal operating conditions, abnormal operating conditions or single fault conditions.

Annex Q.1	TABLE: Circuits inte	ended for interc	onnection with	h building wiri	ing (LPS)	Р	
Note: Meas	sured UOC (V) with all lo	ad circuits discor	nnected:		4		
Output	Components	U _{oc} (V)	lse	c(A)	S (VA)		
Circuit			Meas.	Limit	Meas.	Limit	
Туре-С	Normal	5.102	1.5	8	6.79	100	
output	Single fault	0	0	8	0	_ 100 🔶	
Supplemen N/A	tary Information:	4		, et			

T.2, T.3, T.4, T.5	TABLE: \$	Steady force tes		2		4 Cr	Р
Part/Loo	cation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observ	vation
Top of enclo	sure	Plastic	<u> </u>	100	5	No dam no ha	-
Bottom of enclosure		Plastic		100	5	No damaged, no hazard	
Side of enclosure Plastic					No damaged, no hazard		
Supplementa	ary informa	ation:			~		<u>ــــــــــــــــــــــــــــــــــــ</u>

Т.6, Т.9	TABI	LE: Impact tests			×	5		N/A
Part/Location Material		Material	Thickness (mm)	Vertical distance (mm)		Observa	ation	
<u> </u>				4		×	Ś	5
			5		*	ST		
Supplementa	arv info	ormation:						•

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Report No. STS230306002001E IEC/EN 62368-1 Requirement + Test Result - Remark Verdict Clause T.7 **TABLE: Drop tests** Ρ Part/Location Thickness **Drop Height** Observation Material (mm) (mm) Top enclosure Plastic 1000 No damage, no hazard ---Side enclosure Plastic 1000 No damage, no hazard -bottom enclosure Plastic 1000 No damage, no hazard --Supplementary information:

Т.8 🔨 ТА	BLE: Stress relief t	est	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Р
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Enclosure	Plastic		70	7	No damaged, no hazards
Supplementary i	nformation:	4		* 0	



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#### Attachment1 – Photo Documentation

Fig.1



Fig.2

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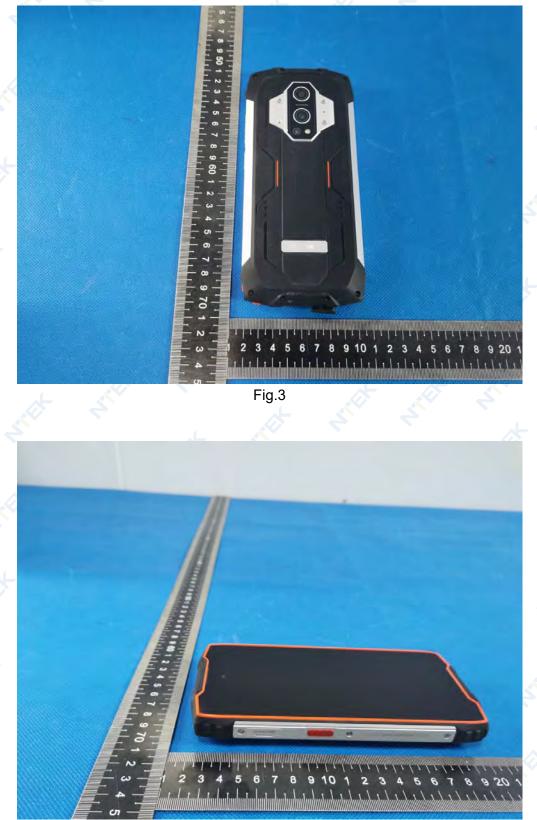


Fig.4

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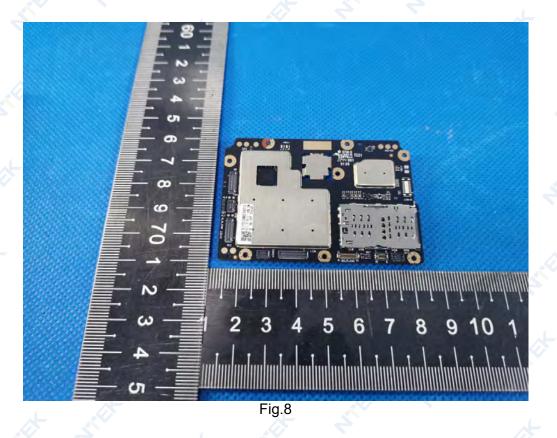
Fig.5



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Fig.7



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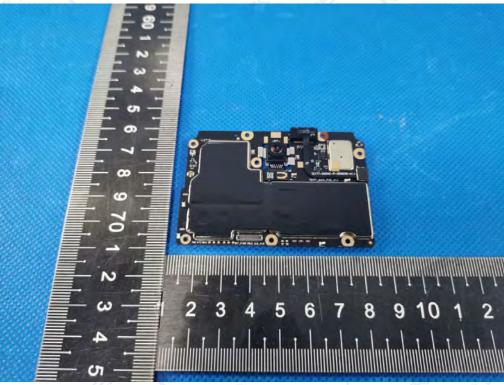


Fig.9



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Fig.11

#### Blackview

#### GaN Fast Charger Model: QA-0300CE03 Input: 100-240V~50/60Hz 0.8A Output: (PD)5.0V=3.0A or 9.0V=3.0A or 12.0V=2.5A or 15.0V=2.0A or 20.0V=1.5A (PPS)3.3V-11.0V=3.0A(33.0W MAX)



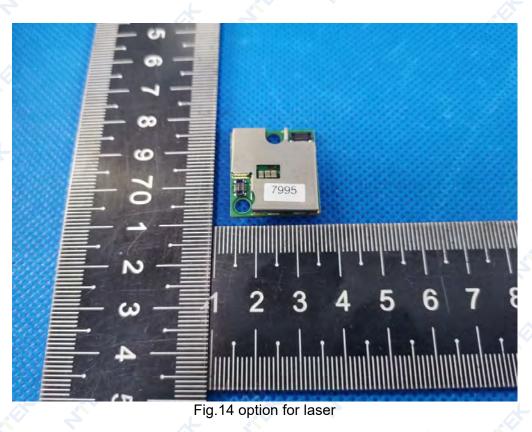
Guangdong Quanzhi Technology Co., Ltd. Made in China

Fig.12

Report No. STS230306002001E



Fig.13 option for laser



***END OF REPORT***