

TEST REPORT

Report No.: STS210908002001E

Product: 4G Tablet

Model No.: Tab 6

Applicant: DOKE COMMUNICATION (HK) LIMITED

Address: RM 1902 EASEY COMM BLDG 253-261 HENNESSY

ROAD WANCHAI HONG KONG 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::	STS210908002001E				
Tested by (+ signature):	Helen Lin Jobulin Coco Li Coca 1/2				
Approved by (+ signature):	Coco Li				
Date of issue:	2021-10-13				
Testing laboratory:	Shenzhen NTEK Testing Technology Co., Ltd.				
Address:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Baoʻan 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 HONG KONG 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	4G Tablet				
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	Tab 6				
Ratings	DC5V, 1A(by battery 3.8V 5580mAh 21.20Wh)				



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
Considered current rating of protective device as part of building or equipment installation:	mating connector ⊠ other: Micro USB connector N/A (Not directly connected to mains) Installation location: □building; □equipment
Equipment mobility	movable
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
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☐ IT V _{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. 0.372kg
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:	<i>i</i> → <i>i</i>
Date of receipt of test item	2021-09-09
Date (s) of performance of tests	2021-09-25 to 2021-09-30
A	
GENERAL REMARKS:	<i>★ Ø</i> ₹
"(See appended table)" refers to a table appended to Throughout this report a ☐ comma / ☒ point is use. When differences exist; they shall be identified in the commandation of the comm	sed as the decimal separator.
Name and address of factory (ies):	Same as manufacturer
GENERAL PRODUCT INFORMATION:	A 30 80 4
Product Description –	<i>A</i> +
The product isatablet, which supplied by a built-in rated, and certified external DC power supply account.	
2. Micro USB port only used for input.	

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

Copy of marking plate:

N/A

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.



Remark:

- The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.
- The CE marking and WEEE symbolshould be at least 5.0 mm and 7.0 mm respectively in height.



(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	PS1(Resistive PIS)
Battery pack/cell output	PS2(Resistive PIS)
Charger output	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 Corresponding classification (RS)



LED			RS1			
Acoustic		<u> </u>	RS2	2		4
	E	NERGY SC	URCE DIA	AGRAM		
Indicate which energy sources a	are include	d in the ene	rgy source	diagram. Insert diag	ram below	
7. 4.	٨	- 4	<u> </u>		. (
	⊠ ES	⊠ PS	⊠ MS	⊠ TS⊠RS		4

OVERVIEW OF EMPLOYEDSAFEO	GUARDS			٨_	
Clause	Possible Hazard		٠,	140	
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	PS1: Internal circuits PS2: Battery output PS1: Speaker circuit	For -N" and -A" conditions: 1, No ignition occurred. 2, No parts exceeding 90% of its spontaneo us ignition temperature.	For -\$" 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 (e.g., skilled)	Energy Source (hazardous material)	Basic	Safeguards 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			.1	
Body Part	Energy Source (Output from audio port)	Safeguards			
(e.g., Ordinary)		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) &}quot;N" - Normal Condition; "A" - Abnormal Condition; "S" Single Fault



	IEC/EN 62368-1			
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	Р	
4.1.2	Use of components	(See appended table 4.1.2)	Р	
4.1.3	Equipment design and construction	. *	Р	
4.1.15	Markings and instructions	(See Annex F)	Р	
4.4.4	Safeguard robustness		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)	N/A	
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	*	Р	
4.6.1	Fix conductors not to defeat a safeguard		Р	
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	,	N/A	
4.7.3	Torque (Nm)	A- 35°	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	
Ţ	Means to reduce the possibility of children removing the battery:		_	
4.8.4	Battery Compartment Mechanical Tests	~	N/A	
4.8.5	Battery Accessibility	,d+ 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		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	<u> </u>	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:	7 5 -	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		N/A	
5.3.2.2	Contact requirements	L X X	N/A	
	a) Test with test probe from Annex V:	X	N/A	
	b) Electric strength test potential (V):	× ×	N/A	
	c) Air gap (mm):		N/A	
5.3.2.4	Terminals for connecting stripped wire	4	N/A	
5.4	Insulation materials and requirements	A 5	Р	
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)	Р	
5.4.1.5	Pollution degree:	<u> </u>	_	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	F 45	N/A	
5.4.1.5.3	Thermal cycling	∅.	N/A	
5.4.1.6	Insulation in transformers with varying dimensions	A 2	N/A	
5.4.1.7	Insulation in circuits generating starting pulses	3	N/A	
5.4.1.8	Determination of working voltage	1 1	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:	X X	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	* 3	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:	L # 3	_
	b) d.c. mains transient voltage:	Ø 300	_
	c) external circuit transient voltage:		_
	d) transient voltage determined by measurement		_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	*	N/A
5.4.2.5	Multiplication factors for clearances and test voltages		N/A
5.4.3	Creepage distances:	4,	N/A
5.4.3.1	General	A-	N/A
5.4.3.3	Material Group:	* * *	_
5.4.4	Solid insulation	3,4 3,4	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		N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements	70 -	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 4 2 3	N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components	¥ 2	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz	35	N/A
5.4.5	Antenna terminal insulation	No such terminal	N/A
5.4.5.1	General	<i>₩</i> 4	N/A
5.4.5.2	Voltage surge test		N/A
<u>بار</u>	Insulation resistance (M Ω)	4	
5.4.6	Insulation of internal wire as part of supplementary safeguard:	* * *	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.4.7	Tests for semiconductor components and for cemented joints	L 25 4	N/A
5.4.8	Humidity conditioning	₹Ø ₹	N/A
	Relative humidity (%):		35
	Temperature (°C):	L & 3	_
	Duration (h):	8 3	_
5.4.9	Electric strength test:		N/A
5.4.9.1	Test procedure for a solid insulation type test		N/A
5.4.9.2	Test procedure for routine tests	F 30, 4	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 20 60	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	YO YO 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 ΔU _{sa} :	· ·	42
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$:	X+ 3/1	_
5.5	Components as safeguards	+ 3	
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	45	– N/A
5.5.6	Resistors		N/A
5.5.7	SPD's	27 29 -	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.5.7.1	Use of an SPD connected to reliable earthing	* 2	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	A 100 C	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 (mm²)	Z.F	<u> </u>
5.6.4	Requirement for protective bonding conductors	A 2 0	N/A
5.6.4.1	Protective bonding conductors	300	N/A
	Protective bonding conductor size (mm²):		_<
4,	Protective current rating (A):		_
5.6.4.3	Current limiting and overcurrent protective devices	310 310 A	N/A
5.6.5	Terminals for protective conductors	X.	N/A
5.6.5.1	Requirement	_ ~	N/A
	Conductor size (mm²), nominal thread diameter (mm).	A 300 L	N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective system	70	N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method Resistance (Ω)	<i>A</i> -	N/A
5.6.7	Reliable earthing	25 Z	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	. 20 -	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 300 F	
<i>A</i>	Multiple connections to mains (one connection at a time/simultaneous connections)	4	_
5.7.4	Earthed conductive accessible parts:	* * 5	N/A
5.7.5	Protective conductor current	37 37	N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
	Supply Voltage (V)	* 3	_	
*	Measured current (mA)	4 5		
	Instructional Safeguard		N/A	
5.7.6	Prospective touch voltage and touch current due to external circuits	L # 350	N/A	
5.7.6.1	Touch current from coaxial cables	(V) (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	F 350 30	N/A	
4	a) Equipment with earthed external circuits Measured current (mA):	<i>₩</i>	N/A	
	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	10 A. A.	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	5 4	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:		N/A
6.2.3	Classification of potential ignition sources		P
6.2.3.1	Arcing PIS:	<i>∆</i> ₹	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	l abnormal operating conditions	Р
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	Р
6.3.1 (b)	Combustible materials outside fire enclosure		N/A
6.4	Safeguards against fire under single fault conditions		Р
6.4.1	Safeguard Method	Method of -eontrol 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		N/A
6.4.3.1	General	(V) P	N/A
6.4.3.2	Supplementary Safeguards		N/A
	Special conditions if conductors on printed boards are opened or peeled	4 14 5	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	P
6.4.6	Control of fire spread in PS3 circuit	XV	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 7	Р
6.4.8	Fire enclosures and fire barriers	, QT	Р
6.4.8.1	Fire enclosure and fire barrier material properties	(5	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)		N/A
4	Needle Flame test	> <	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm):		N/A
	Flammability tests for the bottom of a fire enclosure:	300	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):	<i>d</i> ₹	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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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	# £	N/A		
6.6	Safeguards against fire due to connection to additional equipment	1 1	P		
	External port limited to PS2 or complies with Clause Q.1	Ø 300 T	Р		

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		Р
7.2	Reduction of exposure to hazardous substances No hazardo accessible.	No hazardous substance is accessible.	N/A
7.3	Ozone exposure		N/A
7.4	Use of personal safeguards (PPE)	A 2 S	N/A
٨_	Personal safeguards and instructions:	2	
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	2	Р
8.1	General		Р
8.2	Mechanical energy source classifications		Р
8.3	Safeguards against mechanical energy sources		Р
8.4	Safeguards against parts with sharp edges and corners	3100	P
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	× 400	N/A
8.5.2	Instructional Safeguard:	4	_
8.5.4	Special categories of equipment comprising moving parts	, dt - 2°°°	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	# 4	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	<i>∆</i>	N/A
8.5.4.2.2	Instructional safeguards against moving parts	4	N/A
	Instructional Safeguard:		_
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)	* 3	N/A
8.5.5	High Pressure Lamps	* 3	N/A
8.5.5.1	Energy Source Classification	<u> </u>	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
4	Instructional Safeguard	4	_
8.6.2	Static stability		N/A
8.6.2.2	Static stability test	, 4, ,	N/A
30	Applied Force	*	,
8.6.2.3	Downward Force Test	* * *	N/A
8.6.3	Relocation stability test		N/A
	Unit configuration during 10° tilt		_ <
8.6.4	Glass slide test	()	N/A
8.6.5	Horizontal force test (Applied Force)		N/A
大	Position of feet or movable parts	4 4	_ <
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	4 Y	N/A
8.8	Handles strength	* 3	N/A
8.8.1	Classification	30	N/A
8.8.2	Applied Force	L	N/A
8.9	Wheels or casters attachment requirements		N/A
8.9.1	Classification		N/A
8.9.2	Applied force	7	+
8.10	Carts, stands and similar carriers	*	N/A
8.10.1	General	4 30	N/A
8.10.2	Marking and instructions	200	N/A
	Instructional Safeguard		Ø − .
8.10.3	Cart, stand or carrier loading test and compliance	\(\frac{1}{2}\)	N/A
	Applied force	* 5	_
8.10.4	Cart, stand or carrier impact test	3	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)	* 3	N/A	
8.11	Mounting means for rack mounted equipment	4 5	N/A	
8.11.1	General	<u></u>	N/A	
8.11.2	Product Classification	, ,	N/A	
8.11.3	Mechanical strength test, variable N	* \(\int \)	N/A	
8.11.4	Mechanical strength test 250N, including end stops	L. 4.	N/A	
8.12	Telescoping or rod antennas		N/A	
	Button/Ball diameter (mm)		·	

9	THERMAL BURN INJURY	<i>ب</i> ل	Р
9.2	Thermal energy source classifications	TS1: accessible parts	P
9.3	Safeguard against thermal energy sources	40. 4	N/A
9.4	Requirements for safeguards		N/A
9.4.1	Equipment safeguard		N/A
9.4.2	Instructional safeguard		N/A

10	RADIATION		Р
10.2	Radiation energy source classification	RS1	Р
10.2.1	General classification	* *	Р
10.3	Protection against laser radiation	No laser.	N/A
	Laser radiation that exists equipment:	* S	_
	Normal, abnormal, single-fault	30	N/A
	Instructional safeguard	F	4
4.	Tool		4
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	1 1	N/A
10.4.1.b)	RS3 accessible to a skilled person	<i>₹</i> 0 ₹	N/A
	Personal safeguard (PPE) instructional safeguard	-	#- <u>,</u>
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
	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards	7	N/A
4	Instructional safeguard for skilled person	<u></u>	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation		
<u></u>	Abnormal and single-fault condition	-	N/A
35	Maximum radiation (pA/kg)		N/A
10.6	Protection against acoustic energy sources	A	Р
10.6.1	General	3' 2'	Р
10.6.2	Classification	RS2	Р
	Acoustic output, dB(A)	2	N/A
* 4	Output voltage, unweightedr.m.s.	Maximum volume: Right:110mV;Left: 103mV Warning: Right: 21mV; Left: 20mV	Р
10.6.4	Protection of persons	70	P
- Arith	Instructional safeguards	1. Symbol ; 2high sound pressure" or equivalent wording; 3hearing damage risk" or equivalent wording; 4do not listen at high volume levels for long periods" or equivalent wording.	
<i>*</i>	Equipment safeguard prevent ordinary person to RS2	Automatically return to RS1 level when the power is switched off.	<u>*-</u>
4	Means to actively inform user of increase sound pressure	Warning: hearing damage risk or equivalent wording	_5
ــــــــــــــــــــــــــــــــــــــ	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 :	4	
10.6.5.2	Corded listening devices with digital input	- L	N/A
	Maximum dB(A) :	A 19 -	
10.6.5.3	Cordless listening device	3 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.	Р
B.2.1	General requirements:	(See summary of testing and appended table)	Р
4.00	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	.79	Р
B.3.1	General requirements	See below	Р
B.3.2	Covering of ventilation openings	A	N/A
B.3.3	D.C. mains polarity test	2 7	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.	A S	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	Р
B.4	Simulated single fault conditions	<i>₩</i>	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:	7 30 3	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)	Р



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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	A 100 5	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	

C	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	A 30 30	N/A
C.1.2	Requirements	2	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test	* * *	N/A
C.2.1	Test apparatus	- K K	N/A
C.2.2	Mounting of test samples	<u></u>	N/A
C.2.3	Carbon-arc light-exposure apparatus	3	N/A
C.2.4	Xenon-arc light exposure apparatus		N/A

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

E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS	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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Clause	Requirement + Test	Result - Remark	Verdict

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements	<i>₫</i> ₹	Р
	Instructions – Language	Instructions in English arereviewed.	4
F.2	Letter symbols and graphical symbols	* \(\psi\)	Р
F.2.1	Letter symbols according to IEC60027-1	, , ,	Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	* *	Р
F.3	Equipment markings	¥ 34, 4.	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	مار	N/A
F.3.3.1	Equipment with direct connection to mains	* * * * * * * * * * * * * * * * * * *	N/A
F.3.3.2	Equipment without direct connection to mains	\(\lambda_{\chi}\) \(\frac{\chi}{2}\) \(\frac{\chi}{2}\)	N/A
F.3.3.3	Nature of supply voltage		_
F.3.3.4	Rated voltage	3	_
F.3.3.4	Rated frequency	.∟ .⊘	
F.3.3.6	Rated current or rated power		
F.3.3.7	Equipment with multiple supply connections	- L	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	X <	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	C	N/A
F.3.6.1.3	Protective bonding conductor terminals	* * 5	N/A
F.3.6.2	Class II equipment (IEC60417-5172)	X	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	
3.8	External power supply output marking		Р
3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
=.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.	Р
.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
- 3	c) Equipment intended to be fastened in place	\$ 7	N/A
	d) Equipment intended for use only in restricted access area	300	N/A
43.00	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		N/A
	f) Protective earthing employed as safeguard		N/A
	g) Protective earthing conductor current exceeding ES 2 limits	× -	N/A
	h) Symbols used on equipment		Р
4	i) Permanently connected equipment not provided with all-pole mains switch	300	N/A
4	j) Replaceable components or modules providing safeguard function		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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Clause	Requirement + Test	Result - Remark Verd	dict	

G	COMPONENTS	A 8 8 1	Р
G.1	Switches	<u> </u>	N/A
G.1.1	General requirements	No switches.	N/A
G.1.2	Ratings, endurance, spacing, maximum load	1	N/A
G.2	Relays	× ×	N/A
G.2.1	General requirements	No relays.	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power	F 27 7	N/A
G.2.4	Mains relay, modified as stated in G.2	. (N/A
G.3	Protection Devices	. 29 2	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)	2	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	A A 30	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	₹. ₹	N/A
G.3.2	Thermal links	3	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	X 2 1	N/A
> <	Aging hours (H):	- L X	2
	Single Fault Condition:		_
	Test Voltage (V) and Insulation Resistance (Ω). :		
G.3.3	PTC Thermistors	<i>(</i> *)	N/A
G.3.4	Overcurrent protection devices	<i>₽</i> ₹	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		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°		N/A	
G.5.1.2 b)	Construction subject to routine testing	(V) 7	N/A	
G.5.2	Endurance test on wound components	<i>*</i>	N/A	
G.5.2.1	General test requirements	L # 2	N/A	
G.5.2.2	Heat run test	Ø <u>S</u>	N/A	
	Time (s)			
	Temperature (°C):	A A	_	
G.5.2.3	Wound Components supplied by mains	F 72, 5	N/A	
G.5.3	Transformers		N/A	
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1):	A 30 0	N/A	
	Position:	30	_	
	Method of protection:	1	-<	
G.5.3.2	Insulation		N/A	
	Protection from displacement of windings:	10 10 4 4	_	
G.5.3.3	Overload test:	4	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 3 .	N/A	
G.5.4	Motors		Р	
G.5.4.1	General requirements		Р	
	Position:	~ ~	- ,t-	
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	F 56	N/A	
	Test duration (days):			
G.5.4.5	Running overload test for d.c. motors in secondary circuits	A 30 3	N/A	
G.5.4.5.2	Tested in the unit		N/A	
	Electric strength test (V)		<u> </u>	
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h):	* **	N/A	
2	Electric strength test (V)	100	_	
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	<i>47 49</i> = =	Р	



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Clause	Requirement + Test	Result - Remark	Verdict
	Maximum Temperature:	(See appended table B.4)	N/A
*	Electric strength test (V)	* 3,	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 2 2	N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors	* *	N/A
.1.	Operating voltage	F 74, 4,	_
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation	V. 2. 7.	N/A
G.7	Mains supply cords	4	N/A
G.7.1	General requirements	Not directly connected to mains	N/A
	Туре	* * *	_
	Rated current (A):	4, 7, 4	_
	Cross-sectional area (mm²), (AWG):		_3
G.7.2	Compliance and test method	30	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	A 30	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	<u> </u>	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	A- 3.00	_
G.7.3.2.4	Strain relief comprised of polymeric material	T (4)	N/A
G.7.4	Cord Entry:		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g)	3	<u>. – – </u>
	Diameter (m)	.L 3	· — .
	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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.8	Varistors	10 10	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	300	N/A
G.8.3.2	Varistor overload test:		N/A
G.8.3.3	Temporary overvoltage	¥ % 4	N/A
G.9	Integrated Circuit (IC) Current Limiters	(1) A	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):	. 4	F - K
G.9.1 e)	Manufacturers' defined drift:	10, 4, 70	_5
G.9.2	Test Program 1	5	N/A
G.9.3	Test Program 2	ــــــــــــــــــــــــــــــــــــــ	N/A
G.9.4	Test Program 3	* * *	N/A
G.10	Resistors	, 14, 74, 4	N/A
G.10.1	General requirements		N/A
G.10.2	Resistor test	<u> </u>	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	A SA	N/A
G.10.3.1	General requirements	* 30	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	7 5	N/A
G.11.3	Rules for selecting capacitors	+	N/A
G.12	Optocouplers	,L (V)	N/A
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results):		N/A
	Type test voltage Vini		-4
	Routine test voltage, Vini,b:		_
G.13	Printed boards	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	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	A 40	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	5 5 5	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	16 4 F.	N/A
G.13.6.2c)	Abrasion resistance test	4	N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements:		N/A
G.15	Liquid filled components	74, 5, 4	N/A
G.15.1	General requirements	Ø	N/A
G.15.2	Requirements	4	N/A
G.15.3	Compliance and test methods	ملا <u>بال</u> ا	N/A
G.15.3.1	Hydrostatic pressure test	40 E Y	N/A
G.15.3.2	Creep resistance test	- A	N/A
G.15.3.3	Tubing and fittings compatibility test		N/A
G.15.3.4	Vibration test	L	N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test	<i>A S</i>	N/A
G.15.4	Compliance	7 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	A	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:	* 3	_	
D3)	Resistance	A 35	_	

Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	A	N/A
H.2	Method A	Z. Z.	N/A
H.3	Method B		N/A
H.3.1	Ringing signal	<u> </u>	N/A
H.3.1.1	Frequency (Hz)	5 5 6	
H.3.1.2	Voltage (V)		
H.3.1.3	Cadence; time (s) and voltage (V)	L 89 A	
H.3.1.4	Single fault current (mA):	X	_
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	70, 70, 6	N/A
H.3.2.3	Monitoring voltage (V)		

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

K	SAFETY INTERLOCKS	.07	N/A
K.1	General requirements	4,	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	4	N/A
K.5	Fail-safe	*	N/A
	Compliance	,L (V)	N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method:	A 3	N/A
K.7	Interlock circuit isolation	* 3,	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):	A. C.	N/A
K.7.2	Overload test, Current (A)	4 4 5	N/A
K.7.3	Endurance test	X	N/A



IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
K.7.4	Electric strength test	4 5	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	<i>A</i> - <i>A</i> - 1	N/A
L.3	Parts that remain energized	SF 37 F	N/A
L.4	Single phase equipment	5	N/A
L.5	Three-phase equipment	(27 4	N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices	Ø >	N/A
L.8	Multiple power sources	A-	N/A

М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р
M.1	General requirements		P
M.2	Safety of batteries and their cells	30	Р
M.2.1	Requirements	4 4	Р
M.2.2	Compliance and test method (identify method):	Approved battery used	Р
M.3	Protection circuits		Р
M.3.1	Requirements	<i>10</i> =	Р
M.3.2	Tests	. 7	Р
-	- Overcharging of a rechargeable battery	·	Р
	- Unintentional charging of a non-rechargeable battery		N/A
太	- Reverse charging of a rechargeable battery	7 4	N/A
	- Excessive discharging rate for any battery	<u> </u>	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	<i>J</i>	Р
M.4.1	General	\$ Z	Р
M.4.2	Charging safeguards	3	Р
M.4.2.1	Charging operating limits		Р
M.4.2.2a)	Charging voltage, current and temperature:		



	IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
M.4.2.2 b)	Single faults in charging circuitry:	* 3	_	
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	4	Р	
M.4.4.2	Preparation	<i>A A C C C C C C C C C C</i>	Р	
M.4.4.3	Drop and charge/discharge function tests		Р	
	Drop	,L &F 8	Р	
4	Charge		Р	
	Discharge		Р	
M.4.4.4	Charge-discharge cycle test	× .	Р	
M.4.4.5	Result of charge-discharge cycle test	A 3° 8°	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	A)	P	
M.6.1.1	General requirements	, 7	Р	
M.6.1.2	Test method to simulate an internal fault	AL .80	Р	
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A	
M.6.2	Leakage current (mA)	<i>2</i> 0 ₹	N/A	
M.7	Risk of explosion from lead acid and NiCd batteries	F 7	N/A	
M.7.1	Ventilation preventing explosive gas concentration	J- 50	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	2	N/A	
M.8.2.1	General requirements		N/A	
M.8.2.2	Estimation of hypothetical volume <i>Vz</i> (m ³ /s):	, , , , , , , , , , , , , , , , , , ,		
M.8.2.3	Correction factors:		_	
M.8.2.4	Calculation of distance d (mm):	₹.	_	
M.9	Preventing electrolyte spillage	L L Z	N/A	
M.9.1	Protection from electrolyte spillage		N/A	



	IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
M.9.2	Tray for preventing electrolyte spillage	* 3	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.	P	

N	ELECTROCHEMICAL POTENTIALS		N/A
	Metal(s) used	1	<u> </u>

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

P	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)	10 10 A	
P.2.3	Safeguard against the consequences of entry of foreign object	7	N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment	A 8	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):	L 3.00	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	7 2	N/A
P.3.3	Spillage safeguards	ملہ	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
7	Tc (°C)		_
	Tr (°C)	<i>X</i> =	
	Ta (°C)		
P.4.2 b)	Abrasion testing:	* * 5	N/A
P.4.2 c)	Mechanical strength testing:	27 27	N/A



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Clause	Requirement + Test	Result - Remark Verd	dict

Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	
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)	<u> </u>
	Current limiting method:	_

R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements	100 100 €	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)):	, 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	400	N/A
- 3	Samples, material:		3_
	Wall thickness (mm)	d 2	_
	Conditioning (°C):	- 3	_
	Test flame according to IEC 60695-11-5 with conditions as set out	Æ.	N/A
	- Material not consumed completely		N/A
.1	- Material extinguishes within 30s	3,	N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	# 310 T	N/A
.1	Samples, material	3	_
	Wall thickness (mm):		_
	Conditioning (°C)		



Swing test

Impact Test (glass)

General requirements

Impact test and compliance

Stress relief test:

Impact energy (J)....:

T.7

T.8

T.9

T.9.1

T.9.2

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	IEC/EN 62368-	1	
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	Ø <	N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material	A 19 -	_
	Wall thickness (mm)		<u> </u>
	Cheesecloth did not ignite	£ & .	N/A
S.4	Flammability classification of materials	L X X	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:	<i>10</i> ₹ <i>2</i>	_
*	Wall thickness (mm):	4	_
	Conditioning (test condition), (°C):	-لد	
	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
T	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements	W 7	Р
T.2	Steady force test, 10 N	7	N/A
T.3	Steady force test, 30 N	F	N/A
T.4	Steady force test, 100 N:	A- «**	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

(See appended table T.7)

(See appended table T.8)

Not applicable.

N/A

Ρ

Ρ

N/A

N/A

N/A



IEC/EN 62368-1					
Clause	Requirement + Test Result - Remark				
<u> </u>	Height (m)	* =	_		
T.10	Glass fragmentation test	No glass.	N/A		
T.11	Test for telescoping or rod antennas		N/A		
	Torque value (Nm):		8		

U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION			
U.1	General requirements	No CRTs.	N/A	
U.2	Compliance and test method for non-intrinsically protected CRTs	F 72, 5	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		



	140 E.	IEC/EN 62368-1			*
Clause	Requirement + Test	, 3	Result - Remark	*	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

within the EU: see Directive 2011/65/EU.

Attachment Originator Nemko AS

Master Attachment Date 2017-09-22

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	CENELEC C	OMMON MOD	DIFICATIO	NS (EN)				Р
	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2014 are prefixed —Z".				e in	Р		
CONTENTS	Add the following annexes: Annex ZA (normative) Annex ZB (normative) Annex ZB (normative) Annex ZC (informative) Annex ZD (informative)						P	
+ +	Delete all the -eountry" notes in the reference document (IEC 62368-1:2014) according to the following list:						ng	Р
	0.2.1	Note	1	Note 3	4.1.15	Note		
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c		
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note		
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3		
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4		
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3		
	For special r	ational condition	ons, see Ar	nnex ZB.	*	2		Р
		wing note: ne use of certai I electronic equ			400	ملہ خ		Р



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



IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
10.5.1	Add the following after the first paragraph:	* 3	N/A	
	For RS 1 compliance is checked by measurement under the following conditions:		*	
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or presets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.			
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	- 41, 4,		
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.			
	Moreover, the measurement shall be made under fault conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.		Ļ č	
	For RS1, the dose-rate shall not exceed 1 μSv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	7 4 A	† 4	
10.6.1	Add the following paragraph to the end of the subclause:		N/A	
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.		4	
10.Z1	Add the following new subclause after 10.6.5.	37	N/A	
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	- ` <u>}</u>		
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	F Filip File		
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body-mounted devices, attention is drawn to EN 50360 and EN 50566			
G.7.1	Add the following note:	A 20	N/A	
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		¢+	



	IEC/EN 62368-	Report No. STS210908002001E		
Clause	Requirement + Test	Result - Remark	Verdict	
Bibliography	Add the following standards:	4 ZV	Р	
٠	Add the following notes for the standards indicated	d:		
	IEC 60130-9 NOTE Harmonized as EN 601	30-9.	*	
	IEC 60269-2 NOTE Harmonized as HD 602	269-2.		
	IEC 60309-1 NOTE Harmonized as EN 603	309-1.		
	IEC 60364 NOTE some parts harmonized	I in HD 384/HD 60364 series.		
	IEC 60601-2-4 NOTE Harmonized as EN 606	01-2-4.		
	IEC 60664-5 NOTE Harmonized as EN 6066	64-5.		
	IEC 61032:1997 NOTE Harmonized as EN 6103	32:1998 (not modified).		
	IEC 61508-1 NOTE Harmonized as EN 6150	08-1.		
	IEC 61558-2-1 NOTE Harmonized as EN 615	58-2-1.		
	IEC 61558-2-4 NOTE Harmonized as EN 615	58-2-4.		
	IEC 61558-2-6 NOTE Harmonized as EN 615	58-2-6.		
	IEC 61643-1 NOTE Harmonized as EN 6164	43-1.		
	IEC 61643-21 NOTE Harmonized as EN 6164	43-21.		
	IEC 61643-311 NOTE Harmonized as EN 6164	43-311.		
	IEC 61643-321 NOTE Harmonized as EN 6164	43-321.	- 5	
	IEC 61643-331 NOTE Harmonized as EN 61643-331.			
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)			
4.1.15	Denmark, Finland, Norway and Sweden		N/A	
	To the end of the subclause the following is added			
	Class I pluggable equipment type A intended for	r		
	connection to other equipment or a network shall,			
	if safety relies on connection to reliable earthing or if surge suppressors are connected between the			
	network terminals and accessible parts, have a			
	marking stating that the equipment shall be			
	connected to an earthed mains socket-outlet.	7	*	
	The marking text in the applicable countries shall be as follows:		4	
	In Denmark:	* 3		
	-Apparatetsstikpropskaltilsluttesenstikkontakt med jordsom giver forbindelsetilstikproppensjord."	+ = = 1	ے۔	
	In Finland : "Laite on liitettäväsuojakoskettimillavarustettuunpistorasiaan			
	In Norway : -Apparatetmåtilkoplesjordetstikkontakt	,,		
	In Sweden : Apparatenskallanslutas till jordatuttag"	- 4	<u></u>	
1.7.3	United Kingdom	A 4	N/A	
	To the end of the subclause the following is added			
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex		*	



	IEC/EN 62368-1	<i>W</i> <	
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 exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		N/A
5.4.11.1 and	Finland and Sweden	¥ & 5	N/A
Annex G	To the end of the subclause the following is added:		
	For separation of the telecommunication network from earth the following is applicable:	. *	
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either		
	• two layers of thin sheet material, each of which shall pass the electric strength test below, or		- <
*	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.		
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		£'.
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and		4
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.	£	
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:		
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;		et si
	• the additional testing shall be performed on all the test specimens as described in EN 60384-14;	10th A.C.	
	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 62368-1	20 7	^
lause	Requirement + Test	Result - Remark	Verdict
.5.2.1	Norway	* 3	N/A
	After the 3rd paragraph the following is added:	A- 350	
	Due to the IT power system used, capacitors are		*
	required to be rated for the applicable line-to-line	· ·	
	voltage (230 V).	40	
.5.6	Finland, Norway and Sweden	<i>*</i>	N/A
	To the end of the subclause the following is added:		X
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable	4	
	equipmenttype A shall comply with G.10.1 and	* * * * *	
.1	the test of G.10.2.	- (** - (**)	
.6.1	Denmark		N/A
	Add to the end of the subclause	× 4	
	Due to many existing installations where the		
	socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets	700 E 5	
	the protection for pluggable equipment type A shall	2	
	be an integral part of the equipment.		
	Justification:		
	In Denmark an existing 13 A socket outlet can be		
	protected by a 20 A fuse.	3' 2'	
.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for pluggable equipment type A , the following is added:	7 2	
	- the protective current rating is taken to be 13	A 40	
	A, this being the largest rating of fuse used in the	**	
	mains plug.		
.6.5.1	To the second paragraph the following is added:		N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a	2	A-
	rated current over 10 A and up to and including 13	_	
	A is:		9
	1,25 mm ² to 1,5 mm ² in cross-sectional area.	* 3	
.7.5	Denmark	FS	N/A
	To the end of the subclause the following is added:		
	The installation instruction shall be affixed to the		
	equipment if the protective conductor current	* Z * ``	
.7.5	To the end of the subclause the following is added: The installation instruction shall be affixed to the		



	IEC/EN 62368-	1 🐼 🗧	
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.1	Norway and Sweden	* 3	N/A
	To the end of the subclause the following is added:	AL 350	
	The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.		
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.		
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:		- 4
	Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-		
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength		3,00
	of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		
	Translation to Norwegian (the Swedish text will also be accepted in Norway):		4
	-Apparatersomerkoplettilbeskyttelsesjord via nettpluggog/eller via annetjordtilkopletutstyr – ogertilkoplet et koaksialbasertkabel-TV nett, kanforårsakebrannfare. For å unngådetteskaldetvedtilkoplingavapparatertilkabel-TV nettinstalleresengalvanisk isolator mellomapparatetogkabel-TV nettet."		
	Translation to Swedish:		
	"Apparatersomärkopplad till skyddsjord via jordatvägguttagoch/eller via annanutrustningochsamtidigtärkopplad till kabel-TV nätkanivissa fall medföra risk för brand. Förattundvikadettaskall vid anslutningavapparaten till kabel-TV nätgalvanisk isolator finnasmellanapparatenochkabel-TV nätet.".		*



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



	IEC/EN 62368-1	- XV	
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		410
	(ISOD), the requirements of clauses 22.2 and 23 also apply.	4	
G.7.1	United Kingdom		N/A
	To the first paragraph the following is added:	- 2, -	
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.		- 4
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		4
G.7.1	Ireland	, 7	N/A
	To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, —13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the		400
	recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	-	
G.7.2	Ireland and United Kingdom	L X	N/A
	To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.		



	IEC/EN 62368-	1 🕢 🔷	
Clause	Requirement + Test	Result - Remark	Verdict
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	* 3	N/A
10.5.2	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type		N/A
	approval (Bauartzulassung) and marking. 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		



		Troportion 0.02.000000200.2						
	IEC/EN 62368-1							
Clause	Requirement + Test	Result - Remark Verdict						

4.1.2	TABLE:	List of critical comp	onents			Р
Object / part	No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Charger	F	Shen Zhen Huajin Electronics Co., Ltd.	HJ-0501000-EU	Input:100-240V~ 50/60Hz 0.2A Output:DC5V, 1A	EN 62368-1: 2014+A11:20 17	Testreport No.:GST202103 22015-1-1
Rechargeab Battery	le Li-ion	Shenzhen Jiajinyuan Technology Co., Ltd.	3210099	3.8Vd.c, 5580mAh, 21.20Wh	IEC 62133-2: 2017	Test ReportNo.:NCT2 1037222XI1-1
Flash LED	4	Everlight Electronics Co., Ltd.	ELCH series	DC350mA, exempt group	IEC 62471:2006	TUV Report No.:10031507 001
LCD screen	Ŧ,	SHENZHEN STRONG PHOTOELECTRIC CO. LTD	SQ0801- B4EI31H- 37R501	8"	EN 62368-1	Tested withappliance
Speaker		Shenzhen Chuangxinqidian Electronic Co., Ltd.	DK034	7Ω, 1.2W max.	EN 62368-1	Tested with appliance
PCB	ø	HUIZHOU CHINA EAGLE ELECTRONIC TECHNOLOGY CO LTD	CA-F121	V-0, 130°C	UL 94	UL E198681
(Alternative)		Interchangeable	Interchangeable	V-0, 130°C	UL 94	UL
Plastic enclo	sure	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 mo	otor	Guangxi WeiYiTong Electronic Technology Co.,Ltd	VICR0830	Rated Voltage: DC 3.0V, 80mA max. Rated Speed 12000± 3000rpm	IEC/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



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<u></u>			62368-1	<u> </u>
Clause	Requirement +	Test	Result - Remark	Verdict
4.8.4, 4.8.5	TABLE: Lithiur	m coin/button cell batterie	es mechanical tests	N/A
(The follow	ing mechanical t	tests are conducted in the	e sequence noted.)	*
4.8.4.2	TABLE: Stress	relief test	4	
P	art	Material	Oven Temperature (°C)	Comments
//	+ 3		AT SY	,
4.8.4.3	TABLE: Battery	replacement test	4	4
Battery part	no	:	A	4
Battery Insta	allation/withdrawa	ı	Battery Installation/Removal Cycle	Comments
	-	太	1	
			2	<i>*</i>
			3	7, 6
			4	
			5	.L 3
			6	
			8	
			9	<u> </u>
			10	
4.8.4.4	TABLE: Drop to	est		_
Impa	ct Area	Drop Distance	Drop No.	Observations
			1 1	
		4	2	
	2	-	3	
4.8.4.5	TABLE: Impact		5 1 10	
Impacts p	per surface	Surface tested	Impact energy (Nm)	Comments
<i></i>			70	<u> </u>
30		4		30
		AL 200	\$ \$\cdot\)	
4.8.4.6	TABLE: Crush	test	* 20, ,	
Test p	position	Surface tested	Crushing Force (N)	Duration force applied (s)
		_	4 5	
	1 0			



		IEC/EN 6	52368-1			
Clause	Requirement	+ Test	Result - Remark	*	Verdict	
4.8.5	TABLE: Lithi	ium coin/button cell batteries	tteries mechanical test result			
Test	position	Surface tested	Force (N)		ation force	
			7	<i>A</i> +	3	
		7 7 6				
Suppleme	ntary information					

5.2	TABLE:	Classification of	of electrical energ	gy sources	<i>*</i>		Р
5.2.2.2 -	 Steady State 	e Voltage and Cu	rrent conditions	<u></u>	7,1	7	
	0	Location (e.g.		300	Parameters	1	
No.	Supply Voltage	circuit designation)	Test conditions	U (Vrms or Vp	k) (Apk or Ai	rms) Hz	ES Class
<i>*</i>	30		Normal		-		
1	5Vd.c	All internal circuits	Abnormal				ES1 (declared)
		Circuits	Single fault –		Ø <u>-</u> Ø	F 3-	(decialed)
علہ	T 1/0 4	4	Normal	Jr - 3	4-		
2	Full charged	ed Battery pack output	Abnormal				ES1 (declared)
battery	σαίραι	Single fault –		<u></u>	<u> </u>	(decialed)	
5.2.2.3 -	- Capacitance	Limits		+ 4			
,	3	Location (e.g.	4 8	Parameters			3
No. Supply voltage circuit designation)		circuit	Test conditions	Capacitance	e, nF	Upk (V)	ES Class
			Normal			<u> - ر - </u>	<u> </u>
\$		/	Abnormal	- "	4		
			Single fault –	\		-	
5.2.2.4	- Single Pulses	S					
. 4	Supply	Location (e.g.		Parameters			
No.	Voltago		Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class
		4	Normal				2 × ×
			Abnormal	- -		J - 3	
			Single fault –		<u> </u>		



	140 A	IEC/EN 62368-1	4
Clause	Requirement + Test	Result - Remark	Verdict

5.2.2.5	- Repetitive F	Pulses					
No. Supply		Location (e.g.	Test conditions	大			
No. Voltage Circuit	designation)	Off time (ms)		Upk (V)	lpk (mA)	ES Class	
		*	Normal		7		
			Abnormal	/-	<u> </u>	–	
			Single fault –	-	7 -		*

Test Conditions:

Normal -

Abnormal -

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

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurement	s				Р
4	Supply voltage (V):		See	e below		-6
	Ambient T _{min} (°C):					_
*	Ambient T _{max} (°C):				<u></u>	
	Tma (°C):	4				_5
Maximum n	neasured temperature T of part/at:		T AL	(°C)	7	Allowed T _{max} (°C)
<u>, L</u>	20	DC5Vcl	harging	Full battery	discharging	
PCB near l	J0502	51.6		50.2		130
PCB near U0500		50.7		49.9		130
PCB near U6		48.2	–	47.1		80
Input near I	РСВ Д	46.5		45.3	<u></u>	Ref.
Enclosure i	nside near PCB	46.4	,	45.5		Ref.
Battery boo	iy	43.9		42.6		
Ambient		40.0		40.0	, ·	
Touch Ten	nperatures (Clause 9)			J 3		
Enclosure of	outside near PCB	31.4		30.2		48
Screen		31.8		31.5	<	48
Button		28.6	- ,	28.3		48
Adapter su	rface	39.9	_			77
Ambient		25.0		25.0	🔎	



			IEC/E	N 62368-1					
Clause	Requirement +	Test			Result - Re	mark	*	Verdict	
	entary information: al enclosure surface	of the equipme	ent (contac	ct time >1 m	ins).		315		
Temperat	ure T of winding:	t ₁ (°0	C) R ₁ ((Ω) t_2 (°C)	$R_2 (\Omega)$	2) T (°	C) Allowed T _{max} (°C)	Insulation class	
	<i>A</i>	- 3	-			<u></u>			
	A 2		-						
Note 1: Ti	entary information: ma should be consi ma is not included i			•		9);			
5.4.1.10.2	TABLE: Vicat s	oftening temp	erature of	f thermopla	stics			N/A	
Penetration	on (mm)			-					
Object/ Part No./Material					Manufacturer/t T softening (°C) rademark				
							,	- 4	
suppleme	ntary information:			•					
	<u> </u>			*		4			
5.4.1.10.3	TABLE: Ball pr	essure test of	thermopla	astics				N/A	
Allowed in	mpression diameter	(mm)	·····	: ≤ 2 mn	n			_	
Object/Pa	rt No./Material	Manufacturer/	trademark	Test	Test temperature (°C) Impression di				
Ł	7.2	-	-		√ ←				
Suppleme N/A	entary information:		4				Til.		
	<u>*</u>			.1		5			
5.4.2.2, 5.4.2.4 ar 5.4.3	TABLE: Minim	um Clearance	s/Creepaç	ge distance				N/A	
	e (cl) and creepage (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	l cl (mm)	Required ³ cr (mm)	cr (mm)	
8							, O 5		
Cummlana	entary information:		L	1					

5.4.2.3	TABLE: Minimum Cle	N/A					
	Overvoltage Category (OV) :						
4	Pollution Degree	:					
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Meas	sured cl (mm)		
	,47		19 E.	·	- (



o. STS2109080020	
emark	Verdict
A 4	
	N/A
, , ,	eakdown ′es / No
	- /
F 300 ,	N/A
Required DTI (mm)	DTI (mm)
. O - Z	
	N/A
Test voltage (V)	Breakdown Yes / No
	
	N/A
ured Voltage ES r 2 seconds)	S Classification
	-
Si	Single fault condition



		1.0001.110. 0.102.100000020012					
	IEC/EN 62368-1						
Clause	Requirement + Test	Result - Remark Verdict					

N/A
istance (Ω)
4

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive particles	rt	N/A
Supply vol	tage:		_
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)
3/15		1	
Æ		2*	
		3	
		4	4
		5	
		6	7 4
		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.



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

6.2.2	TABLE: Electrical power sources (PS) measurements for classification					
Source Description		Measurement Max		Max Power after 5 s*)	Clas	PS sification
A ^{&}		Power (W):		, A		4
	Battery pack output	VA (V):	>-	<i>√ ←</i>		PS2 eclare)
	7	IA (A):	- 4		(4	colarcy

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) N/A									
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{ms})	Arcing PIS? Yes / No						

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	TABLE: De	Р				
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	ry output		/ 			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.



			Report No). 513	5210908002	2001E	
	IE	C/EN 62368	-1				
Clause	Requirement + Test		Result - Re	mark		*	Verdict
8.5.5	TABLE: High Pressure Lamp				+ 3		N/A
Description	AT 2 1		Values	3	Energy So	urce Cl	assification
Lamp type.						_	
Manufactur	er:					_	4
Cat no	:		*		4	_	
Pressure (c	cold) (MPa):	, t				MS_	<u></u>
Pressure (c	pperating) (MPa)				*	MS_	
Operating t	ime (minutes)		1 4			_	,
Explosion r	nethod			,		_	
Max particle	e length escaping enclosure (mm).:				*	MS_	
Max particle	e length beyond 1 m (mm)		_			MS_	- 3
Overall resi	ult:	<u> </u>					
Supplemen	tary information:	410			4	*	4
		•					

B.2.5	TABLE: Inp	ut test				4		Р	
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/statu	ıs	
5.0Vdc	0.986	1.0	4.93				Only charging, discharge batte		,
5.0Vdc	0.982	1.0	4.91	\$ ¹	\$ -	A STATE OF THE STA	Operation while (Max volume, brightness, rungest software) battery.	Max the Burn	

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: Abnormal operating condition tests								
Ambient temperature (°C)									
Power source for EUT: Manufacturer, model/type, output rating .: See below									
Component No.	voltage (mas)							Temp. (°C)	Observatio n



			II	EC/EN 62368	3-1			
Clause	Requirement	t + Test	4		Result - R	emark	*	Verdict
Speaker	S-C	By full battery	30mins			* The Third		Speaker have no voice Unit operated as normal,rec overable,n o damage, no hazards.
Speaker	S-C	5Vdc	30mins	 				Speaker have no voice Unit operated as normal,rec overable,n o damage, no hazards.

Supplementary information:

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column —Abormal/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 t	tests						Р
Ambient temper	ature (°C)				:	23.0-25.	0		_
Power source for	or EUT: Manufac	turer, mode	el/type, c	output ra	ting .:	See cove	er page f	or details	_
Component No.	Fault Condition	Supply voltage, (V)	Test time	Fuse no.	Fuse current, (A)	T- couple	Temp.	Obser	vation
Battery output pin B- ~ P-	Overcharge	5Vdc	7h		**************************************			as normal, I chemicals le	eak, nolten metal expulsion
Battery	Over- discharge	By full battery	7h	-5				as normal, I chemicals le	eak, nolten metal expulsion



			IEC	/EN 623	68-1			
Clause	Requirement + Tes	t		7/2	Res	ult - Rema	ırk	Verdict
Q11 pin1-3	S-C	5Vdc	10min s		-		- C	Unit shut down,recoverable,no damage,no hazards
C222	S-C	5Vdc	10min s		7			Unit shut down,recoverable,no damage,no hazards
C223	S-C	5Vdc	10min s	*_		4		Unit shut down,recoverable,no damage,no hazards
Speaker	S-C	5Vdc	10min s		4	(0)		Unit without voice, no hazard, no damage.
U12pin1-5	Over- discharge	Full battery	7h	· - ·	\$ -	-	-	Similar as normal operation. EUT got the steady state finally, no chemical leaks,no explosion, no flame,no hazards, NT, NC, NB.
C3502	S-C	Full battery	10min s		-			Unit shut down,recoverable,no damage,no hazards
R3500	S-C	Full battery	10min s	7.0				Unit shut down,recoverable,no damage,no hazards
Battery outpu	t S-C	By full battery	30min s		4	10. 10.	о <u>-</u>	No chemical leaks, no explosion of battery causing injury to user, no emission of flame or expulsion of molten metal outside enclosure. No hazard.
Vibration mot	or Locked	3V	7h	<				EUT no ignition of the wrapping cheesecloth.

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	Requireme	ent + Test		3,0	Result	- Remark		*	Verdict
Annex M	TABLE: B	atteries	10			Р			
The tests of	f Annex M a	e applicable	only when ap	propriate b	attery data	is not avai	lable		4
ls it possible	e to install th	e battery in a	reverse pola	rity position	1?	:		4	
	Non	-rechargeable	batteries		R	echargeab	le batteries		4
	Dis	scharging	Un- intentional	Cha	rging	Disch	arging		ersed arging
	Meas		charging	Meas.	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf Specs
Max. currer during norn condition		-43		1341mA	27900m A	1743mA	4464mA		
Max. currer during fault condition			-7,0	1982mA	2790mA	2056mA	4464mA		-3
*							1		
Test results	S:	.1		-				×	Verdict
- Chemical	leaks		4			*	-		NO
- Explosion	of the batter	у		<u> </u>					NO
- Emission	of flame or e	xpulsion of m	olten metal						NO
- Electric st	rength tests	of equipment	after comple	tion of tests	;	4	(
Supplemen	tary informa	tion:							
7				3					
Annex M.4	TABLE: A batteries	dditional saf	eguards for	equipment	containin	g seconda	ry lithium		Р
	ery/Cell	Test c	onditions	ò= 3	Meas	urements	.4	Obs	ervation
	NO.			U		I (A)	Temp (C)		
4	1	Normal		4.35	1	.341	43.9	No da	maged,

-	Battery/Cell Test con		conditions	Measurements Measurements			Observation
No.				U I (A)		Temp (C)	
1	3	Normal		4.35	1.341	43.9	No damaged, no hazard.
2		Abnormal	(after drop test)	4.35	1.341	44.5	No damaged, no hazard.
3		Single fau	t –SC/OC	4.35	1.982	47.6	No damaged, no hazard.
Supplementary In	formatio	on: SC = s	hort circuit.				
Battery identification	Т	rging at lowest (°C)	Observat	ion	Charging at T _{highest} (°C)	Obs	servation



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

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
Li-ion battery	0	When the temperature of the battery body reaches 0°C ,charge current: 1.341A	60	When the temperature of the battery body reaches 58.5°C, 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: Measu	ured UOC (V) with all load	d circuits discor	nected:		<u> </u>	A- 3	
Output	Components	U _{oc} (V)	I _{sc} (A)		S (VA)		
Circuit			Meas.	Limit	Meas.	Limit	
	~						
Supplement N/A	ary Information:	4					

BLE: Steady force to	est			Р	
n Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation	
e Metal	Jet - 3	100N	5	No damaged, no hazard	
sure Metal		100N	5	No damaged, no hazard	
de of enclosure Metal		100N	5	No damaged, no hazard	
)	Material Metal Sure Metal	Metal Sure Metal	on Material Thickness Force (MM) Metal 100N Sure Metal 100N	Material Thickness Force (N) Test Duration (sec) Metal 100N 5 Sure Metal 100N 5	

T.6, T.9	ТАВ	LE: Impact tests	<u> </u>		N/A
Part/Loca	ition	Material	Material Thickness Vertical Observation distance (mm)		Observation
			*		·
4					
Supplemen	tary inf	ormation:			



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

T.7	TABLE	E: Drop tests				Р
Part/L	ocation	Material	Thickness (mm)	Drop Height (mm)	Observation	<u></u>
Top enclo	osure	Metal		1000	No damage,no hazard	
Side encl	osure	Metal	-	1000	No damage,no hazard	
bottom er	nclosure	Metal		1000	No damage,no hazard	

T.8 TAB	LE: Stress relief to	est	4		↓	N/A
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	ration
			200			
Supplementary in	formation:	4		d 10	+ 300	



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Fig.1



Fig.2





Fig.3

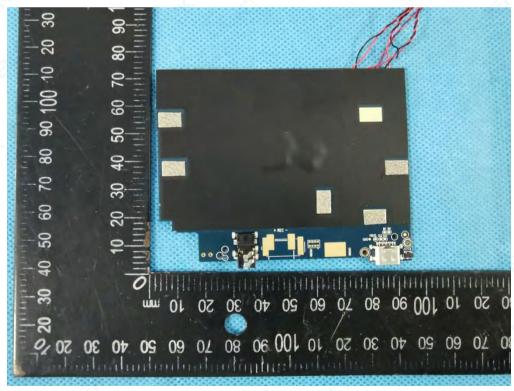


Fig.4



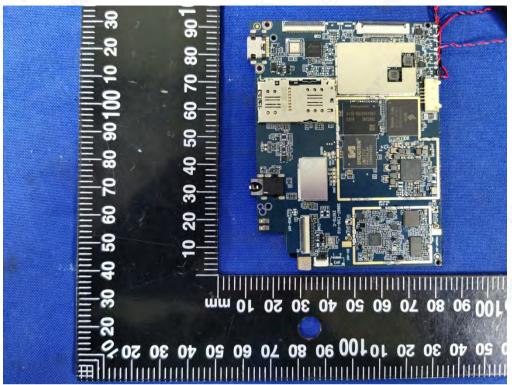


Fig.5



Fig.6



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Fig.7 **END OF REPORT*****