TEST REPORT

Report No.:	STS221107001001E
Product:	Tablet PC
Model No.:	Tab 11 SE
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, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China
Tel:	400-800-6106,0755-2320 0050 / 2320 0090

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CE

Report No. STS221107001001E

TEST REPORT IEC/EN62368-1

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

Date of issue 2022-12-02 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	Report Number:	STS221107001001E
Date of issue : 2022-12-02 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 HONG KONG CHINA Test specification: : IEC 62368-1:2014 (Second Edition) Standard : IEC 62368-1:2014 (Second Edition) X 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 Copyright © 2014 Worldwide System for Conformity Testing and Certification of Electrotechnical Equipment and Components (IECEE), Geneva, Switzerland. All rights reserved. This publicition may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright or and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item Description Tablet PC	Tested by (+ signature):	Helen Lin Acbulin
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 HONG KONG CHINA Test specification: : : IEC 62368-1:2014 (Second Edition) Standard : : IEC 62368-1:2014 (Second Edition) Standard : : IEC 62368-1:2014 (Second Edition) Standard : : IEC 62368-1:2014 (Second Edition) Standard test method : N/A Test specification: : IEC 62368_1B Test Report Form No. : IEC 62368_1B Test Report Form(s) Originator : UL(US) Master TRF : : 2014-03 Copyright © 2014 Worldwide system for ron-commercial purposes as long as the IECCEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced in whole or in part for non-commercial pur	Approved by (+ signature)	Henson Dong Henson Dung
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WANCHAI HONG KONG CHINA Test specification: Standard IEC 62368-1:2014 (Second Edition) Image: EN 62368-1:2014+A11:2017 Image: EN 62368-1:2014+A11:2017 Test procedure CE Scheme Non-standard test method N/A Test Report Form No. IEC 62368_1B Test Report Form(s) Originator. UL(US) Master TRF 2014-03 Copyright © 2014 Worldwide System for Conformity Testing and Certification of Electrotechnical Equipment and Components (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item Description Description Tablet PC 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 11 SE Ratings Dc5.0V/3.0A, 7.0V/2.0A, 9.0V/2.0A, 12.0V/1.5A	Applicant's name:	DOKE COMMUNICATION (HK) LIMITED
Standard	Address:	
Image: Constraint of the reproduced material due to its placement and context. Test item Description Test item Description Tablet PC Trade Mark Manufacturer Shenzhen DOKE Electronic Co.,Ltd Address Manufacturer Tablet PC Trade Mark Blackview Manufacturer Shenzhen DOKE Electronic Co.,Ltd Address Model/Type reference Tablet SE Ratings Dc5.0V/3.0A, 7.0V/2.0A, 9.0V/2.0A, 12.0V/1.5A	Test specification:	
Non-standard test method N/A Test Report Form No. IEC62368_1B Test Report Form(s) Originator: UL(US) Master TRF. 2014-03 Copyright © 2014 Worldwide System for Conformity Testing and Certification of Electrotechnical Equipment and Components (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Test item Description Description Tablet PC 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 11 SE Ratings DC5.0V/3.0A, 7.0V/2.0A, 9.0V/2.0A, 12.0V/1.5A	Standard:	
Test Report Form No	Test procedure:	CE Scheme
Test Report Form(s) Originator: UL(US) Master TRF	Non-standard test method:	N/A
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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 11 SE Ratings DC5.0V/3.0A, 7.0V/2.0A, 9.0V/2.0A, 12.0V/1.5A	Test item	
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 11 SE Ratings DC5.0V/3.0A, 7.0V/2.0A, 9.0V/2.0A, 12.0V/1.5A	Description	Tablet PC
Address 801, Building 3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China Model/Type reference Tab 11 SE Ratings DC5.0V/3.0A, 7.0V/2.0A, 9.0V/2.0A, 12.0V/1.5A	Trade Mark	Blackview
Guangming District, Shenzhen, China Model/Type reference	Manufacturer	Shenzhen DOKE Electronic Co.,Ltd
Ratings DC5.0V/3.0A, 7.0V/2.0A, 9.0V/2.0A, 12.0V/1.5A	Address:	
	Model/Type reference	Tab 11 SE
	Ratings	

TEST ITEM PARTICULARS:	
Classification of use by	Ordinary person
	Skilled person
	Children likely to be present
Supply Connection	AC Mains DC Mains
	External Circuit - not Mains connected
Supply % Tolerance	- <u>C</u> +10%/-10%
Supply % Tolerance	+20%/-15%
	□+ <u>%</u> /- <u>%</u>
Supply Connection – Type:	☐ pluggable equipment_type A -
t st	non-detachable supply cord
the states in	appliance coupler
	direct plug-in
	mating connector
4	☐ pluggable equipment type B - ☐ non-detachable supply cord
at st	appliance coupler
	permanent connection
	☐ mating connector ⊠ other: <u>DC connector</u>
Considered current rating of protective device as part	N/A (Not directly connected to mains)
of building or equipment installation:	Installation location:building;equipment
Equipment mobility	│ movable
	rack-mounting wall-mounted
Over voltage category (OVC)	
	OVC IV Sother:(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:	
Power Systems:	
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. 0.505kg
POSSIBLE TEST CASE VERDICTS:	
- test case does not apply to the test object:	N/A

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- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	A ST
Date of receipt of test item:	2022-11-09
Date (s) of performance of tests:	2022-11-18 to 2022-11-26

GENERAL REMARKS:

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

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

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

Name and address of factory (ies): Same as manufacturer

GENERAL PRODUCT INFORMATION:

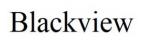
Product Description –

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

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

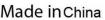
Copy of marking plate:

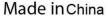
The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective Certification Bodies that own these marks.





Model: Tab 11 SE





EI-1: XXXXXXXXXXXXXXXXXXXX



801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China

Importer:XXX Add:XXX

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Report No. STS221107001001E

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 uc input	EOI
Source of electrical energy	Corresponding classification (ES)
All internal circuits	ES1 🔶 🤝
Micro USB	ES1 - C
Charger output	ES1
Battery output	ES1
Electrically-caused fire (Clause 6): (Note: List sub-assembly or circuit designation and c Example: Battery pack (maximum 85 watts):	orresponding energy source classification) PS2
Source of power or PIS	Corresponding classification (PS)
Internal circuits	PS2(Resistive PIS)
Battery pack/cell output	PS2(Resistive PIS)
Charger output	PS1
Injury caused by hazardous substances (Clause (Note: Specify hazardous chemicals, whether product part of the component evaluation.) Example: Liquid in filled component	7) ces ozone or other chemical construction not addressed as 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, e Example: Wall mount unit	etc. & corresponding MS classification based on Table 35.) MS2
Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and corners of accessible parts	MS1

Product mass

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

MS1

Radiation (Clause 10)

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

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Type of radiation	Corresponding classification (RS)		
LED	RS1	×.	1
Acoustic	RS2		
	ENERGY SOURCE DIAGRAM		
Indicate which energy sources are	included in the energy source diagram. Insert dia	gram below	

Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source		Safeguards	;
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplement ary	Reinforced(Er closure)
Ordinary person, Skilled person	ES1: Internal circuits ES1: Micro USB port	N/A	N/A	N/A
6.1	Electrically-caused fire		1	
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: Speaker circuit	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

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			N/A
Mechanically-caused injury			
Energy Source	Safeguards		
(MS3:High Pressure Lamp)	Basic	Supplement ary	Reinforced (Enclosure)
MS1: Sharp edges and corners of accessible parts	N/A	N/A	N/A
MS1: Product mass	– N/A 🔇	N/A	N/A
Thermal Burn			
Energy Source		Safeguards	
(TS2)	Basic	Supplement ary	Reinforced
TS1: Accessible parts	N/A	N/A	N/A
Radiation			
Energy Source (Output from audio port)	Safeguards		
	Basic	Supplement ary	Reinforced
RS1: LED	N/A	N/A	N/A
RS2: Acoustic	Warning: "Listening at high volume for long periods may damage your hearing" will appear when the sound exceeds	St N/A ←	N/A
	Energy Source (MS3:High Pressure Lamp) MS1: Sharp edges and corners of accessible parts MS1: Product mass Thermal Burn Energy Source (TS2) TS1: Accessible parts Radiation Energy Source (Output from audio port) RS1: LED	Energy Source (MS3:High Pressure Lamp)BasicMS1: Sharp edges and corners of accessible partsN/AMS1: Product massN/AThermal BurnEnergy Source (TS2)Image: Comparison of the systemTS1: Accessible partsN/ARadiationEnergy Source (Output from audio port)Image: Comparison of the systemRS1: LEDN/ARS2: AcousticWarning: "Listening at high volume for long periods may damage your hearing" will appear when the sound	Energy Source (MS3:High Pressure Lamp)SafeguardsBasicSupplement aryMS1: Sharp edges and corners of accessible partsN/AN/AMS1: Product massN/AN/AMS1: Product massN/AN/AThermal BurnEnergy Source (TS2)SafeguardsEnergy Source (TS2)BasicSupplement aryTS1: Accessible partsN/AN/ARadiationEnergy Source (Output from audio port)SafeguardsEnergy Source (Output from audio port)SafeguardsRS1: LEDN/AN/ARS2: AcousticWarning: "Listening at high volume for long periods may damage your hearing" will appear when the sound exceedsN/A

Supplementary Information:

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

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

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Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and	See appended table 4.1.2	 P
	subassemblies		*
4.1.2	Use of components	(See appended table 4.1.2)	Р
4.1.3	Equipment design and construction	1 At St	Р
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.4 💉	Safeguard robustness		Р
4.4.4.2	Steady force tests	(See Annex T.4)	P
4.4.4.3	Drop tests	(See Annex T.7)	Р
4.4.4.4	Impact tests		N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	No such enclosure and barrier	– N/A
4.4.4.6	Glass Impact tests	Surface area not exceeding 0.1m ²	N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	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	S.	Р
4.6	Fixing of conductors	At T	Р
4.6.1	Fix conductors not to defeat a safeguard		Р
4.6.2	10 N force test applied to		Р
4.7	Equipment for direct insertion into mains socket - outlets	No such apparatus	N/A
4.7.2	Mains plug part complies with the relevant standard	t ×	N/A
4.7.3	Torque (Nm)	A S	N/A
4.8	Products containing coin/button cell batteries	No coin/button cell batteries used	N/A
4.8.2	Instructional safeguard		N/A
4.8.3	Battery Compartment Construction		N/A
4	Means to reduce the possibility of children removing the battery	AND A	
4.8.4	Battery Compartment Mechanical Tests		N/A
4.8.5	Battery Accessibility	\$ Å	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	Р

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	IEC/EN 62368-		
Clause	Requirement + Test	Result - Remark	Verdict
5	ELECTRICALLY-CAUSED INJURY		P
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	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		N/A
5.2.2.4 🔨	Single pulse limits	No single pulse introduced	N/A
5.2.2.5	Limits for repetitive pulses:	No repetitive pulses introduced	N/A
5.2.2.6	Ringing signals:	No ringing signals.	N/A
5.2.2.7	Audio signals:		N/A
5.3	Protection against electrical energy sources	All internal circuits considered ES1	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	At an an	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	~	N/A
5.3.2.2	Contact requirements	t t	N/A
4	a) Test with test probe from Annex V		N/A
	b) Electric strength test potential (V):		N/A
	c) Air gap (mm):	5	N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements	A S	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:		
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	×	N/A
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses	5	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:	Real Provide August 1997	N/A
5.4.1.10.3	Ball pressure		N/A

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Clause	Requirement + Test	<u> </u>	Result - Remark	Verdict
5.4.2	Clearances	*		N/A
5.4.2.2	Determining clearance using peak	working voltage	At Straight	N/A
5.4.2.3	Determining clearance using requivoltage			N/A
	a) a.c. mains transient voltage		L At St	
	b) d.c. mains transient voltage	······	C S	
<u> </u>	c) external circuit transient voltage			
	d) transient voltage determined by		+ Att Att	
5.4.2.4	Determining the adequacy of a cle electric strength test	arance using an		N/A
5.4.2.5	Multiplication factors for clearance voltages			N/A
5.4.3	Creepage distances			N/A
5.4.3.1	General		4	N/A
5.4.3.3	Material Group	:	A A A	
5.4.4	Solid insulation	×		N/A
5.4.4.2	Minimum distance through insulati	on:		N/A
5.4.4.3	Insulation compound forming solid	linsulation	<u> </u>	N/A
5.4.4.4	Solid insulation in semiconductor of	devices		N/A
5.4.4.5	Cemented joints			N/A
5.4.4.6	Thin sheet material	<u> </u>		N/A
5.4.4.6.1	General requirements			N/A
5.4.4.6.2	Separable thin sheet material			N/A
<u> </u>	Number of layers (pcs)			N/A
5.4.4.6.3	Non-separable thin sheet materia			N/A
5.4.4.6.4	Standard test procedure for non-s sheet material	•		N/A
5.4.4.6.5	Mandrel test	<	the second se	N/A
5.4.4.7	Solid insulation in wound compone	ents	A S'	N/A
5.4.4.9	Solid insulation at frequencies >3	0 kHz		N/A
5.4.5	Antenna terminal insulation		No such terminal	N/A
5.4.5.1	General			N/A
5.4.5.2	Voltage surge test			N/A
*	Insulation resistance (MΩ)		× .	
5.4.6	Insulation of internal wire as part supplementary safeguard		the state	N/A

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4	IEC/EN 62368-		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.7	Tests for semiconductor components and for cemented joints	the set of	N/A
5.4.8	Humidity conditioning		N/A
	Relative humidity (%):		
	Temperature (°C):		
6	Duration (h):		
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 3 7	N/A
5.4.10	Protection against transient voltages between external circuit	No connection to external circuits with transient voltage.	N/A
5.4.10.1	Parts and circuits separated from external circuits	* 5 8	N/A
5.4.10.2	Test methods	<u></u>	N/A
5.4.10.2.1	General		N/A <
5.4.10.2.2	Impulse test		N/A
5.4.10.2.3	Steady-state test:		N/A
5.4.11	Insulation between external circuits and earthed circuitry	No connection to external circuits with transient voltage.	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	4 4	N/A
5.4.11.2	Requirements	A S .	N/A
~ ~	Rated operating voltage Uop(V)		_
	Nominal voltage U _{peak} (V):		
	Max increase due to variation U _{sp} :		
	Max increase due to ageing ∆U₅a:		
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$	* 5	
5.5	Components as safeguards	* _	
5.5.1	General		N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector		N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays	N A	N/A
5.5.6	Resistors		N/A
5.5.7	SPD's		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.5.7.1	Use of an SPD connected to reliable earthing		N/A
5.5.7.2	Use of an SPD between mains and protective earth	At an	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	t st	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 (mm ²):		
5.6.4	Requirement for protective bonding conductors	A S S	N/A
5.6.4.1	Protective bonding conductors	5	N/A
	Protective bonding conductor size (mm ²)		
~	Protective current rating (A)		
5.6.4.3	Current limiting and overcurrent protective devices	when the tage	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement		N/A
1	Conductor size (mm ²), nominal thread diameter (mm).	At sta	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	A S	N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A
5.7.2	Measuring devices and networks	· · ·	N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections	4	N/A
4	System of interconnected equipment (separate connections/single connection):	A STATE	
1.	Multiple connections to mains (one connection at a time/simultaneous connections)	4	
5.7.4	Earthed conductive accessible parts:	L L L	N/A
5.7.5	Protective conductor current		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Supply Voltage (V)	* 5	
X	Measured current (mA)	A S	
	Instructional Safeguard		N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	I At Star	N/A
5.7.6.1	Touch current from coaxial cables	1 St 1	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	t at	N/A
5.7.7	Summation of touch currents from external circuits		N/A
- Leve	a) Equipment with earthed external circuits Measured current (mA)	the second se	N/A
4	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	The A. A.	N/A

		4	
6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential in	gnition sources (PIS)	Р
6.2.2	Power source circuit classifications	4 4 A	Р
6.2.2.1	General		Р
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	Р
6.2.2.4	PS1:	(See appended table 6.2.2)	Р
6.2.2.5	PS2:	(See appended table 6.2.2)	Р
6.2.2.6	PS3:	E .	N/A
6.2.3 🗳	Classification of potential ignition sources		P
6.2.3.1	Arcing PIS:		N/A
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	Р
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	Р
6.3.1 (b)	Combustible materials outside fire enclosure		N/A
6.4	Safeguards against fire under single fault conditions		Р
6.4.1	Safeguard Method	Method of "control of fire spread" is used.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	the state of the	N/A
6.4.3.1	General		N/A
6.4.3.2	Supplementary Safeguards	· A	N/A
	Special conditions if conductors on printed boards are opened or peeled	at the the	N/A
6.4.3.3 💉	Single Fault Conditions	. 2	N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits	2 4 1	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	<pre></pre>	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	5 6	Р
6.4.8	Fire enclosures and fire barriers		P
6.4.8.1	Fire enclosure and fire barrier material properties		Р
6.4.8.2.1	Requirements for a fire barrier	Fire enclosure provided	Р
6.4.8.2.2	Requirements for a fire enclosure	V-0 and metal used	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	with far	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)	the second second	N/A
	Flammability tests for the bottom of a fire enclosure	A CONTRACTOR	N/A
6.4. <mark>8</mark> .3.5	Integrity of the fire enclosure, condition met: a), b) or c)	A 4	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	V-0 and metal used	Р
6.5	Internal and external wiring		Р
6.5.1	Requirements		P

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Clause	Requirement + Test	Result - Remark	Verdict
6.5.2	Cross-sectional area (mm ²):	Less than 0.5mm ²	
6.5.3	Requirements for interconnection to building wiring:		N/A
6.6	Safeguards against fire due to connection to additional equipment	the state	P
	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		- N/A
7.4	Use of personal safeguards (PPE)	2 7 5	N/A
4	Personal safeguards and instructions:	5	
7.5	Use of instructional safeguards and instructions		N/A
7	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		Р
8.3	Safeguards against mechanical energy sources		P
8.4	Safeguards against parts with sharp edges and corners		P
8.4.1	Safeguards	MS1 classification	N/A
8.5 🤿	Safeguards against moving parts		N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	t the t	N/A
8.5.2	Instructional Safeguard		
8.5.4	Special categories of equipment comprising moving parts	the factor	N/A
8.5.4.1	Large data storage equipment		N/A
8.5.4.2	Equipment having electromechanical device for destruction of media		N/A
8.5.4.2.1	Safeguards and Safety Interlocks		N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
	Instructional Safeguard:		—
8.5.4.2.3	Disconnection from the supply		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
		Result - Remark	
8.5.4.2.4	Probe type and force (N)	A	N/A
8.5.5	High Pressure Lamps	A 5	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 Stability	Mass < 7kg	N/A
8.6.1	Product classification	MS1	N/A
	Instructional Safeguard		—
8.6.2	Static stability		N/A
8.6.2.2	Static stability test	F 4 1	N/A
2	Applied Force	, t	
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
*	Position of feet or movable parts:	× + +	
8.7	Equipment mounted to wall or ceiling	1 Alexandre	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	A AT	N/A
8.7.2	Direction and applied force:	K C X	N/A
8.8	Handles strength		N/A
8.8.1	Classification		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	× ~	
8.10 🔨	Carts, stands and similar carriers	*	N/A
8.10.1	General		N/A
8.10.2	Marking and instructions		N/A
1	Instructional Safeguard:		
8.10.3	Cart, stand or carrier loading test and compliance	A 2	N/A
	Applied force:		
8.10.4	Cart, stand or carrier impact test	S. I	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):	A 5	N/A
8.11	Mounting means for rack mounted equipment	A S	N/A
8.11.1	General		N/A
8.11.2	Product Classification		N/A
8.11.3	Mechanical strength test, variable N	* * *	N/A
8.11.4	Mechanical strength test 250N, including end stops	(v. 4.	N/A
8.12 🔷	Telescoping or rod antennas		N/A
	Button/Ball diameter (mm)		

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

10	RADIATION		P
10.2	Radiation energy source classification	RS1	Р
10.2.1	General classification	* *	Р
10.3	Protection against laser radiation	No laser.	N/A
	Laser radiation that exists equipment:	* 5	
	Normal, abnormal, single-fault	<u></u>	N/A
	Instructional safeguard	t (
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Tool		_
10.4	Protection against visible, infrared, and UV radiation	LED light	Р
10.4.1	General		Р
10.4.1.a)	RS3 for Ordinary and instructed persons		N/A
10.4.1.b)	RS3 accessible to a skilled person		N/A
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

Clause	Requirement + Test	Result - Remark	Verdict
10.4.1.g)	Materials resistant to degradation UV	No UV.	N/A
10.4.1.h)	Enclosure containment of optical radiation	No required.	N/A
10.4.1.i)	Exempt Group under normal operating conditions	Exempt group	Р
10.4.2	Instructional safeguard	Not required.	N/A
10.5	Protection against x-radiation	No X-radiation.	N/A
10.5.1	X- radiation energy source that exists equipment :	(See appended table B.3 & B.4)	N/A
4	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards		N/A
~	Instructional safeguard for skilled person	At a	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	the the the	—
1 to	Abnormal and single-fault condition	1	N/A
5	Maximum radiation (pA/kg)	, t	N/A
10.6	Protection against acoustic energy sources		Р
10.6.1	General	5 5	Р
10.6.2	Classification	RS2	P
	Acoustic output, dB(A)	4	N/A
* *	Output voltage, unweightedr.m.s.	Maximum volume: Right:105.0mV;Left: 105.0mV Warning: Right: 20.6V; Left: 20.7mV	Ρ
10.6.4	Protection of persons		Р
AND AND	Instructional safeguards	<ol> <li>Symbol ;</li> <li>"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.</li> </ol>	Ρ
x	Equipment safeguard prevent ordinary person to RS2	Automatically return to RS1 level when the power is switched off.	
4°	Means to actively inform user of increase sound pressure	Warning: hearing damage risk or equivalent wording	_
	Equipment safeguard prevent ordinary person to RS2	After 20h the acoustic output not exceeding RS1	_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	No such device	N/A

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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	+ *	N/A	
	Maximum dB(A) :			
10.6.5.3	Cordless listening device		N/A	
	Maximum dB(A)	L of		

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		Ρ
B.2	Normal Operating Conditions	See the following details.	P
B.2.1	General requirements	(See summary of testing and appended table)	Р
A.C.	Audio Amplifiers and equipment with audio amplifiers	Not such equipment.	N/A
B.2.3	Supply voltage and tolerances	(See appended table B.2.5)	Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	K	Р
B.3.1	General requirements:	See below	Р
B.3.2	Covering of ventilation openings		N/A
B.3.3	D.C. mains polarity test		N/A
B.3.4	Setting of voltage selector:	No voltage selector	N/A
B.3.5	Maximum load at output terminals	No such terminals	N/A
B.3.6	Reverse battery polarity	No battery reverse polarity	N/A
B.3.7 🔷	Abnormal operating conditions as specified in Clause E.2.		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	Р
B.4	Simulated single fault conditions		P
B.4.2	Temperature controlling device open or short- circuited	No such device used.	N/A
B.4.3	Motor tests		Ρ
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	the state of	N/A
B.4.4	Short circuit of functional insulation	(See appended table B.4)	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P

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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)	P	
B.4.7	Continuous operation of components		N/A	
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions		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	to the sta	N/A
C.1.2	Requirements	5	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus	1	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	DINSTRUCTIONAL SAFEGUARDS	P
F.1	General requirements		Р
<	Instructions – Language:	Instructions in English arereviewed.	_
F.2	Letter symbols and graphical symbols	* & *	Р
F.2.1	Letter symbols according to IEC60027-1	K 2	Р
F.2.2 🔷	Graphic symbols IEC, ISO or manufacturer specific	t at .	Р
F.3	Equipment markings	* 5 *	Р
F.3.1	Equipment marking locations		Р
F.3.2	Equipment identification markings		P 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	AN AN P	N/A
F.3.3.3	Nature of supply voltage:		
F.3.3.4	Rated voltage:	20	
F.3.3.4	Rated frequency:		
F.3.3.6	Rated current or rated power:		
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices		N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlet.	N/A
F.3.5.2	Switch position identification marking:	Not such switch.	N/A
F.3.5.3	Replacement fuse identification and rating markings:		N/A
F.3.5.4	Replacement battery identification marking :	Provided the user manual.	Р
F.3.5.5	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification	< × ×	N/A
F.3.6.1	Class I Equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal		N/A
F.3.6.1.2	Neutral conductor terminal	<b>~</b>	N/A
F.3.6.1.3	Protective bonding conductor terminals	* * *	N/A
F.3.6.2	Class II equipment (IEC60417-5172)		N/A

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

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	14° 7°	IEC/EN 62368-1	A
Clause	Requirement + Test	Result - Remark	Verdict
	X		
G	COMPONENTS		Р

G.1	Switches		N/A
G.1.1	General requirements	No switches.	€N/A
G.1.2	Ratings, endurance, spacing, maximum load	1 & 4	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	+ 21 4	N/A
G.2.4	Mains relay, modified as stated in G.2	-	N/A
G.3	Protection Devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-off used.	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	4	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	the star	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	2 P	N/A
G.3.2	Thermal links	<u> </u>	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal-links.	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
2	Aging hours (H)		_
	Single Fault Condition:		
	Test Voltage (V) and Insulation Resistance ( $\Omega$ ). :		
G.3.3	PTC Thermistors		N/A
G.3.4	Overcurrent protection devices	A 2	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to	o G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	the second se	N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N/A
G.4	Connectors	- 5	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	Star &	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		N/A
G.5.2	Endurance test on wound components	, t	N/A
G.5.2.1	General test requirements	the states	N/A
G.5.2.2	Heat run test	A S	N/A
	Time (s)		_
	Temperature (°C):		
G.5.2.3	Wound Components supplied by mains	+ 5 4	N/A
G.5.3	Transformers		N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1):	the state of	N/A
	Position		_
	Method of protection		_
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:		
G.5.3.3	Overload test:	2 T X	N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding Temperatures testing in the unit	the state of the s	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	AT ST	N/A
G.5.4	Motors	<u> </u>	Р
G.5.4.1	General requirements		Р
	Position:	4	_
G.5.4.2	Test conditions	× 7	N/A
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test		N/A
	Test duration (days)		_
G.5.4.5	Running overload test for d.c. motors in secondary circuits	t state	N/A
G.5.4.5.2	Tested in the unit		N/A
1	Electric strength test (V):		
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)		N/A
4	Electric strength test (V):		
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		Р
G.5.4.6.2	Tested in the unit		Р

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Clause	Requirement + Test	Result - Remark	Verdict
	Maximum Temperature	(See appended table B.4)	N/A
*	Electric strength test (V):		N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):		N/A
	Electric strength test (V):		N/A
G.5.4.7	Motors with capacitors	A S	N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage	+ 3, 4	
G.6 💉	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation	2 3 3	N/A
G.7	Mains supply cords	4	N/A
G.7.1	General requirements	Not directly connected to mains	N/A
	Туре		
4	Rated current (A):	A A A	
	Cross-sectional area (mm ² ), (AWG):		
G.7.2	Compliance and test method	2	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	At state	N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):	4	
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	1	
G.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g)		—
A C	Diameter (m):		_
4	Temperature (°C):		_
G.7.6	Supply wiring space		N/A
G.7.6.2	Stranded wire	<b>1</b>	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		N/A
G.8.2	Safeguard against shock	* *	N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test		N/A
G.8.3.3	Temporary overvoltage	* \$ \$	N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No IC current limiter provided within the equipment.	N/A
G.9.1 b)	Limiters do not have manual operator or reset		N/A
G.9.1 c)	Supply source does not exceed 250 VA:		_
G.9.1 d)	IC limiter output current (max. 5A):		_
G.9.1 e)	Manufacturers' defined drift:		_
G.9.2	Test Program 1	~	N/A
G.9.3	Test Program 2	4	N/A
G.9.4	Test Program 3	A A A	N/A
G.10	Resistors		N/A
G.10.1	General requirements		N/A
G.10.2	Resistor test		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	with which it	N/A
G.10.3.1	General requirements	x x	N/A
G.10.3.2	Voltage surge test	Str. 1	N/A
G.10.3.3	Impulse test		N/A
G.11	Capacitor and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units	₹ 1	N/A
G.11.3	Rules for selecting capacitors	×	N/A
G.12	Optocouplers		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:	4 4	
	Routine test voltage, Vini,b:		
G.13	Printed boards	÷ .	P
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards		Р

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Clause	IEC/EN 62368-	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
G.13.3	Coated printed boards	A S	N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
	Compliance with cemented joint requirements (Specify construction):	the state	—
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 2 7	N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2a)	Thermal conditioning		N/A
G.13.6.2b)	Electric strength test		N/A
G.13.6.2c)	Abrasion resistance test	6	N/A
G.14	Coating on components terminals	, t	N/A
G.14.1	Requirements		N/A
G.15	Liquid filled components	2 2	N/A
G.15.1	General requirements		N/A
G.15.2	Requirements		N/A
G.15.3	Compliance and test methods	+	N/A
G.15.3.1	Hydrostatic pressure test	K E A	N/A
G.15.3.2	Creep resistance test		N/A
G.15.3.3	Tubing and fittings compatibility test	A.C.	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		N/A
G.15.4	Compliance	¥ 4	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	At shift &	N/A
C2)	Test voltage:		_
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	t t t	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
D2)	Capacitance:	1 1 S	_	
D3)	Resistance:	17 S	_	

н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	€N/A
H.1	General	1 1 1	N/A
H.2	Method A		N/A
Н.3 🔶	Method B	4	N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)		_
H.3.1.2	Voltage (V)		_
H.3.1.3	Cadence; time (s) and voltage (V):		—
H.3.1.4	Single fault current (mA):		_
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	the state	N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)		_

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

к	SAFETY INTERLOCKS	N/A
K.1	General requirements	N/A
K.2	Components of safety interlock safeguard mechanism	N/A
K.3	Inadvertent change of operating mode	N/A
K.4	Interlock safeguard override	N/A
K.5	Fail-safe	N/A
	Compliance	N/A
K.6	Mechanically operated safety interlocks	N/A
K.6.1	Endurance requirement	N/A
K.6.2	Compliance and Test method	N/A
K.7	Interlock circuit isolation	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):	N/A
K.7.2	Overload test, Current (A)	N/A
K.7.3	Endurance test	N/A

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

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

М	EQUIPMENT CONTAINING BATTERIES AND TH	IEIR 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 (m ³ /s):		
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance <i>d</i> (mm):		
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A

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

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

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

Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN	OBJECTS AND SPILLAGE OF	Ρ
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):		
	Та (°С)		
P.4.2 b)	Abrasion testing		N/A
P.4.2 c)	Mechanical strength testing:		N/A



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Clause	Requirement + Test	1 Str	Result - Remark	×	Verdict
			•		

r		
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	N/A
Q.1	Limited power sources	N/A
Q.1.1 a)	Inherently limited output	N/A
Q.1.1 b)	Impedance limited output	N/A
	- Regulating network limited output under normal operating and simulated single fault condition	N/A
Q.1.1 c)	Overcurrent protective device limited output	N/A
Q.1.1 d)	IC current limiter complying with G.9	N/A
Q.1.2	Compliance and test method	N/A
Q.2	Test for external circuits – paired conductor cable	N/A
	Maximum output current (A):	
	Current limiting method:	

R	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General requirements	N/A
R.2	Determination of the overcurrent protective device and circuit	N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).	N/A

4		
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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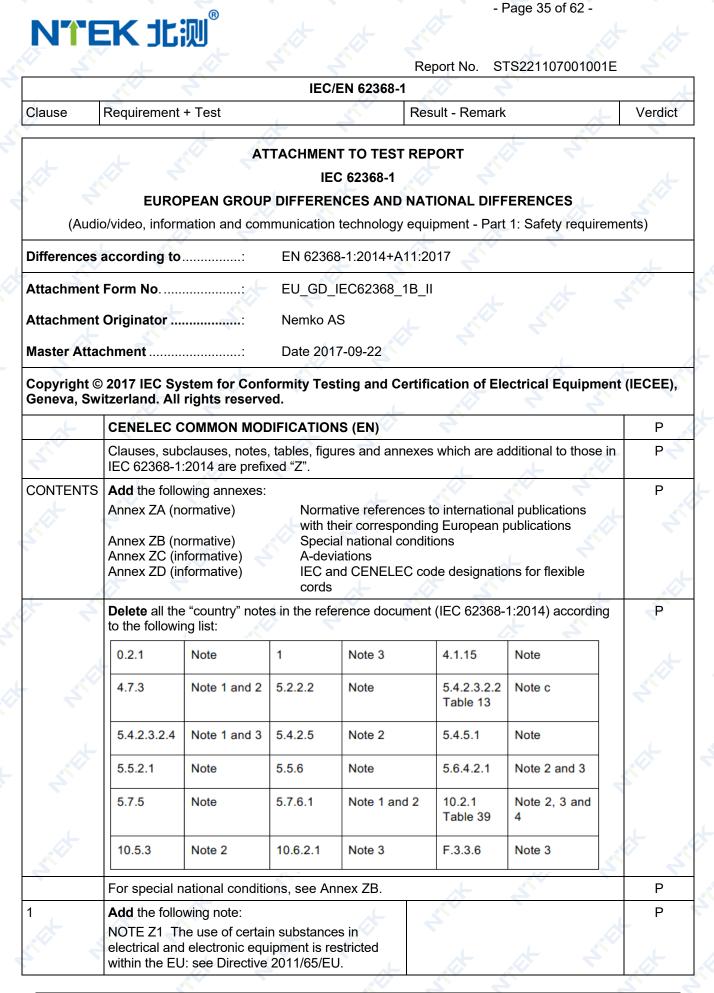
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Clause	Requirement + Test	Result - Remark	Verdict
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, 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

т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements		Р
T.2	Steady force test, 10 N		N/A
Т.3	Steady force test, 30 N		N/A
Т.4	Steady force test, 100 N		Р
T.5	Steady force test, 250 N	(See appended table T.5)	N/A
Т.6	Enclosure impact test		N/A
	Fall test	(See appended table T.6)	N/A
	Swing test		N/A
Т.7	Drop test:	(See appended table T.7)	Р
Т.8	Stress relief test	(See appended table T.8)	Р
Т.9	Impact Test (glass)	Not applicable.	N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J):		—

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Requirement + Test	Result - Remark	Verdict		
Height (m):		_		
Glass fragmentation test:	No glass.	N/A		
Test for telescoping or rod antennas		N/A		
Torque value (Nm)		_		
	Requirement + Test         Height (m)         Glass fragmentation test         Test for telescoping or rod antennas	Requirement + Test       Result - Remark         Height (m)       Glass fragmentation test         Glass fragmentation test       No glass.         Test for telescoping or rod antennas       Image: Comparison of the second secon		

	AGAINST THE EFECTS OF IMPLOSION	UBES (CRT) AND PROTECTION	N/A
U.1	General requirements	No CRTs.	N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen		N/A

V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)		Р
V.1	Accessible parts of equipment		Р
V.2	Accessible part criterion		Р



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Clause	Requirement + Test	5	Result - Remark	Verdict
4.Z1	Add the following new subclause after 4.9:		×	N/A
	To protect against excessive c and earth faults in circuits conr <b>mains</b> , protective devices sha as integral parts of the equipm the building installation, subject b) and c):	nected to an a.c. Il be included either ent or as parts of	tet stre	sitt sitt
	a) except as detailed in b) and devices necessary to comply v requirements of B.3.1 and B.4 parts of the equipment;	vith the		at stat
	b) for components in series with the equipment such as the sup coupler, r.f.i. filter and switch, s earth fault protection may be p protective devices in the building	oply cord, appliance short-circuit and provided by		* 1 2
	c) it is permitted for <b>pluggable</b> or <b>permanently connected e</b> dedicated overcurrent and sho in the building installation, prov of protection, e.g. fuses or circ specified in the installation inst	<b>quipment</b> , to rely on ort-circuit protection vided that the means uit breakers, is fully	ATTER P	
	If reliance is placed on protection installation, the installation inst state, except that for <b>pluggabl</b> <b>A</b> the building installation shall providing protection in accordat of the wall socket outlet.	ructions shall so le equipment type be regarded as	AT AT	ANTER AN
5.4.2.3.2.4				N/A
	The requirement for interconne circuit is in addition given in E			4
10.2.1	Add the following to ^{c)} and ^{d)} in For additional requirements, se			N/A

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Clause	Requirement + Test		Result - Remark	Verdict
	· ·	the state of the s		
10.5.1	Add the following after the fi		1 A 2	N/A
	For RS 1 compliance is checked under the following condition		At 2	*
	In addition to the normal ope controls adjustable from the any object such as a tool or internal adjustments or pres locked in a reliable manner, give maximum radiation whi intelligible picture for 1 h, at measurement is made.	outside by hand, by a coin, and those ets which are not are adjusted so as to ilst maintaining an the end of which the	ster wret wret	- Ant
	NOTE Z1 Soldered joints an examples of adequate locking			
	The dose-rate is determined radiation monitor with an eff at any point 10 cm from the apparatus.	ective area of 10 cm ² ,	the suffit	
	Moreover, the measuremen fault conditions causing an in voltage, provided an intelligi maintained for 1 h, at the en measurement is made.	ncrease of the high- ble picture is		Kat &
	For RS1, the dose-rate shall taking account of the backgr		5. 4	1 5
	NOTE Z2 These values app 96/29/Euratom of 13 May 19		de de	
10.6.1	Add the following paragraph subclause:	n to the end of the		N/A
	EN 71-1:2011, 4.20 and the and measurement distances			♦
10.Z1	Add the following new subc	lause after 10.6.5.	2	N/A
	10.Z1 Non-ionizing radiation frequencies in the range 0		*	- 5
	The amount of non-ionizing by European Council Recon 1999/519/EC of 12 July 199 exposure of the general pub fields (0 Hz to 300 GHz).	nmendation 9 on the limitation of	et fift fr	, at
	For intentional radiators, ICN be taken into account for Lin Time-Varying Electric, Magn Electromagnetic Fields (up theld and body-mounted dev to EN 50360 and EN 50566	niting Exposure to netic, and to 300 GHz). For hand- rices, attention is drawn		A A A
G.7.1	Add the following note:	4		N/A
	NOTE Z1 The harmonized corresponding to the IEC co Annex ZD.		ANY I	

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		IEC/EN 6236		
Clause	Requirement + Test		Result - Remark	Verdict
Bibliography	Add the following sta	indards:	×	Р
	Add the following no	tes for the standards indicat	ted:	
	IEC 60130-9	NOTE Harmonized as EN 6	0130-9.	×
	IEC 60269-2	NOTE Harmonized as HD 6	0269-2.	
	IEC 60309-1 N	NOTE Harmonized as EN 6	0309-1.	
	IEC 60364	OTE some parts harmoniz	ed in HD 384/HD 60364 series	s.
	IEC 60601-2-4 N	OTE Harmonized as EN 60	0601-2-4.	
	IEC 60664-5	OTE Harmonized as EN 60	0664-5.	
	IEC 61032:1997 N	OTE Harmonized as EN 61	1032:1998 (not modified). 🛛 🖉	
	IEC 61508-1 N	OTE Harmonized as EN 61	1508-1.	
	IEC 61558-2-1	OTE Harmonized as EN 6 ⁻	1558-2-1.	
	IEC 61558-2-4 N	IOTE Harmonized as EN 6 ⁻	1558-2-4.	
	IEC 61558-2-6	IOTE Harmonized as EN 6 ⁻	1558-2-6.	
	IEC 61643-1	OTE Harmonized as EN 61	1643-1.	
	IEC 61643-21	OTE Harmonized as EN 61	1643-21.	
	IEC 61643-311 N	OTE Harmonized as EN 61	1643-311.	
	IEC 61643-321	OTE Harmonized as EN 61	1643-321.	× <
	IEC 61643-331	OTE Harmonized as EN 61	1643-331.	
ZB	ANNEX ZB, SPECIA	AL NATIONAL CONDITIO	NS (EN)	Р
4.1.15	Denmark, Finland, I	Norway and Sweden		N/A
	To the end of the sub	clause the following is adde	ed:	5
		<b>quipment type A</b> intended quipment or a network shal		
		nection to reliable earthing		
	if surge suppressors	are connected between the		
		d <b>accessible</b> parts, have a		5
		he equipment shall be ned <b>mains</b> socket-outlet.		
		ne applicable countries shall		
	be as follows:		<u> </u>	* *
	In <b>Denmark</b> :			
		kaltilsluttesenstikkontakt me	ed 🖉 🦷 🤝	<b>&gt;</b>
		elsetilstikproppensjord."		x
	In <b>Finland</b> : "Laite on	in illev ov vetetti u veniste vezis		
	IIItettavasuojakoskett "	imillavarustettuunpistorasia	an	
	In <b>Norway</b> : "Apparat	etmåtilkoplesjordetstikkonta	ıkt"	
	In Sweden: "Apparat			
	jordatuttag"			
1.7.3	United Kingdom			N/A
···	-	clause the following is add	ed:	
		formed using a socket-outle		
	complying with BS 13	363, and the plug part shall	be	
	assessed to the relev	ant clauses of BS 1363. Al		
	see Annex G.4.2 of t			

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Clause	Requirement + Test		Result - Remark	Verdict
				Verdict
5.2.2.2	Denmark			N/A
	After the 2nd paragraph add	-	At Strain	
	A warning (marking <b>safegua</b> <b>current</b> is required if the <b>tou</b> the limits of 3,5 mA a.c. or 10	ch current exceeds		- ATOM
5.4.11.1 and	Finland and Sweden		* & &	N/A
Annex G	To the end of the subclause t	the following is added:		
	For separation of the telecom from earth the following is ap			S.C.
	If this insulation is solid, inclu forming part of a component, consist of either		t at the area	
	• two layers of thin sheet mat shall pass the electric strengt		at the second seco	
	• one layer having a distance at least 0,4 mm, which shall p strength test below.			
	If this insulation forms part of component (e.g. an optocoup distance through insulation re- insulation consisting of an ins completely filling the casing, and creepage distances do no component passes the electra accordance with the compliant in addition	oler), there is no equirement for the sulating compound so that clearances not exist, if the ric strength test in	Arter Arter Ar	et 4
	• passes the tests and inspec with an electric strength test 1,6 (the electric strength test performed using 1,5 kV), and	of 1,5 kV multiplied by of 5.4.9 shall be	ALCE AL	* 3
	• is subject to routine testing during manufacturing, using a 1,5kV.		4 7	A REAL
	It is permitted to bridge this ir capacitor complying with EN subclass Y2.		t with street	
	A capacitor classified Y3 acc 14:2005, may bridge this insu following conditions:			4 STOL
	• the insulation requirements having a capacitor classified 60384-14, which in addition t tested with an impulse test of 5.4.11;	Y3 as defined by EN to the Y3 testing, is	ATTEN A	AN AT A
	• the additional testing shall b the test specimens as descri		Alt ANY	*
	the impulse test of 2,5 kV is t before the endurance test in sequence of tests as describe	EN 60384-14, in the		

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	IEC/EN 62368-	1 🖉 <	
Clause	Requirement + Test	Result - Remark	Verdict
5.5.2.1	Norway After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	the with with	N/A
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added: Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable</b> <b>equipmenttype A</b> shall comply with G.10.1 and the test of G.10.2.	et suit and	N/A
5.6.1	DenmarkAdd to the end of the subclauseDue to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	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.	stat what what	N/A
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.	t whet whet	N/A
5.7.5	<b>Denmark</b> To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	t fr	N/A

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		IEC/EN 62368-1		
Clause	Requirement + Test	<u> </u>	Result - Remark	Verdict
5.7.6.1	Norway and Sweden		×	N/A
	To the end of the subclause th	e following is added:		
	The screen of the television dis normally not earthed at the ent and there is normally no equip system within the building. The earthing of the building installa isolated from the screen of a c	trance of the building otential bonding erefore the protective tion needs to be		stift stift
	system.	<u> </u>		
	It is however accepted to provi external to the equipment by a interconnection cable with galv may be provided by a retailer,	n adapter or an /anic isolator, which	t and an	t t
	The user manual shall then ha similar information in Norwegia language respectively, depend country the equipment is inten	an and Swedish ling on in what	the state	* star \$
	"Apparatus connected to the p the building installation through connection or through other ap connection to protective earthin television distribution system u may in some circumstances cr Connection to a television distri- therefore has to be provided th providing electrical isolation be frequency range (galvanic isolation)	n the mains oparatus with a ng – and to a using coaxial cable, reate a fire hazard. ribution system prough a device elow a certain	Anter Anter	ANTER A
	11)" NOTE In Norway, due to regul installations, and in Sweden, a shall provide electrical insulation The insulation shall withstand of 1,5 kV r.m.s., 50 Hz or 60 H	galvanic isolator on below 5 MHz. a dielectric strength	ster ster	with with
	Translation to Norwegian (the also be accepted in Norway):	Swedish text will		At Ar
	"Apparatersomerkoplettilbesky nettpluggog/eller via annetjord ogertilkoplet et koaksialbasert kanforårsakebrannfare. For å unngådetteskaldetvedtilkopling TV nettinstalleresengalvanisk mellomapparatetogkabel-TV n	tilkopletutstyr – kabel-TV nett, gavapparatertilkabel- isolator	t and a	et stat
	Translation to Swedish:			
	"Apparatersomärkopplad till sk jordatvägguttagoch/eller via annanutrustningochsamtidigtä TV nätkanivissa fall medfőra ri Főrattundvikadettaskall vid ans till kabel-TV nätgalvanisk isola finnasmellanapparatenochkab	rkopplad till kabel- sk főr brand. slutningavapparaten tor	with with	

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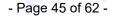
Clause	Poquiroment + Test		Result - Remark	Verdict
Clause	Requirement + Test		Result - Remark	Verdict
5.7.6.2	Denmark To the end of the subclause The warning (marking safeg current is required if the touc protective current exceed the	uard) for high touch ch current or the	pet with with	N/A
B.3.1 and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

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		IEC/EN 62368-1		
Clause	Requirement + Test	Str	Result - Remark	Verdict
G.4.2	United Kingdom To the end of the subclause th The plug part of direct plug-in assessed to BS 1363: Part 1, 12.9, 12.11, 12.12, 12.13, 12.7 except that the test of 12.17 is	equipment shall be 12.1, 12.2, 12.3, 16, and 12.17,	Ket with t	N/A
4	less than 125 °C. Where the n replaced by an Insulated Shut (ISOD), the requirements of cl also apply.	netal earth pin is ter Opening Device		K III
G.7.1	United Kingdom			N/A
Aritet	To the first paragraph the follo Equipment which is fitted with cord and is designed to be cor socket conforming to BS 1363 flexible cable or cord shall be to plug' in accordance with the P (Safety) Regulations 1994, Sta 1994 No. 1768, unless exemp regulations. NOTE "Standard plug" is defin and essentially means an app conforming to BS 1363 or an a plug.	a flexible cable or nnected to a mains by means of that fitted with a 'standard lugs and Sockets etc atutory Instrument ted by those ned in SI 1768:1994 roved plug		ANTER AN
G.7.1	Ireland To the first paragraph the follo Apparatus which is fitted with a cord shall be provided with a p with Statutory Instrument 525: and Conversion Adapters for I Regulations: 1997. S.I. 525 pr recognition of a standard of ar which is equivalent to the relevance	a flexible cable or olug in accordance 1997, "13 A Plugs Domestic Use ovides for the nother Member State	ster ster s	N/A
G.7.2	Ireland and United Kingdom To the first paragraph the follo A power supply cord with a co is allowed for equipment which and up to and including 13 A.	wing is added: nductor of 1,25 mm ²	t such such	N/A

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	IEC/E	EN 62368-1	2	×
Clause	Requirement + Test	Result - F	Remark	Verdict
ZC	ANNEX ZC, NATIONAL DEVIATIONS	(EN)	* *	N/A
10.5.2	<b>Germany</b> The following requirement applies:	t At	4 million	N/A
	For the operation of any cathode ray tube for the display of visual images operating acceleration voltage exceeding 40 kV, authorization is required, or application of approval (Bauartzulassung) and marking	g at an of type		- fre
	Justification: German ministerial decree against ionizi radiation (Röntgenverordnung), in force 2002-07-01, implementing the European 96/29/EURATOM.	since		
	<b>NOTE</b> Contact address: Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de			ATT AT



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**IEC/EN 62368-1** Verdict Clause Requirement + Test Result - Remark 4.1.2 **TABLE: List of critical components** Р Object / part No. Manufacturer/ Type / model Technical data Standard Mark(s) of conformity¹ trademark QZ-01800EA00 Charger Guangdong Input:100-240V~ IEC/EN CB Test report Quanzhi 50/60Hz 0.5A 62368-1 No.: CN22NABR Technology Co., 001 Output: Ltd. DC5.0V/3.0A, 7.0V/2.0A. 9.0V/2.0A, 12.0V/1.5A **Rechargeable Li-ion** SHENZHEN U3256125PHV-3.85Vd.c. IEC 62133-2: Test Report no.: UTILITY ENERGY LCSA10252204 Battery UTL 7680mAh, 2017 CO., LTD. 29.568Wh 8S ANHUI RETOP NLW1016AV1* DC3V, 150mA, SGS Report Flash LED IEC ELECTRONICS exempt group 62471:2006 No.:SHES22010 0197571 CO., LTD ΕN 62471:2008 DKA4RUS18H5 8" LCD screen LEAD EN 62368-1 Tested GQ COMMUNICATIO withappliance NS LTD. S0336 7Ω, 1.5W max. Tested with Speaker Shenzhen EN 62368-1 Chuangxingidian appliance Electronic Co., Ltd. PCB RED BOARD LTD H103D V-0, 130°C UL 94 UL E133472 UL 94 UL (Alternative) Interchangeable V-0, 130°C Interchangeable 80°C, V-0, UL 94 UL E45329 Plastic enclosure SABIC EXRL0246 INNOVATIVE 1.5mm thickness (GG) PLASITCS B V Min. DMX9455 (GG) UL (Alternative) V-0, 80°C UL 94 Interchangeable Interchangeable Tested with Vibration motor Guangxi **VICR1027** Rated Voltage: IEC/EN DC 3.0V, 80mA 62368-1 WeiYiTong appliance Electronic max. Rated Technology Speed 12000±3000rpm Co.,Ltd

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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			I 62368-1		
Clause	Requirement +	Test	Result - Remark	×	Verdict
4.8.4, 4.8.5		n coin/button cell batteri			N/A
	_	tests are conducted in th	e sequence noted.)		
4.8.4.2	TABLE: Stress		~		
	Part	Material	Oven Temperature	e (°C) Com	nments
		-		· ·	
4.8.4.3		replacement test	<		
Battery par	t no		·		
3attery Ins	tallation/withdrawa	l	Battery Installation/Rem	oval Cycle Com	nments
			1		
			2		
			3	5	4
			4		
			5		2
			0		
			6		
			8		
					4
			8		ź
4.8.4.4	TABLE: Drop to	est	8		\$
	TABLE: Drop to	est Drop Distance	8	Obse	
			8 9 10	Obse	
4.8.4.4 Impa			8 9 10	Obse	 rvations
			8 9 10 Drop No. 1	Obse	rvations
Impa		Drop Distance	8 9 10 Drop No. 1 2	Obse	rvations
Impa 4.8.4.5	act Area	Drop Distance	8 9 10 Drop No. 1 2		rvations
Impa 4.8.4.5	act Area	Drop Distance	8 9 10 Drop No. 1 2 3		
Impa 4.8.4.5	act Area	Drop Distance	8 9 10 Drop No. 1 2 3		
Impa 4.8.4.5	act Area	Drop Distance	8 9 10 Drop No. 1 2 3		
Impa 4.8.4.5 Impacts	act Area	Drop Distance	8 9 10 Drop No. 1 2 3		
Impa 4.8.4.5 Impacts 4.8.4.6	act Area	Drop Distance	8 9 10 Drop No. 1 2 3	Image: Second	
Impa 4.8.4.5 Impacts 4.8.4.6	TABLE: Impact	Drop Distance	8 9 10 Drop No. 1 2 3 Impact energy (I	Image: Second	



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		IEC/EN	62368-1			
Clause	Requiremen	it + Test	Result	- Remark	X	Verdict
4.8.5	4.8.5 TABLE: Lithium coin/button cell batteries mechanical test result					
Test position		Surface tested	Surface tested Force (N)		Duration applied	
			7		4	5
		* * ~				

Supplementary information:

5.2	TADIE	Classification			1		Р
		E: Classification of electrical energy sources ate Voltage and Current conditions				<u>Р</u>	
0.2.2.2		Location (e.g.			Parameters		
No.	Supply Voltage designation)		Test conditions	U (Vrms or Vpk	l (Apk or Ar	ms) Hz	ES Class
	- 2		Normal		-		
1	5Vd.c	5Vd.c All internal	Abnormal			-,-	ES1 (declared
	circuits	Single fault –		×	- 1		
,L		Ċ,	Normal	* - 5			
2	Full charged		Abnormal	-			ES1
	battery	output	Single fault –		.(=	<u> </u>	(declared
5.2.2.3	- Capacitance	Limits					
		Location (e.g.		Parameters			
No.	Supply Voltage	circuit designation)	Test conditions	Capacitance	, nF	Upk (V)	ES Class
		5.	Normal				<u></u>
		-	Abnormal	- 12		-	-
			Single fault –	*-	<u></u>		
5.2.2.4	- Single Pulses	5					
	Supply	Location (e.g.			Parameters		
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class
	+ 5	4	Normal	<u>_</u>	- 7		
	-		Abnormal	<b>с</b> – У		* - *	
			Single fault –		.L - 🔨	<u> </u>	

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STS221107001001E Report No. IEC/EN 62368-1 Requirement + Test Result - Remark Verdict Clause 5.2.2.5 - Repetitive Pulses Location (e.g. Parameters Supply No. circuit **Test conditions** ES Class Voltage Off time (ms) Upk (V) lpk (mA) designation) Normal --------Abnormal --------Single fault -_ --___

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 measurem	L			4	Ρ
5	Supply voltage (V)		See	below	X	
	Ambient T _{min} (°C)	.:		-	4	
×	Ambient T _{max} (°C)	.:	4	4	-	
	Tma (°C)	.: 🗲				
Maximum m	neasured temperature T of part/at:		Т	(°C)		Allowed T _{max} (°C)
L &		DC5Vch	arging	Full battery of	discharging	
PCB near U	1500	56.4		51.2	-	130
PCB near U	125	54.8		50.7		130
Battery wire	- <del></del>	49.1		48.4		80
Battery bod	у	52.3		49.1	Æ	Ref.
Enclosure ir	nside near battery	47.1		46.3		Ref.
Ambient		40.0		40.0		<u>_</u>
Touch Tem	peratures (Clause 9)	2				
Enclosure o	outside near battery	31.3		31.2		48
Enclosure o	outside near DC inlet	31.5		30.5		48
Button		30.4		30.1	<	48
Screen		34.6		32.9		48
Adapter sur	face	41.3	-			77
Ambient	N S L	25.0		25.0		

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Report No. STS221107001001E IEC/EN 62368-1 Requirement + Test Result - Remark Verdict Clause Supplementary information: 1, External enclosure surface of the equipment (contact time >1 mins). t1 (°C) Allowed Insulation t₂ (°C) T (°C) R₁ (Ω) R₂ (Ω) Temperature T of winding: class T_{max} (°C) -------------------___ ------------------Supplementary information: Note 1: Tma should be considered as directed by appliable requirement

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

5.4.1.10.2	TABLE: Vicat	softening t	emperature of the	ermoplastics			N/A
Penetration	(mm)		:		¥	Stor A	
Object/ Part	No./Material			Manufacturer/t rademark		T softening (°C)	
-5		.6				- *	4.
supplementa	ary information:		2	~		X X	

						4	
5.4.1.10.3	TABLE: Ball pro	essure test of the	rmoplastic	s			N/A
Allowed imp	ression diameter	(mm)	:	≤ 2 mm		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	—
Object/Part	No./Material	Manufacturer/trad	lemark	Test tempera	ature (°C)	Impression dia	meter (mm)
1	<u>«</u>				4	¥	
Supplement	ary information:		~	7	×	Str.	

N/A

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum	Clearance	s/Creepa	ge distance		£ .	L.	N/A
•	cl) and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm)²	Required ³ cr (mm)	cr (mm)
- 2			A				Ø S	
Supplementa	ary information:	+ &		•		7		

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage       N/A						
	Overvoltage Category (C	DV)		:			
4	Pollution Degree			:			
Clearance	distanced between:	Required withstand voltage	Required cl (mm)	Meas	sured cl (mm)		
				r.	- /		

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 IEC/EN 62368-1

 Clause
 Requirement + Test
 Result - Remark
 Verdict

 Supplementary information:
 N/A
 Verdict
 Verdict

5.4.2.4 TAB	BLE: Clearances base	d on electric streng	th test	N/A
Test voltage app	lied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No
-		<u> </u>	<u>-</u>	-
		<u> </u>	- *	A
Supplementary in	nformation:		At Str	4

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Dis	tance through insulation	n measureme	ents		N/A
Distance thr insulation di		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
	×				<u> </u>	
Supplement	ary informatior	1:	STAT	4	2	at and

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

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

X-capacitors installed for testing are:

bleeding resistor rating:

ICX: see above

Notes:

A. Test Location:

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

B. Operating condition abbreviations:

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

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Clause	Requirement + Test	, c	Result -	Remark	Verdict		
5.6.6.2	TABLE: Resistance	of protective conduc	tors and termina	ations	N/A		
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)		
		- <u>``</u>	-		<pre></pre>		
Suppleme	entary information:	2	*	<u> </u>	•		

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

Supplementary Information:

N/A

Notes:

[1] Supply voltage is the anticipated maximum Touch Voltage

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

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

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

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

6.2.2	TABLE: Electrical power sources (PS) measurements for classification       P					
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification	
X		Power (W) :	A - 2	28.61	×	
A ^{&amp;}	Battery pack	VA (V) :	<u>-</u>	3.23	PS2	
		IA (A):	<u> </u>	8.86		

STS221107001001E Report No. IEC/EN 62368-1 Clause Requirement + Test **Result - Remark** Verdict Power (W)..... : 35.74 B& VA (V) ..... : 2.36 Battery cell PS2 IA (A) ..... ____ 15.17 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)						
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms} )	Arcing PIS? Yes / No			
	- 2		-		1			

#### Supplementary information:

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

6.2.3.2	TABLE: De	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	ry output	- 4	4-	<b>-</b>	* - *	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 Lam	P + Y	N/A 🔨
Description	Values	Energy Source Classification
Lamp type		—
Manufacturer		—
Cat no		—
Pressure (cold) (MPa)		MS_

STS221107001001E Report No. IEC/EN 62368-1 Requirement + Test Verdict Clause **Result - Remark** Pressure (operating) (MPa) MS Operating time (minutes) Explosion method .....: Max particle length escaping enclosure (mm) .: MS Max particle length beyond 1 m (mm)..... MS Overall result ..... Supplementary information:

B.2.5	TABLE: Inp	ut test		- 5		~	. [	Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/statu	ls
5.0Vdc	2.604	3	13.02		5		Empty battery charge. Batter 2.141A	-
5.0Vdc	2.589	3	12.945		4		Empty battery EUT running. I current: 0.796/	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		×		Р
Ambient tem	perature (°C)		5		:	See below		_
Power source	e for EUT: Ma	anufacturer	, model/type,	output rating	×-	-	1	
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse currer (A)		Temp. (°C)	Observatio n
Speaker	S-C	4.4	10mins					Speaker shut down and other function as normal operation NO damaged on hazards.



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	IEC/EN 62368-1										
Clause	Requirement + Test		Result - Remark	×	Verdict						
Supplemen	tary information:	<u> </u>	×	5							

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						Р
Ambient temper	ature (°C)			0	<b>?</b> :	23.0-25.	0		
Power source for	or EUT: Manufac	cturer, 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. (°C)	Obser	vation
R33	S-C	5	10					Normal wor recoverable damage, no	, no
R0128	S-C	5	10					Normal wor recoverable damage, no	, no
C219	S-C	5	10					Unit Shut do and recover damage no	able, no
C43	S-C	5	10					Unit Shut do and recover damage no	able, no
R33	S-C	4.4	10					Normal wor recoverable damage, no	, no
R0128	S-C	4.4	10					Normal wor recoverable damage, no	, no
C219	S-C	4.4	10					Unit Shut do and recover damage no	able, no
C43	S-C	4.4	10					Unit Shut do and recover damage no	able, no
	1	1	-	-	L	1			

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	Red	quirement -	+ Test		Ste	Result	- Remark		X	Verdict
Annex M	ТА	BLE: Batte	eries					- 4		Р
The tests o	f Ann	ex M are a	pplicable o	only when ap	propriate b	attery data	is not avail	able		
Is it possibl	le to ii	nstall the b	attery in a	reverse pola	rity position	ı?	:			
		Non-rec	chargeable	batteries		R	echargeabl	e batteries		
		Discha	arging	Un- intentional	Char	ging	Disch	arging		versed arging
		Meas. current	Manuf. Specs.	charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. curren during norr condition		1	-4	-	2141mA	5000mA	2557mA	7000mA		
Max. curre during fault condition		S.Ct	-Arit		3200mA (U6105 PinC6-A3 sc)	5000mA	3015mA (U25 PinD4-A1 sc)	7000mA	AN IN	4
Test results	3:		4	~~~~				*		Verdict
- Chemical		*	<u> </u>	•					Š –	NO
- Explosion	of the	e battery				~			X	NO
			Ision of m	olten metal	2			,	5	NO
	ropat	h tests of e	auinment	after comple	tion of tests		4			

なが			x s		<u> </u>		
	TABLE: A batteries	dditional sa	feguards for equ	uipment c	ontaining second	lary lithium	P
Battery/Cell No.		Test	conditions		Observation		
				U	I (A)	Temp (°C)	
1		Normal		4.4	2.141	52.3	No damaged, no hazard.
2	2	Abnormal (after drop test)		4.4	2.142	52.8	No damaged, no hazard.
3	3	Single fault –SC/OC		4.4	3.200	53.1	No damaged, no hazard.
Supplementa	ary Informat	ion: SC = s	hort circuit.	7	·		4 4
identification		arging at T _{lowest} (°C)	Observati	on	Charging at _{Thighest} (°C)	Obs	servation

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IEC/EN 62368-1 Verdict Clause Requirement + Test **Result - Remark** Charging at Observation Charging at Observation Battery Tlowest Thighest identification (°C) (°C) Li-ion battery 0 When the temperature of 60 When the temperature of the the battery body reaches battery body reaches 60°C, 0°C ,charge current: 0A 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) N								
Note: Measu	red UOC (V) with all lo	ad circuits discor	nnected:		4			
Output	Components	U _{oc} (V)	Isc	(A)	S (VA)			
Circuit			Meas.	Limit	Meas.	Limit		
	- Ser I			5				
Supplementa	ary Information:		5		1			

N/A

T.2, T.3, T.4, T.5	TABLE: S	Steady force test	t at a	STOR A	4	P
Part/Loc	cation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Top of enclos	sure	Metal	* - *	100N	5	No damaged, no hazard
Bottom of en	closure	Metal	-	100N	5	No damaged, no hazard
Side of enclosure		sure Metal		100N	5	No damaged, no hazard
Supplementa	ary informa	ition:	5			<u> </u>

Т.6, Т.9 ТАЕ	BLE: Impact tests		2		N/A		
Part/Location	Material	Thickness (mm)	Vertical distance (mm)		Observa	ition	
*	N SN	7	4	1		×	
			2		×	Ster.	2
Supplementary in	formation:	2		. [			

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Report No. STS221107001001E IEC/EN 62368-1 Requirement + Test Result - Remark Verdict Clause T.7 **TABLE: Drop tests** Ρ Part/Location Thickness **Drop Height** Observation Material (mm) (mm) Top enclosure Metal 1000 No damage,no hazard ---Side enclosure 1000 Metal No damage, no hazard --bottom enclosure Metal 1000 No damage, no hazard --Supplementary information:

Т.8	TAB	LE: Stress relief to	est			N/A
Part/Locat	ion	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
				2		1 5
Supplementa	ary inf	ormation:				



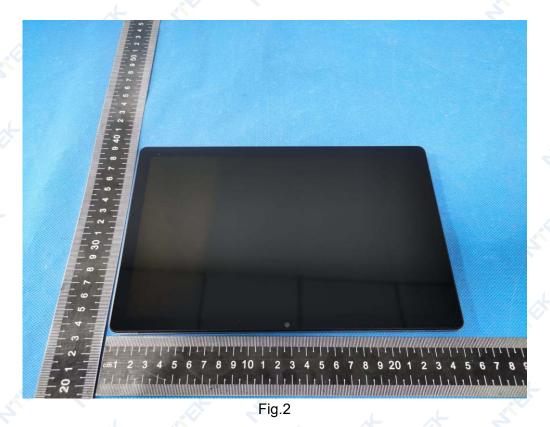
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#### Attachment1 – Photo Documentation



Fig.1



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Fig.3



Fig.4

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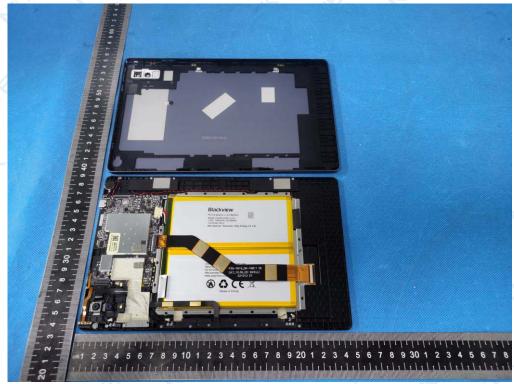
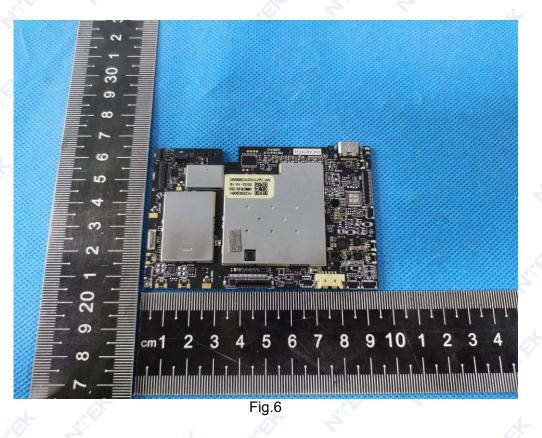


Fig.5



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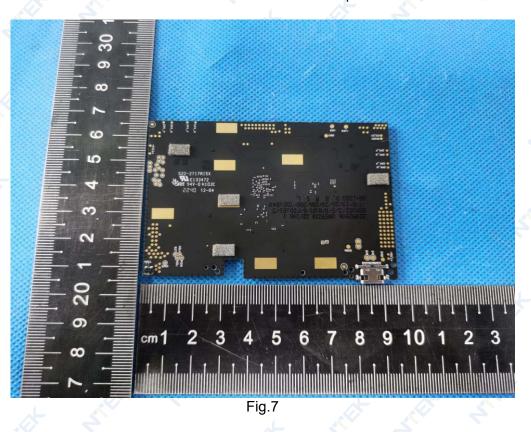




Fig.8

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