

TEST REPORT

Report No.: STS230317004001E

Product: Mobile Phone

Model No.: BV5300 Pro, S70 Pro

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,

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China

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TEST REPORT IEC/EN62368-1

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

Report Number::	STS230317004001E
Tested by (+ signature):	Helen Lin Jebulin Henson Dong Henson Dung
Approved by (+ signature):	Henson Dong Henson Dung
Date of issue:	2023-04-03
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:	A 31 31 4
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
Equipment and Components (IECEI This publication may be reproduced in whole or	m for Conformity Testing and Certification of Electrotechnical E), Geneva, Switzerland. All rights reserved. in part for non-commercial purposes as long as the IECEE is acknowledged as copyright no responsibility for and will not assume liability for damages resulting from the reader's its placement and context.
Test item	
Description	Mobile Phone
Trade Mark	· Blackview, OSCAL
Manufacturer	Shenzhen DOKE Electronic Co.,Ltd
Address:	801, Building 3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China
Model/Type reference	. BV5300 Pro, S70 Pro
Ratings	DC5.0V/2.0A or by battery 3.85V 6580mAh 25.333Wh)



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
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:	☐ restricted access location ☐ N/A
Pollution degree (PD):	□PD 1 ⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	40°C
IP protection class:	☐ IP
Power Systems:	□TN □TT□ITV L-L
Altitude during operation (m):	⊠2000 m or less □5000 m
Altitude of test laboratory (m):	□2000 m or less ⊠500 m
Mass of equipment (kg):	⊠Approx. 0.289kg
POSSIBLE TEST CASE VERDICTS:	W
- 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:	* 3
Date of receipt of test item	2023-03-21
Date (s) of performance of tests	2023-03-22 to 2023-03-31
GENERAL REMARKS:	₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩
"(See Enclosure #)" refers to additional informatio "(See appended table)" refers to a table appended t	
Throughout this report a \square comma / \boxtimes point is us	sed as the decimal separator.
When differences exist; they shall be identified in the	ne General product information section.
Name and address of factory (ies):	Same as manufacturer

GENERAL PRODUCT INFORMATION:

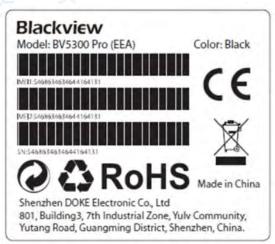
Product Description –

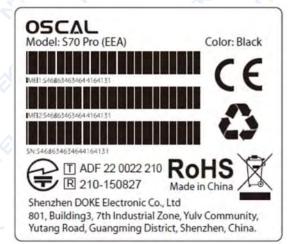
- 1. The product is Mobile Phone, which supplied by a built-in Li-ion battery and shall be charged by a suitable rated, and certified external DC power supply according to IEC/EN 62368-1 via a type C port.
- 2. All these models are similar excep the logo lens, Software brand and Battery label silk screen brand are different. All tests were made on model no. BV5300 Pro.

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.







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 corresponding energy source classification) Example: Battery pack (maximum 85 watts):

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 Glycol

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



Type of radiation				Corr	esponding	classifica	tion (RS)	大
LED			1	RS1	7		大	
Acoustic	4			RS2		太	3	
		E	NERGY S	OURCE DIA	GRAM			
Indicate which ener	gy sources	are include	d in the en	ergy source	diagram. Ir	nsert diagra	am below	
	4	10				4	.0	4
,		⊠ ES	⊠ PS	⊠ MS		RS		

OVERVIEW OF EMPLOYEDSAFEO	GUARDS				
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	substances			
Body Part	Energy Source	Safeguards			
(e.g., skilled)	(hazardous material)	Basic	Supplement ary	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	Supplement ary	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	Supplement ary	Reinforced	
Ordinary person, Skilled person	TS1: Accessible parts	N/A	N/A	N/A	
10.1	Radiation				
Body Part	Energy Source	Safeguards			
(e.g., Ordinary)	(Output from audio port)	Basic	Supplement ary	Reinforced	
Ordinary person,Skilled person	RS1: LED	N/A	N/A	N/A	
Ordinary person, Skilled person	RS2: Acoustic	Warning: "Listening at high volume for long periods may damage your hearing" will appear when the sound exceeds RS1	N/A	N/A	

Supplementary Information:

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



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Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		Р
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)	Р
4.1.3	Equipment design and construction	, A- K	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)	Р
4.4.4.3	Drop tests	(See Annex T.7)	Р
4.4.4.4	Impact tests		N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	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	P
4.5	Explosion	1	Р
4.6	Fixing of conductors	*	Р
4.6.1	Fix conductors not to defeat a safeguard		P
4.6.2	10 N force test applied to	2	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	F &	N/A
4.7.3	Torque (Nm)	A 3°	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
-	Means to reduce the possibility of children removing the battery		_
4.8.4	Battery Compartment Mechanical Tests		N/A
4.8.5	Battery Accessibility	A 4	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	Р



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Clause	Requirement + Test	Result - Remark	Verdict
5	ELECTRICALLY-CAUSED INJURY		Р
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	P (
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:	A	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		N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	7	N/A
5.3.2.2	Contact requirements	+ × ×	N/A
	a) Test with test probe from Annex V:	70 Ya S	N/A
	b) Electric strength test potential (V):	7	N/A
	c) Air gap (mm):		N/A
5.3.2.4	Terminals for connecting stripped wire	, <u>, , , , , , , , , , , , , , , , , , </u>	N/A
5.4	Insulation materials and requirements	A S	P
5.4.1.2	Properties of insulating material		Р
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)	P
5.4.1.5	Pollution degree:	0 × ×	_
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	y- 43	N/A
5.4.1.5.3	Thermal cycling	.0	N/A
5.4.1.6	Insulation in transformers with varying dimensions	4	N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage		N/A
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.10.2	Vicat softening temperature:		N/A
5.4.1.10.3	Ball pressure:	* * *	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.4.2	Clearances	* 2	N/A
5.4.2.2	Determining clearance using peak working voltage	* 3	N/A
5.4.2.3	Determining clearance using required withstand voltage	, t	N/A
	a) a.c. mains transient voltage:		_
./	b) d.c. mains transient voltage:	Ø <u>5</u> °	
	c) external circuit transient voltage:	(_
	d) transient voltage determined by measurement	L 197 300 .	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	*	N/A
5.4.2.5	Multiplication factors for clearances and test voltages:		N/A
5.4.3	Creepage distances:	3	N/A
5.4.3.1	General	4	N/A
5.4.3.3	Material Group:	* * *	_
5.4.4	Solid insulation	74, 74, 4	N/A
5.4.4.2	Minimum distance through insulation:		N/A
5.4.4.3	Insulation compound forming solid insulation	3	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints	10 E	N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements	, (C)	N/A
5.4.4.6.2	Separable thin sheet material	-	N/A
	Number of layers (pcs)	·	N/A
5.4.4.6.3	Non-separable thin sheet material	* 3	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:	F 47	N/A
5.4.4.6.5	Mandrel test	ot .	N/A
5.4.4.7	Solid insulation in wound components	* 5	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz:	317	N/A
5.4.5	Antenna terminal insulation	No such terminal	N/A
5.4.5.1	General	<i>□</i>	N/A
5.4.5.2	Voltage surge test		N/A
*	Insulation resistance (MΩ):	2	_
5.4.6	Insulation of internal wire as part of supplementary safeguard:	* * 54	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.4.7	Tests for semiconductor components and for cemented joints	T 3/0 4	N/A
5.4.8	Humidity conditioning	₹Ø ₹	N/A
	Relative humidity (%):	· A	_
	Temperature (°C):	L & 3	_
	Duration (h):	(V Z)	
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 3, 5	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 2 5	N/A
5.4.10.2	Test methods	30	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:	YOU 140 4	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	4	N/A
5.4.11.2	Requirements		N/A
4	Rated operating voltage U _{op} (V):		
	Nominal voltage U _{peak} (V):		_
	Max increase due to variation U _{sp} :		
	Max increase due to ageing ∆Usa:	·	_
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$:	* 3	_
5.5	Components as safeguards	* 3	4
5.5.1	General	.L	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	4,	N/A
5.5.6	Resistors	,L ,L ,L	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	* 3	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:		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
4	Protective earthing conductor size (mm²)	<i>*</i>	_
5.6.4	Requirement for protective bonding conductors	* 3	N/A
5.6.4.1	Protective bonding conductors	7.0	N/A
40	Protective bonding conductor size (mm²):		
4	Protective current rating (A):		_
5.6.4.3	Current limiting and overcurrent protective devices	Till Till 5	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement	, L &	N/A
. (Conductor size (mm²), nominal thread diameter (mm).	At San L	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	<i>⋈</i> <u> </u>	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	100	N/A
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections	4	N/A
4	System of interconnected equipment (separate connections/single connection)	A 3100 8	_
4	Multiple connections to mains (one connection at a time/simultaneous connections)	\$.0	_
5.7.4	Earthed conductive accessible parts	* * * *	N/A
5.7.5	Protective conductor current		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Supply Voltage (V)	* 3	_
*	Measured current (mA)	A 3	_
	Instructional Safeguard		N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	L OF STO	N/A
5.7.6.1	Touch current from coaxial cables	9 3	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	+ 400 400	N/A
4	a) Equipment with earthed external circuits Measured current (mA):	<i>\$</i>	N/A
4	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	10th 45 AT	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		Р
6.2.2	Power source circuit classifications	4 4	Р
6.2.2.1	General	1,40	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)	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	.47	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	d 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	L 4 30	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	1 10t 41	N/A
6.4.3.1	General	₹Ø ₹	N/A
6.4.3.2	Supplementary Safeguards	•	N/A
	Special conditions if conductors on printed boards are opened or peeled	of the street	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	, 4	Р
6.4.5.2	Supplementary safeguards:	PCB: V-0; Fire enclosure used: V-0	F P
6.4.6	Control of fire spread in PS3 circuit		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	7, 4,	Р
6.4.8	Fire enclosures and fire barriers	A CONTRACTOR OF THE CONTRACTOR	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	10t 41	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)		N/A
<i>/</i>	Needle Flame test	> <	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm):	L NOT	N/A
	Flammability tests for the bottom of a fire enclosure	300	N/A
6.4.8.3.5	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	- A	Р
6.5.1	Requirements	4 4 5	P



· ·	IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
6.5.2	Cross-sectional area (mm²):	Less than 0.5mm ²	_		
6.5.3	Requirements for interconnection to building wiring:	A	N/A		
6.6	Safeguards against fire due to connection to additional equipment	4 70	Р		
.4	External port limited to PS2 or complies with Clause Q.1		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	A 6	N/A
7.4	Use of personal safeguards (PPE)		N/A
^	Personal safeguards and instructions:	4	_
7.5	Use of instructional safeguards and instructions		N/A
	Instructional safeguard (ISO 7010)	* * *	_
7.6	Batteries:	(See appended tables Annex M)	Р

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General		Р
8.2	Mechanical energy source classifications		P
8.3	Safeguards against mechanical energy sources	L	Р
8.4	Safeguards against parts with sharp edges and corners	400	Р
8.4.1	Safeguards	MS1 classification	N/A
8.5	Safeguards against moving parts	L	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	*	N/A
8.5.2	Instructional Safeguard	.	_
8.5.4	Special categories of equipment comprising moving parts	10t Ziv	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	, pt - 43	N/A
8.5.4.2.1	Safeguards and Safety Interlocks		N/A
8.5.4.2.2	Instructional safeguards against moving parts	4	_ N/A
	Instructional Safeguard:	.L .AL	_
8.5.4.2.3	Disconnection from the supply		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2.4	Probe type and force (N)	* 5.	N/A
8.5.5	High Pressure Lamps	4 50	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	Mass < 7kg	N/A
8.6.1	Product classification	MS1	N/A
6	Instructional Safeguard	(A	_
8.6.2	Static stability		N/A
8.6.2.2	Static stability test	> 4	N/A
3	Applied Force	* .	_
8.6.2.3	Downward Force Test	* * *	N/A
8.6.3	Relocation stability test	(4)	N/A
-0	Unit configuration during 10° tilt:		_
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force)		N/A
4	Position of feet or movable parts	7 7	_
8.7	Equipment mounted to wall or ceiling		N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	* *	N/A
8.7.2	Direction and applied force	₹ ×	N/A
8.8	Handles strength	·	N/A
8.8.1	Classification	300	N/A
8.8.2	Applied Force	E ,	N/A
8.9	Wheels or casters attachment requirements		N/A
8.9.1	Classification		N/A
8.9.2	Applied force	× 4.	
8.10	Carts, stands and similar carriers	*	N/A
8.10.1	General	AL 300	N/A
8.10.2	Marking and instructions	20	N/A
	Instructional Safeguard		
8.10.3	Cart, stand or carrier loading test and compliance	A 40	N/A
~	Applied force		_
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
	Applied horizontal force (N)		



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Clause	Requirement + Test	Result - Remark	Verdict	
8.10.6	Thermoplastic temperature stability (°C)	* 2	N/A	
8.11	Mounting means for rack mounted equipment	A 2	N/A	
8.11.1	General		N/A	
8.11.2	Product Classification	1 20	N/A	
8.11.3	Mechanical strength test, variable N	* * *	N/A	
8.11.4	Mechanical strength test 250N, including end stops	4	N/A	
8.12	Telescoping or rod antennas		N/A	
	Button/Ball diameter (mm)		_	

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	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		
10.2	Radiation energy source classification	RS1	Р
10.2.1	General classification	* %	P
10.3	Protection against laser radiation	No laser.	N/A
	Laser radiation that exists equipment:	, Y 7,	_
	Normal, abnormal, single-fault	2	N/A
	Instructional safeguard	-	_
4	Tool		_
10.4	Protection against visible, infrared, and UV radiation	LED light	Р
10.4.1	General	,L	Р
10.4.1.a)	RS3 for Ordinary and instructed persons		N/A
10.4.1.b)	RS3 accessible to a skilled person	<i>√</i> 0	N/A
	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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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	, 4	N/A
-	Instructional safeguard for skilled person	*	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	THE THE THE	_
*	Abnormal and single-fault condition	7	N/A
	Maximum radiation (pA/kg)		N/A
10.6	Protection against acoustic energy sources	* * *	Р
10.6.1	General	<u> </u>	Р
10.6.2	Classification	RS2	Р
	Acoustic output, dB(A)	2	N/A
y 4	Output voltage, unweightedr.m.s.	Maximum volume: Right:116.0mV;Left: 116.0mV Warning: Right: 24.9V; Left: 24.5mV	Р
10.6.4	Protection of persons	2	P
A STATE OF THE STA	Instructional safeguards	1. Symbol ; 2. "high sound pressure" or equivalent wording; 3. "hearing damage risk" or equivalent wording; 4. "do not listen at high volume levels for long periods" or equivalent wording.	Р
A+	Equipment safeguard prevent ordinary person to RS2	Automatically return to RS1 level when the power is switched off.	_
40	Means to actively inform user of increase sound pressure	Warning: hearing damage risk or equivalent wording	_
X -	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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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	4 30	N/A		
	Maximum dB(A) :	A 10 5	_		
10.6.5.3	Cordless listening device		N/A		
	Maximum dB(A) :	L &	_		

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND	NORMAL OPERATING DITION TESTS	Р
B.2	Normal Operating Conditions	See the following details.	P
B.2.1	General requirements:	(See summary of testing and appended table)	Р
4	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	149	Р
B.3.1	General requirements	See below	Р
B.3.2	Covering of ventilation openings	at Ke	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.	at sta	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	Р
B.4	Simulated single fault conditions	.0	Р
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:	A 3107 4	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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Clause	Requirement + Test	Result - Remark	Verdict			
B.4.4.3	Short circuit of functional insulation on coated printed boards	L 10 - 200	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	7	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 210 210		3,0	N/A
C.1.2	Requirements	4			N/A
C.1.3	Test method			۸_	N/A
C.2	UV light conditioning test	*	大		N/A
C.2.1	Test apparatus	140		4	N/A
C.2.2	Mounting of test samples			<i>*</i>	N/A
C.2.3	Carbon-arc light-exposure apparatus				N/A
C.2.4	Xenon-arc light exposure apparatus	1	大		N/A

D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator	7	N/A
D.3	Electronic pulse generator	4	N/A

E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS	
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	LN/A



F.3.6.1

F.3.6.1.1

F.3.6.1.2

F.3.6.1.3

F.3.6.2

Class I Equipment

Neutral conductor terminal

Protective earthing conductor terminal

Protective bonding conductor terminals

Class II equipment (IEC60417-5172)

	IEC/EN 62368-	1	
Clause	Requirement + Test	Result - Remark	Verdict
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	A	INSTRUCTIONAL SAFEGUARDS	
F.I	General requirements	Instructions in English	PL
	Instructions – Language:	Instructions in English arereviewed.	_
F.2	Letter symbols and graphical symbols	4 0 2	Р
F.2.1	Letter symbols according to IEC60027-1	K. 5.	Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	* *	Р
F.3	Equipment markings	¥ 4, 4,	Р
F.3.1	Equipment marking locations		Р
F.3.2	Equipment identification markings	.0 /	P
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	10 Zu Z	N/A
F.3.3.3	Nature of supply voltage	, de	_
F.3.3.4	Rated voltage	3	_
F.3.3.4	Rated frequency:	1 4	_
F.3.3.6	Rated current or rated power:	20 Z L	_
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device	70 -	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:	4	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



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Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.2.1	Class II equipment with or without functional earth	* 3	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	1 2 2	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		Р
	a) Equipment for use in locations where children not likely to be present - marking	* 5	N/A
	b) Instructions given for installation or initial use		Р
F 3	c) Equipment intended to be fastened in place	2 7	N/A
	d) Equipment intended for use only in restricted access area	<u> </u>	N/A
Ą.	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		N/A
	f) Protective earthing employed as safeguard		N/A
	g) Protective earthing conductor current exceeding ES 2 limits	<i>→</i>	N/A
	h) Symbols used on equipment	T 30	Р
٠,	i) Permanently connected equipment not provided with all-pole mains switch		N/A
4.0	j) Replaceable components or modules providing safeguard function	<i>d</i> ₹	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	A A 40	N/A



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

G	COMPONENTS		
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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.2	Relays	10 Z	N/A
G.2.1	General requirements	No relays.	N/A
G.2.2	Overload test	4 19 1	N/A
G.2.3	Relay controlling connectors supply power	7 2 7	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)	5	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	hermal 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	10 E 1	N/A
, 4	Aging hours (H)	- L	_
	Single Fault Condition:	100	_
- 4	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	ø.	N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N/A
G.4	Connectors	- 4	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	<u> </u>	N/A
G.5	Wound Components		N/A
G.5.1	Wire insulation in wound components		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	T 10 30	N/A
G.5.1.2 b)	Construction subject to routine testing	Ø <	N/A
G.5.2	Endurance test on wound components		N/A
G.5.2.1	General test requirements	L 0+ 25	N/A
G.5.2.2	Heat run test	Ø <u>2</u>	N/A
	Time (s)		_
	Temperature (°C):	* 4	_
G.5.2.3	Wound Components supplied by mains	F 74, 4	N/A
G.5.3	Transformers	,	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1):	A 300 R	N/A
1	Position:	300	_
	Method of protection		_
G.5.3.2	Insulation	L 4 30	N/A
	Protection from displacement of windings:	10 10 A	_
G.5.3.3	Overload test		N/A
G.5.3.3.1	Test conditions	<u> </u>	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	<u></u>	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	A 300 (N/A
G.5.4	Motors	2	Р
G.5.4.1	General requirements	, C	Р
	Position:	4.	_
G.5.4.2	Test conditions	F 4	N/A
G.5.4.3	Running overload test	A- K	N/A
G.5.4.4	Locked-rotor overload test	+ 100	N/A
	Test duration (days):		_
G.5.4.5	Running overload test for d.c. motors in secondary circuits	A 300 -	N/A
G.5.4.5.2	Tested in the unit		N/A
.0	Electric strength test (V)		
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	4 10 4	N/A
4	Electric strength test (V):		_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	L 4- 40	Р
G.5.4.6.2	Tested in the unit		Р



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Clause	Requirement + Test	Result - Remark	Verdict
	Maximum Temperature	(See appended table B.4)	N/A
大	Electric strength test (V)	* 300	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	*	N/A
	Electric strength test (V)	1 1 1 2	N/A
G.5.4.7	Motors with capacitors	Q 3	N/A
G.5.4.8	Three-phase motors	4	N/A
G.5.4.9	Series motors	* * *	N/A
	Operating voltage	F 34 4	_
G.6	Wire Insulation		N/A
G.6.1	General	A D	N/A
G.6.2	Solvent-based enamel wiring insulation		N/A
G.7	Mains supply cords	- 70	N/A
G.7.1	General requirements	Not directly connected to mains	N/A
	Туре	* * *	_
4	Rated current (A):	10 70 4	_
	Cross-sectional area (mm²), (AWG):		_
G.7.2	Compliance and test method		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	4 1	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):	4 80	
G.7.3.2.4	Strain relief comprised of polymeric material	L 30	N/A
G.7.4	Cord Entry:		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements	4 5	N/A
G.7.5.2	Mass (g)		_
	Diameter (m)		_
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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Clause	Requirement + Test	Result - Remark	Verdict
G.8.1	General requirements	* 3	N/A
G.8.2	Safeguard against shock	* 30	N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test	1 547	N/A
G.8.3.3	Temporary overvoltage	4 4 4	N/A
G.9	Integrated Circuit (IC) Current Limiters	4	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	F 34, 4,	N/A
G.9.1 c)	Supply source does not exceed 250 VA		_
G.9.1 d)	IC limiter output current (max. 5A)	. 45 0	_
G.9.1 e)	Manufacturers' defined drift		_
G.9.2	Test Program 1	4.	N/A
G.9.3	Test Program 2	AL-	N/A
G.9.4	Test Program 3	* * *	N/A
G.10	Resistors		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	the true	N/A
G.10.3.1	General requirements	* * *	N/A
G.10.3.2	Voltage surge test	<u> </u>	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	7 2	N/A
G.11.3	Rules for selecting capacitors	*	N/A
G.12	Optocouplers	AL 150	N/A
	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		_
	Routine test voltage, Vini,b:		_
G.13	Printed boards	4	Р
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards		Р



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Clause	Requirement + Test	Result - Remark	Verdict
G.13.3	Coated printed boards	* 3	N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
,	Compliance with cemented joint requirements (Specify construction):	4	
G.13.5	Insulation between conductors on different surfaces		N/A
4.	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 20 F	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	\(\sqrt{0}\) \(\delta\) \(\delta	N/A
G.13.6.2c)	Abrasion resistance test	7	N/A
G.14	Coating on components terminals	*	N/A
G.14.1	Requirements:	A A S	N/A
G.15	Liquid filled components	3, 5,	N/A
G.15.1	General requirements	<u> A</u>	N/A
G.15.2	Requirements	4	N/A
G.15.3	Compliance and test methods	AL 20	N/A
G.15.3.1	Hydrostatic pressure test	₹	N/A
G.15.3.2	Creep resistance test	- 4 K	N/A
G.15.3.3	Tubing and fittings compatibility test	70	N/A
G.15.3.4	Vibration test		N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test	. J Z.	N/A
G.15.4	Compliance	ار کی	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	4 50 4	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



	IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
D2)	Capacitance:	A 25	_		
D3)	Resistance	4 3	_		

Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	8	N/A
H.1	General	4 1 1 2	N/A
H.2	Method A	× 4	N/A
H.3	Method B	, <u>_</u>	N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)	- 4, 4	_
H.3.1.2	Voltage (V)	<i></i>	_
H.3.1.3	Cadence; time (s) and voltage (V)		_
H.3.1.4	Single fault current (mA):	140 L 5	_
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	14 74 E	N/A
H.3.2.3	Monitoring voltage (V)		_

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

K	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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Clause	Requirement + Test		Result - Remark	Verdict
K.7.4	Electric strength test	:		N/A

			N/A
L	DISCONNECT DEVICES		
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

M	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	Р
M.4	Additional safeguards for equipment containing secondary lithium battery		Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Charging operating limits		Р
M.4.2.2a)	Charging voltage, current and temperature:		_



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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 (m³/s):		_
M.8.2.3	Correction factors:		_
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A



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Clause	Requirement + Test	Result - Remark	Verdict		
M.9.2	Tray for preventing electrolyte spillage	377	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		

N	ELECTROCHEMICAL POTENTIALS		N/A
	Metal(s) used:		_

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

Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	Р
P.1	General requirements	No openings to the internal circuits	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
	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	No 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	No metallized coatings or 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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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	
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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Clause	Requirement + Test	Result - Remark	Verdict
	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
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A
4		AT S	
Т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements		P
T.2	Steady force test, 10 N		N/A
T.3	Steady force test, 30 N		N/A
T.4	Steady force test, 100 N		Р
T.5	Steady force test, 250 N	(See appended table T.5)	N/A
T.6	Enclosure impact test		N/A
	Fall test	(See appended table T.6)	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
T.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)		



	IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	Height (m)		_		
T.10	Glass fragmentation test	No glass.	N/A		
T.11	Test for telescoping or rod antennas		N/A		
	Torque value (Nm)		_		

U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION		N/A
U.1	General requirements	No CRTs.	N/A
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)				
V.1	Accessible parts of equipment		Р		
V.2	Accessible part criterion		Р		



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Clause	Requirement + Test		Result - Remark	太	Verdict

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

Differences according to...... EN 62368-1:2014+A11:2017

Attachment Form No...... EU_GD_IEC62368_1B_II

Attachment Originator Nemko AS

Master Attachment Date 2017-09-22

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	CENELEC COMMON MODIFICATIONS (EN)					Р	
4	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2014 are prefixed "Z".					n P	
CONTENTS	Add the following annexes: Annex ZA (normative) Annex ZB (normative) Annex ZB (normative) Annex ZC (informative) Annex ZD (informative)					P	
- 4	Delete all the "country" notes in the reference document (IEC 62368-1:2014) according to the following list:					Р	
	0.2.1	Note	1	Note 3	4.1.15	Note	A.
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	
	For special national conditions, see Annex ZB.						Р
ich s	electrical and	wing note: ne use of certai d electronic equ J: see Directive	ipment is re	estricted	× ×	at zi	P



		IEC/EN 62368-		
Clause	Requirement + Test		Result - Remark	Verdict
4.Z1	Add the following new subclause	after 4.9:	* 3	N/A
	To protect against excessive curre and earth faults in circuits connect mains, protective devices shall be as integral parts of the equipment the building installation, subject to b) and c):	ed to an a.c. included either or as parts of		+ Zight
	 a) except as detailed in b) and c), devices necessary to comply with requirements of B.3.1 and B.4 sha parts of the equipment; 	the		A ROOT
	b) for components in series with the equipment such as the supply coupler, r.f.i. filter and switch, short earth fault protection may be proviprotective devices in the building it	cord, appliance t-circuit and ided by		
	c) it is permitted for pluggable eq or permanently connected equip dedicated overcurrent and short-c in the building installation, provide of protection, e.g. fuses or circuit to specified in the installation instruct	oment, to rely on ircuit protection d that the means preakers, is fully		
	If reliance is placed on protection installation, the installation instruct state, except that for pluggable e A the building installation shall be providing protection in accordance of the wall socket outlet.	tions shall so quipment type regarded as		Significant of the same of the
5.4.2.3.2.4	Add the following to the end of thi	s subclause:	4	N/A
	The requirement for interconnection circuit is in addition given in EN 5			
10.2.1	Add the following to c) and d) in tab	le 39:	4	N/A
	For additional requirements, see 1	0.5.1.	, I	



	IEC/EN	62368-1		
Clause	Requirement + Test	Re	sult - Remark	Verdict
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measu under the following conditions:	rement	t zich	N/A
	In addition to the normal operating condition controls adjustable from the outside by han any object such as a tool or a coin, and tho internal adjustments or presets which are no locked in a reliable manner, are adjusted so give maximum radiation whilst maintaining intelligible picture for 1 h, at the end of which measurement is made.	d, by se ot o as to an ch the		
	NOTE Z1 Soldered joints and paint locking examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 1 at any point 10 cm from the outer surface of apparatus.	0 cm²,		
	Moreover, the measurement shall be made fault conditions causing an increase of the voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.			
	For RS1, the dose-rate shall not exceed 1 µ taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.			Till Ti
10.6.1	Add the following paragraph to the end of t subclause:	he	* 400	N/A
	EN 71-1:2011, 4.20 and the related tests mand measurement distances apply.	ethods		Fig. 5
10.Z1	Add the following new subclause after 10.6	5.5.	3	N/A
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz			* 3
	The amount of non-ionizing radiation is region by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitati exposure of the general public to electroma fields (0 Hz to 300 GHz).	on of		
	For intentional radiators, ICNIRP guidelines be taken into account for Limiting Exposure Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For held and body-mounted devices, attention is to EN 50360 and EN 50566	to or hand-		
G.7.1	Add the following note: NOTE Z1 The harmonized code designation corresponding to the IEC cord types are given Annex ZD.		416+ 41	N/A



				STS230317004001E	
4		IEC/EN 62368		7	
Clause	Requirement + Test		Result - Ren	nark	Verdict
Bibliography	Add the following standards:			* 3	Р
	Add the following notes for the sta	ndards indicate	ed:		
	IEC 60130-9 NOTE Harmon	nized as EN 60	130-9.		*
	IEC 60269-2 NOTE Harmon	nized as HD 60	269-2.		
	IEC 60309-1 NOTE Harmon	nized as EN 60	309-1.		4
	IEC 60364 NOTE some p	arts harmonize	d in HD 384/HD	60364 series.	
	IEC 60601-2-4 NOTE Harmon	nized as EN 606	601-2-4.		. (
	IEC 60664-5 NOTE Harmon	ized as EN 606	664-5.		
	IEC 61032:1997 NOTE Harmon	ized as EN 610)32:1998 (not m	odified).	
		ized as EN 615			
	IEC 61558-2-1 NOTE Harmor	nized as EN 615	558-2-1.		
	IEC 61558-2-4 NOTE Harmor	nized as EN 615	558-2-4.		
		ized as EN 615			
		ized as EN 616			
		ized as EN 616			
		ized as EN 616			
		nized as EN 616			
		nized as EN 616			
ZB	ANNEX ZB, SPECIAL NATIONA				Р
4.1.15			S (LIV)		
4.1.15	Denmark, Finland, Norway and S				N/A
	To the end of the subclause the fo	•			
	Class I pluggable equipment type connection to other equipment or a				4
	if safety relies on connection to rel				
	if surge suppressors are connected	d between the	4		
	network terminals and accessible				
	marking stating that the equipment connected to an earthed mains so				
	The marking text in the applicable		_		
	be as follows:	Courtines shall	()*		3
	In Denmark:				
	"Apparatetsstikpropskaltilsluttesen		d l		
	jordsom giver forbindelsetilstikprop	ppensjord."			*
	In Finland : "Laite on	<u> </u>			
	liitettäväsuojakoskettimillavarustet	tuunpistorasiaa	n		
	In Norway : "Apparatetmåtilkoplesj	ordetetikkontak	t "		
	In Sweden : "Apparatenskallanslut				
	jordatuttag"	as un			
4.7.3	United Kingdom			<u></u>	N/A
	To the end of the subclause the fo	llowing is added	d:		
	The torque test is performed using	•			
*	complying with BS 1363, and the p				L
	assessed to the relevant clauses of				
	see Annex G.4.2 of this annex				



	IEC/EN 623	68-1	A
Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.2	Denmark After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceed the limits of 3,5 mA a.c. or 10 mA d.c.		N/A
5.4.11.1 and	Finland and Sweden	4 10 2	N/A
Annex G	To the end of the subclause the following is add	ded:	.(_
	For separation of the telecommunication netwo from earth the following is applicable:	rk	
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	ALL RIVER AND	
	• two layers of thin sheet material, each of whice shall pass the electric strength test below, or	h d	
	 one layer having a distance through insulation at least 0,4 mm, which shall pass the electric strength test below. 	n of	
	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 a in addition		- 45
	 passes the tests and inspection criteria of 5.4. with an electric strength test of 1,5 kV multiplied 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and 		4
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.	h 🔻	S.C.t
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 6038 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 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;		
	• the additional testing shall be performed on al the test specimens as described in EN 60384-1		
	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.		,



	IEC/EN 62368-		
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).		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.		N/A
5.6.1	Denmark Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	with with with	N/A
5.6.4.2.1	Ireland and United Kingdom After 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.		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 mm² to 1,5 mm² in cross-sectional area.		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.		N/A



		IEC/EN 62368-1	<i>X</i>		
Clause	Requirement + Test		Result - Remark	Verdict	
5.7.6.1	Norway and Sweden		*	N/A	
	To the end of the subclause the	he following is added:	AL (48)		
	The screen of the television d normally not earthed at the er and there is normally no equip system within the building. The earthing of the building installation isolated from the screen of a consystem.	ntrance of the building potential bonding perefore the protective ation needs to be	,	int state	
	It is however accepted to provexternal to the equipment by a interconnection cable with gal may be provided by a retailer,	an adapter or an Ivanic isolator, which		7 5	
	The user manual shall then has similar information in Norwegi language respectively, dependently the equipment is inter-	an and Swedish ding on in what		+ 410 41	
	"Apparatus connected to the particle building installation through connection or through other a connection to protective earth television distribution system may in some circumstances of Connection to a television distribution to a television distribution be provided to providing electrical isolation be frequency range (galvanic iso	the mains pparatus with a ing – and to a using coaxial cable, create a fire hazard. tribution system hrough a device elow a certain			
	11)" NOTE In Norway, due to regularistallations, and in Sweden, a shall provide electrical insulation the insulation shall withstand of 1,5 kV r.m.s., 50 Hz or 60 Hz	ulation for CATV- a galvanic isolator ion below 5 MHz. a dielectric strength		ALIER AND	
	Translation to Norwegian (the also be accepted in Norway):		,		
	"Apparatersomerkoplettilbesk nettpluggog/eller via annetjord ogertilkoplet et koaksialbasert kanforårsakebrannfare. For å unngådetteskaldetvedtilkoplin TV nettinstalleresengalvanisk mellomapparatetogkabel-TV r	dtilkopletutstyr – tkabel-TV nett, gavapparatertilkabel- isolator		t stat	
	Translation to Swedish: "Apparatersomärkopplad till s	kyddsjord via	\tag{\tau}	zi d	
	jordatvägguttagoch/eller via annanutrustningochsamtidigtä TV nätkanivissa fall medfőra r Főrattundvikadettaskall vid an till kabel-TV nätgalvanisk isola finnasmellanapparatenochkal	risk főr brand. nslutningavapparaten ator	ALIENT ALIEN		



	IEC/EN	62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.2	Denmark To the end of the subclause the following is The warning (marking safeguard) for high t current is required if the touch current or th protective current exceed the limits of 3,5 r	ouch e	N/A
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive currents and circuits in the primary circuit of direct plug equipment, tests according to Annexes B. B.4 shall be conducted using an external micircuit breaker complying with EN 60898-1. B, rated 32A. If the equipment does not patests, suitable protective devices shall be in as an integral part of the direct plug-in equipment, until the requirements of Anne B.3.1 and B.4 are met	-in 3.1 and hiniature , Type ss these holuded	N/A
G.4.2	Denmark To the end of the subclause the following is Supply cords of single phase appliances ha rated current not exceeding 13 A shall be p with a plug according to DS 60884-2-D1:20 CLASS I EQUIPMENT provided with socked outlets with earth contacts or which are integrated be used in locations where protection again indirect contact is required according to the rules shall be provided with a plug in according with standard sheet DK 2-1a or DK 2-5a.	aving a provided prov	N/A
	If a single-phase equipment having a RATI CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with plug, this plug shall be in accordance with standard sheets DK 6-1a in DS 60884-2-D 60309-2. Mains socket outlets intended for providing to Class II apparatus with a rated current of shall be in accordance DS 60884-2-D1:207 standard sheet DKA 1-4a. Other current rating socket outlets shall be compliance with Standard Sheet DKA 1-3a 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 1-7a Justification: Heavy Current Regulations, Section 6c	nse vith a the 1 or EN power f 2,5 A 11 in or DKA	ATTENDED TO A STREET AND A STRE



	IEC/EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.4.2	United Kingdom	* 3	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.	et with with	
G.7.1	United Kingdom		N/A
ALCO TO THE PARTY OF THE PARTY	To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		
G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the	giet great great	N/A
	recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	-	
G.7.2	Ireland and United Kingdom To the first paragraph the following is added:	J. Z. Z. V.	N/A
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.		



	IEC/EN 62368	-1	
Clause	Requirement + Test Result - Remark		Verdict
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	A 31	N/A
10.5.2	Germany The following requirement applies:		N/A
	For the operation of any cathode ray tube intende 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.	d with white	*
	Justification: 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	+ Alet Alet Ale	



		IEC/EN 62368-1	太
Clause	Requirement + Test	Result - Remark	Verdict

4.1.2 T	ABLE:	List of critical com	ponents			Р	
Object / part No	0.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹	
Charger		Guangdong Quanzhi Technology Co., Ltd.	QZ-01000EA00	Input:100-240V~ 50/60Hz 0.3A Output: DC5.0V/2.0A	EN IEC 62368- 1:2020+A11:2 020	CB Test report No.: CN22SZP7 001	
Rechargeable Battery	Li-ion	Shenzhen Hua TianTong Technology Co., Ltd. / Blackview	Li765974HT	3.85Vd.c, 6580mAh, 25.333Wh	IEC 62133-2: 2017	Test Report no.: ORTSZB012302 02005	
(Alternative)		Shenzhen Hua TianTong Technology Co., Ltd. / OSCAL	Li765974HT	3.85Vd.c, 6580mAh, 25.333Wh	IEC 62133-2: 2017	Test Report no.: ORTSZB012303 02003	
Flash LED	4	ANHUI RETOP ELECTRONICS CO. LTD.	NLW1016AV1*	DC3V, 150mA, exempt group	IEC 62471:2006 EN 62471:2008	SGS Report No.:SHES22010 0197571	
LCD screen		LEAD COMMUNICATIO NS LTD.	DK61PTS06H5 GQ	6.088"	EN 62368-1	Tested withappliance	
Speaker	٢	Dragonstate Electronic Corporation	HDK- 171208ZA- BOX54	8Ω, 1.5W max.	EN 62368-1	Tested with appliance	
РСВ		RED BOARD LTD	H103D	V-0, 130°C	UL 94	UL E133472	
(Alternative)		Interchangeable	Interchangeable	V-0, 130°C	UL 94	UL	
Plastic enclosu	ire	SABIC INNOVATIVE PLASITCS B V	EXRL0246 (GG) DMX9455 (GG)	80°C, V-0, 1.5mm thickness Min.	UL 94	UL E45329	
(Alternative)	4	Interchangeable	Interchangeable	V-0, 80°C	UL 94	UL	
Vibration motor		Guangxi WeiYiTong Electronic Technology Co.,Ltd	VICR1020	Rated Voltage: DC 3.0V, 80mA max. Rated Speed 12000±3000rpm	EN 62368-1	Tested with appliance	

Supplementary information:

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

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



		IEC/EN	62368-1	J-
Clause	Requirement	+ Test	Result - Remark	Verdict
4.8.4, 4.8.5	TABLE: Lith	ium coin/button cell batterie	es mechanical tests	N/A
(The follow	ring mechanic	al tests are conducted in the	e sequence noted.)	
4.8.4.2	TABLE: Stre	ss relief test	٨, ٧	
Р	art	Material	Oven Temperature (°C)	Comments
	+ 3	· · · · · · · · · · · · · · · · · · ·		
4.8.4.3	TABLE: Batt	ery replacement test	4.	_
Battery part	no		<i>→</i>	_
Battery Insta	allation/withdra	wal	Battery Installation/Removal Cycle	Comments
		*	1	
			2	A
			3	70, 6
			4	
			5	L.L. S
	A 4.8.5 TABLE: Lithium coin/button cell batteries mechanical tests profolowing mechanical tests are conducted in the sequence noted.) 1.2 TABLE: Stress relief test Part Material Oven Temperature (°C) Commodified in the sequence noted.) 1.3 TABLE: Battery replacement test Part Material Oven Temperature (°C) Commodified in the sequence noted.) 1.3 TABLE: Battery replacement test Part Material Oven Temperature (°C) Commodified in the sequence noted.) 1.4 TABLE: Battery replacement test Part Material Oven Temperature (°C) Commodified in the sequence noted.) 1			
			8	
			9	A 3
			10	
4.8.4.4	TABLE: Dro	p test		_
Impa	ct Area	Drop Distance	Drop No.	Observations
		4	1 1 2	V
		7 4	2	
	> 4	.(3	
4.8.4.5	TABLE: Impa	act	£ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
Impacts p	per surface	Surface tested	Impact energy (Nm)	Comments
			76	
			- A	
<u> </u>	, (
4.8.4.6	TABLE: Crus	sh test	<u>* </u>	_
Test p	oosition	Surface tested	Crushing Force (N)	Duration force applied (s)
·		, L 2	4 2	
	* _		A 55°	
Supplement	ary information	L 3		40



				Report N	lo. STS2303170	004001E	
			IEC/EN	62368-1	4		^
Clause	Require	ement + Test		Result - F	Remark	*	Verdict
4.8.5	TABLE	: Lithium coin/button cell batteries mechanical test result			N/A		
Te	est position	Su	rface tested	Fo	rce (N)		ation force
·			A 10	7		<u> </u>	3
			3 7		d 2		
Supplen	nentary inforn	nation:					1
			L (0)	7	4		
5.2	TABLE	: Classification	of electrical energy	sources	* 0		Р
5.2.2.2 -	- Steady Stat	e Voltage and Cเ	ırrent conditions				
		Location (e.g.		F	Parameters		
No.	o. Voltage circuit				I (Apk or Arms)	Hz	ES Clas
水		No	Normal	<i>√ ←</i>			
1	5Vd.c	All internal	Abriornal	- -	ES1 (declared		
		Girodita	Single fault –				_ (GCOIGITEC

5.2.2.3 - Capacitance Limits

Full charged

battery

2

		Location (e.g.		Param	neters	
No.	Supply Voltage circuit designation)		Test conditions	Capacitance, nF	Upk (V)	ES Class
		7	Normal		<u>,</u>	4
\$	-		Abnormal	-	F 3:0	
	1		Single fault –	/ -		

Normal

Abnormal

Single fault -

Battery pack

output

5.2.2.4 - Single Pulses

No S	Supply	Location (e.g.	T		F0 01		
No. Voltage		circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class
		4	Normal	_	-	/	<u> </u>
			Abnormal	-		+ - Z	-4
		1	Single fault –		ک - ک		

ES1 (declared)



		IEC/EN 62368-1	*
Clause	Requirement + Test	Result - Remark	Verdict

	5.2.2.5 - Repetitive Pulses									
	NI.	Supply	Location (e.g.	T		Parameters		F0.01		
	No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class		
		↓		Normal		.	<u> </u>	7		
		4-		Abnormal		70	-			
4				Single fault –		-		*		

Test Conditions:

Normal -

Abnormal -

Supplementary information: SC=Short Circuit, OC=Short Circuit

TABLE: Temperature measureme	nts	A.	7		Р
Supply voltage (V):		See	below	<i>*</i>	_
Ambient T _{min} (°C)					_
Ambient T _{max} (°C)			=	-	_
Tma (°C)	-				_
		Т ((°C)		Allowed T _{max} (°C)
4	DC5Vcl	DC5Vcharging		Full battery discharging	
1102&U0601	61.1		58.0	-	130
11401-B	56.8		55.6		130
1200	53.5	<u> </u>	50.1		130
y	47.2		44.6		Ref.
nside near U1401-B	54.8		51.9		Ref.
	40.0	<	40.0		*
peratures (Clause 9)	4		l	<i>A</i> -	
outside near U1401-B	36.4	/	33.5		48
	27.1	3	27.3		48
Screen			31.8	~	48
face	40.0	- ,_	🔑		77
4 0	25.0		25.0		
	Supply voltage (V)	Tma (°C)	Supply voltage (V): See	Supply voltage (V)	Supply voltage (V): See below



				IEC/E	N 62368-		rt No.	STS230)3170	04001E	7
Clause	Requirement + 7	 Гest	4				t - Rem	ark		*	Verdict
	tary information: enclosure surface	of the equi	ipment (contact	t time >1 r	mins).			5		
Temperatur	e T of winding:	1	t ₁ (°C)	R ₁ (<u>c</u>	Ω) t_2 (°C)	R ₂ (Ω)	T (°C	,	Allowed	Insulation class
		(2)			-	- (-		- -	
/	+ 3			-	-	-0					
Note 1: Tma	tary information: a should be consion a is not included in							<u>+</u>	N.C.		
		Ť					4				
5.4.1.10.2	TABLE: Vicat s	oftening te	mperat	ture of	thermop	lastics			*	·	N/A
Penetration	(mm)				:						_
Object/ Part	No./Material					ufacture demark		-	Γ softe	ening (°C))
		1								- <u>*</u>	- 4
supplementa	ary information:				<u>'</u>		大				
	-0				*			31			
5.4.1.10.3	TABLE: Ball pre	essure tes	t of ther	rmopla	stics						N/A
Allowed imp	pression diameter	(mm)			: ≤ 2 m	nm				7	_
Object/Part	No./Material	Manufactu	urer/trad	lemark	Te	st temp	erature	(°C)	Impres	ssion dia	meter (mm
ا ما	<u> </u>				(5		- 2			-بار	
Supplement N/A	tary information:	<u> </u>		7					<		
	+ 3,						5				
5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimu	um Cleara	nces/Cı	reepag	je distand	ce				*	N/A
•	cl) and creepage) at/of/between:	U _l	•	r.m.s. (V)	Frequen y (kHz) ¹		uired mm)	cl (mm) ²		equired ³ r (mm)	cr (mm)
6			- 4				- 7			1	
Supplement	ary information:	4				l		•		l	
*											*
5.4.2.3	TABLE: Minimu	um Cleara	nces di	stance	es using i	require	d withs	stand vo	Itage		N/A
	Overvoltage Ca										
	Pollution Degree								:		
Clearance o	distanced between		Requi		hstand	Red	quired (Me	easured o	ol (mm)
							//>				//>



			IFC	E/EN 62368-	Report	No. S	TS230317	004001	E
Clause	Requiremen	t + Test	120	7/EIN 02000	Result -	Remark	k	<u></u>	Verdict
Supplemer	ntary informatio	on:	.0		I.		£		
N/A	*								
.			4	ا	140				
5.4.2.4	TABLE: Cle	earances bas	ed on electr	ic strength	test			4	N/A
Test voltag	ge applied betw	veen:	Requi		Test vol				kdown / No
(V			*				-	- 4
				-		- ,_		-	
Supplemer	ntary informatio	on:	, <u>, , , , , , , , , , , , , , , , , , </u>		*	4			
									+ 3
5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Dis	stance throug	gh insulation	n measurem	ents				N/A
Distance the insulation of		Peak \	/oltage /)	Frequency (kHz)	Mate	erial	Required (mm		DTI (mm)
	₹.	-	-	,				4	
Supplemen	ntary informatio	n:			4				L X
		<i>*</i>					1	4	
5.4.9	TABLE: Ele	ctric strengt	h tests		*				N/A
Test voltag	je applied betw	/een:		Voltage sh (AC, Do		Test	voltage (V	')	Breakdown Yes / No
		<u>.L</u>						7	
Supplemer	ntary information	on:				4	>		*
5.5.2.2	TABLE: Sto	ored discharg	je on capaci	itors		1			N/A
Supply Vol	tage (V), Hz	Test Location	Operating Condition (N, S)		n (a	easured fter 2 se	Voltage econds)	ES C	lassification
			#						=
Supplemer	ntary information	on:			<u> </u>				
X-capacito	rs installed for g resistor rating	testing are:							
	ee above	-							
A. Test Lo	cation:								
	leutral; Phase	to Phase; Pha	ase to Earth;	and/or Neut	ral to Ear	th			
	ng condition a								
N – Norma	ıl operating cor	ndition (e.g., n	ormal operat	ion, or open	fuse); S	-Single	fault condi	ition	



		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)	Res	istance (Ω)			
	٠,ـ	70 2				4			
Suppleme	entary information:	5	*	- CT					

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive par	L SEET STREET	N/A
Supply vol	ltage:	70 6	
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)
4	* 34 3	1	
.0		2*	* 3
	L 10 4	3	
		4	4
		5	1
*		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 po	TABLE: Electrical power sources (PS) measurements for classification						
Source	urce Description Measurement Max F		Max Power after 3 s	Max Power after 5 s*)	PS Classification			
*		Power (W):	A - 4	30.60	*			
A &	Battery pack	VA (V):	3 -	3.33	PS2			
		IA (A):	A- A	9.2				



		IEC/	EN 62368-1		
Clause	Requirement + Test	4	Result	- Remark	Verdict
		Power (W):		38.17	
B ^{&}	Battery cell	VA (V):		2.27	PS2
		IA (A):	* * *	16.8	
	*	Power (W):	4.3	<u>المرابع المرابع المر</u>	
C ^{&}	Type C output	VA (V):	3.58	70 C	PS1
	7 ~	IA (A):	1.2		at the second

Supplementary Information: SC=Short Circuit, OC=Open Circuit

- (*) Measurement taken only when limits at 3 seconds exceed PS1 limits
- (&) Power measurement for worst-case fault.

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

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_{rms}) is greater than 15.

6.2.3.2	.2.3.2 TABLE: Determination of Potential Ignition Sources (Resistive PIS)							
Circuit Lo	ocation (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		
Batter	y output		A X	V		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			_



	IEC	EN 62368-	1	
Clause	Requirement + Test	3	Result - Rema	rk Verdict
Manufacture	r:			<u> </u>
Cat no			A 3	_
Pressure (co	old) (MPa)	* -		MS_
Pressure (op	perating) (MPa)		,	MS_
Operating tir	ne (minutes):		* %	_
Explosion m	ethod:	+ 3	4	_
Max particle	length escaping enclosure (mm).:			MS_
Max particle	length beyond 1 m (mm):			MS_
Overall resul	lt:		7 4	
Supplementa	ary information:	4		At At S

B.2.5	TABLE: Inp	ut test	٠,		, 4			Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/statu	ıs
5.0Vdc	1.559	2	7.795	a ret	4	-35%	Empty battery charge. Batter 1.272A	-
5.0Vdc	1.684	2	8.42			and the same of th	Empty battery EUT running. I current: -0.875	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.

B.3	TABLE: Ab	normal op	erating cond	dition tests	V		4		P
Ambient temp	perature (°C)				;	See bel	ow	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, co	T- uple	Temp. (°C)	Observatio n
Speaker	SC	4.4	10mins		1		ŀ		Speaker shut down and other function as normal operation NO damaged on hazards.



	<u> </u>	IEC/EN 62368-1			*
Clause	Requirement + Test		Result - Remark	4	Verdict

Supplementary information:

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

No igntion during and after all tests.

B.4	TABLE: Fault	condition	tests	ہے		3			Р
Ambient tempe	rature (°C)			<u> </u>	:	23.0-25.	0	.1	_
Power source f	or EUT: Manufac	cturer, mode	el/type, c	output ra	ting .:	See cove	er page fo	or details	_
Component No.	Fault Condition	Supply voltage, (V)	Test time	Fuse no.	Fuse current, (A)	T- couple	Temp. (°C)	Obser	vation
R1012	S-C	5	10					Normal wor recoverable damage, no	, no
R1013	S-C	5	10					Normal wor recoverable damage, no	, no
C1020	S-C	5	10					Unit Shut do and recover damage no	able, no
C1013	S-C	5	10					Unit Shut do and recover damage no	able, no
R1404	S-C	4.4	10					Normal wor recoverable damage, no	, no
R1200	S-C	4.4	10					Normal wor recoverable damage, no	, no
C1210	S-C	4.4	10					Unit Shut do and recover damage no	able, no
C1209	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;



				IE	C/EN 6236	8-1				
Clause	Red	quirement -	+ Test	1	3	Result	- Remark		*	Verdict
Annex M	TA	BLE: Batte	eries	150				 		Р
The tests of	f Ann	ex M are a	pplicable c	only when ap	propriate b	attery data	is not avail	able		
Is it possible	e to ii	nstall the b	attery in a	reverse pola	rity position	1?	:		4	
		Non-red	chargeable	batteries		Re	echargeabl	e batteries		
		Disch	arging	Un- intentional	Chai	ging	Disch	arging		versed arging
		Meas. current	Manuf. Specs.	charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. currer during norm condition		450	5		1272mA	3000mA	2591mA	6000mA		
Max. currer during fault condition	nt	- -		-35	2287mA (U1401-B PinA1-G1 sc)	3000mA	3065mA (U1200 PinD4-C1 sc)	6000mA	- Triet	-20
Test results	:	4	,()	4			<u>↓</u>	决		Verdict
- Chemical	leaks		4		A -			NO		Р
- Explosion	of the	e battery		<u> </u>				NO	1	P
- Emission	of flai	me or expu	ulsion of mo	olten metal				NO		Р
- Electric sti	rengt	h tests of e	equipment a	after comple	tion of tests	:			*	
Supplemen	tary i	nformation	:	<u>.</u>	7.C+	4	4			4
Annex M.4		BLE: Addi	itional safe	eguards for	equipment	containing	g seconda	ry lithium		Р

Annex M.4	TABL batter		onal safeguards for equipment containing secondary lithium						
Battery/Cell		Test	Test conditions		Measurements	S	Observation		
N	0.				I (A)	Temp (°C)			
1 Z		Normal	Normal		1.272	47.6	No damaged, no hazard.		
2	2 Abnormal (after drop test)		4.4	1.273	48.2	No damaged, no hazard.			
.d- 3	3 4	Single fau	Single fault –SC/OC		2.287	49.4	No damaged, no hazard.		
Supplement	ary Info	ormation: SC = s	hort circuit.				4, 4		
identification		Charging at T _{lowest} (°C)	Observation		Charging at T _{highest} (°C)	Obs	servation		



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		IEC/EN 62368-1	¥
Clause	Requirement + Test	Result - Remark	Verdict

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
Li-ion battery	10	When the temperature of the battery body reaches 10℃,charge current: 1.34A	60	When the temperature of the battery body reaches 60℃,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 intended for interconnection with building wiring (LPS)						
Note: Measi	ured UOC (V) with all loa	d circuits discor	nected:		4	AL 18	
Output	Components	U _{oc} (V)	I _{sc} (A)		S (VA)		
Circuit			Meas.	Limit	Meas.	Limit	
Type-C output	Normal	5.01	1.2	8	4.3	100	
	Single fault	0	0	8	L 0	100	
Supplement N/A	ary Information:	4	.c.t	Jill d		L K	

T.2, T.3, T.4, T.5	ABLE: S	Steady force tes	t.S.				P
Part/Location		Material	Thickness (mm)	Force (N)	Test Duration (sec)	Obser	vation
Top of enclosure		Plastic	-	100	5	No damaged, no hazard	
Bottom of enclosure		Plastic	&	100	5	No damaged, no hazard	
Side of enclosure		Plastic		100	5	No damaged, no hazard	
Supplementary	Supplementary information:						

T.6, T.9	TABLE	E: Impact tests		4				N/A
Part/Location				Vertical distance (mm)				
	.1					7		
Supplemen	tary infor	mation:	Ø.			4		



	40, 4	IEC/EN 62368-1			*
Clause	Requirement + Test		Result - Remark	*	Verdict

T.7 TAI	.7 TABLE: Drop tests			P	
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation	
Top enclosure	Plastic	- N	1000	No damage,no hazard	
Side enclosure	Plastic	-	1000	No damage,no hazard	
bottom enclosure	Plastic	1000		No damage,no hazard	
Supplementary in	formation:	J+ 300		1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

T.8 TAB	LE: Stress relief t	est			P ./
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Enclosure	Plastic		70	7	No damaged, no hazards.
Supplementary in	formation:	4		.L ^	F 🐼
/					4.



Attachment1 – Photo Documentation



Fig.1



Fig.2





Fig.3



Fig.4



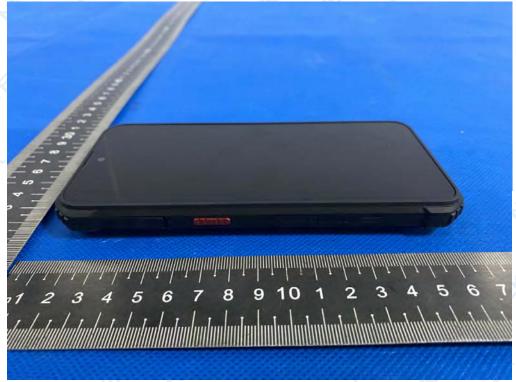


Fig.5



Fig.6







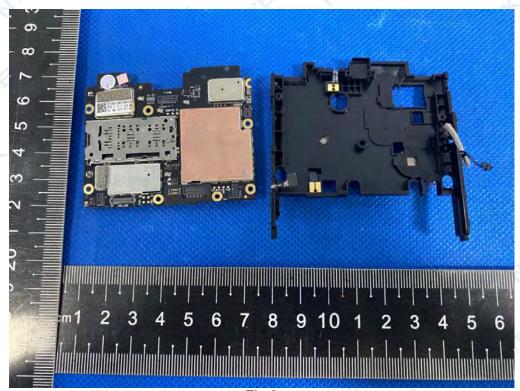


Fig.8



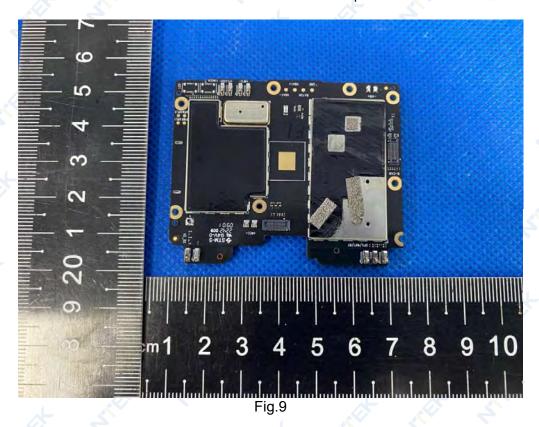








Fig.11







END OF REPORT