

TEST REPORT

Report No.: STS200604001001E

Product: Mobile Phone

Model No.: BV6300Pro

Applicant: DOKE COMMUNICATION (HK) LIMITED

RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD

Address : WANCHAI HK

Issued by: Shenzhen NTEK Testing Technology Co., Ltd.

Lab 1/F, Building E, Fenda Science Park, Sanwei Community,

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TEST REPORT IEC/EN 62368-1

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

Report Number:	STS200604001001E
Tested by (name + signature)	Keny Fu Ceny Fu Helen Lin Jebulin
Approved by (name + signature)	Helen Lin Jebulin
Date of issue:	2020-06-24
Testing Laboratory	Shenzhen NTEK Testing Technology Co., Ltd.
Address	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China
Applicant's name:	DOKE COMMUNICATION (HK) LIMITED
Address::	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK
Test specification:	
Standard:	☐IEC 62368-1:2014 (Second Edition) ☐ EN 62368-1:2014+A11:2017
Test procedure:	CE Scheme
Non-standard test method:	N/A
Test Report Form No:	IEC62368_1B
Test Report Form(s) Originator :	UL(US)
Master TRF:	2014-03
	em for Conformity Testing and Certification of Electrotechnical EE), Geneva, Switzerland. All rights reserved.
Test Item description	Mobile Phone
Trade Mark	Blackview
Manufacturer	Shenzhen DOKE Electronic Co., Ltd
Manufacturer address	8th floor, building 3, hanhaida science and technology innovation park, yulv village, guangming new district, shenzhen city, guangdong province
Model/Type reference	BV6300Pro
Ratings	Input: 5VDC, 2A



TEST ITEM PARTICULARS:	
Classification of use by:	 ☑ Ordinary person ☐ Instructed person ☐ Skilled person ☑ Children likely to be present
Supply Connection :	☐ AC Mains ☐ DC Mains ☑ External Circuit - not Mains connected - ☑ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +2 <u>5</u> %/- <u>15</u> % ☑ None
Supply Connection – Type:	□ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ mating connector □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector
Considered current rating of protective device as part of building or equipment installation:	N/A (Not directly connected to mains) Installation location:
Equipment mobility	
Over voltage category (OVC):	☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: (Not directly connected to mains)
Class of equipment:	☐ Class II ☐ Class III
Access location	☐ restricted access location ☐ N/A
Pollution degree (PD)	☐ PD 1
Manufacturer's specified maxium operating ambient:	<u>35</u> °C
IP protection class	
Power Systems	☐ TN ☐ TT ☐ IT - <u>230</u> V _{L-L}
Altitude during operation (m)	☑ 2000 m or less ☐ <u>5000</u> m
Altitude of test laboratory (m):	☐ 2000 m or less
Mass of equipment (kg):	☑ approx. 0.229kg



POSSIBLE TEST CASE VERDICTS:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Date of receipt of test item:	2020-06-15
Date (s) of performance of tests:	2020-06-15 to 2020-06-22

GENERAL PRODUCT INFORMATION:

Product Description -

- -The maximum operating temperature is 35°C.
- -A power source unit with output rating 5VDC, 2A was used during the tests.

The unit shall be charged by approved external approved adapter according to IEC/EN 62368-1 and meet LPS requirements. The external power adapter rated parameter is "input: AC 100V-240V, 50/60Hz, 0.6A; output: DC 5/7/9V, 2A, DC 12V, 1.5A".

- -Information of battery pack:
 - Highest specified charging temperature: 60°C
 - Lowest specified charging temperature: 0°C
 - Maximum specified charging current: 4.0A
 - Maximum specified charging voltage: 4.4VDC

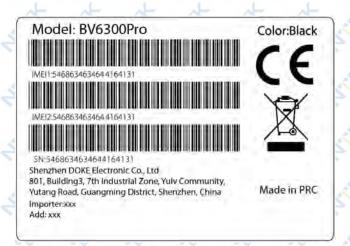
Model Differences - Designation model is different only.

- N/A

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

- N/A

Copy of marking plate:



Remark:

- -The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.
- -The CE marking and WEEE symbol (if any) should be at least 5.0 mm and 7.0 mm respectively in height.
- -The manufacturer and importer detail information are showed in instructions.



ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.)

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

Electrically-caused injury (Clause 5):

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

classification)

Example: +5 V dc input ES₁

Source of electrical energy	Corresponding classification (ES)				
Internal circuits	ES1 AV AV AV				
Type C input port	ES1				

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification)

Example: Battery pack (maximum 85 watts):

Source of power or PIS	Corresponding classification (PS)			
Internal circuits	PS1			
Battery pack/cell output	PS2(Resistive PIS)			

Injury caused by hazardous substances (Clause 7)

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

Example: Liquid in filled component Glycol

Source of hazardous substances	Corresponding chemical		
Battery	Complied with annex M		

Mechanically-caused injury (Clause 8)

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

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

Thermal burn injury (Clause 9)

(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.)

Example: Hand-held scanner - thermoplastic enclosure TS1

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

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

Type of radiation	Corresponding classification (RS)			
LED & & & & &	RS1			



Report No. STS200604001001E							
Acoustic	E IDENTIFICA	TION AND CLAS	SSIFICATION RS1	TABLE:	A- A-		1
Acoustic	KI KI	ENERGY	SOURCE DI	AGRAM	0 80	47 .	<i>(U</i>)
Indicate which en	ergy sources a	re included in the	energy source	e diagram. In	sert diagram	below	
7 7 4	7,	7, 7,	Zi.	7, 7,	4	4 4	
at at		ES 🔀 PS	⊠ MS	⊠ TS	⊠ RS	at .	4
Remark: N/A	, F.	4 4	L - L	7. 4.	, L	4 4	
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of at	at at	At A	t act	A CO	of not	A CO	0
4 4	7	4 4	5.	5 5	5	4 4	



Clause	Possible Hazard				
5.1	Electrically-caused injury				
Body Part	Energy Source		Safeguards		
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary person, Skilled person	ES1: Internal circuits ES1: Type C input port	N/A	N/A	N/A	
6.1	Electrically-caused fire				
Material part	Energy Source		Safeguards		
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced	
Internal combustible material/ internal plastic enclosure	PS1: Internal circuits PS2: Battery pack/cell	1, No ignition occurred. 2, No parts exceeding 90% of its spontaneous ignition temperature.	1, PCB is complied with V-0 material. 2, All other components: at least V-2 except for mounted on V-0 material or small parts of combustible material. 3, V-0 enclosure used	N/A to the total to the total	
7.1	Injury caused by hazardous	s substances			
Body Part	Energy Source	Safeguards			
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced	
Battery pack	Complied with annex M	N/A	N/A	N/A	
8.1	Mechanically-caused injury	,			
Body Part	Energy Source	Safeguards			
(e.g. Ordinary)	(MS3: High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary person, Skilled person	MS1: Sharp edges and corners of accessible parts	N/A	N/A	N/A	
Ordinary person, Skilled person	MS1: Product mass	N/A	N/A	N/A	
9.1	Thermal Burn				
Body Part (e.g., Ordinary)	Energy Source (TS2)				
NV NV NV N		Basic	Supplementary	Reinforced	
Ordinary person, Skilled person	TS1: Accessible parts	N/A	N/A	N/A	



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

Supplementary Information:

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



5 5	IEC/EN 62368	-K	4 4
Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	at at at at	P
4.1.2	Use of components	(See appended table 4.1.2)	P
4.1.3	Equipment design and construction	* * * *	P
4.1.15	Markings and instructions	(See Annex F)	P
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)	P
4.4.4.4	Impact tests:	15 15 15 15	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	No such enclosure and barrier	N/A
4.4.4.6	Glass Impact tests:	Surface area not exceeding 0.1m ²	N/A
4.4.4.7	Thermoplastic material tests:	(See Annex T.8)	P
4.4.4.8	Air comprising a safeguard:	Considered, but no such barrier or enclosure provided	N/A
4.4.4.9	Accessibility and safeguard effectiveness	All safeguards remain effective	Р
4.5	Explosion	20 20 20 20	P
4.6	Fixing of conductors		Р
4.6.1	Fix conductors not to defeat a safeguard	A A A A	P
4.6.2	10 N force test applied to:	5 5 5 5	P
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:	4 4 4 4	N/A
4.7.3	Torque (Nm):	2 2 2 2	N/A
4.8	Products containing coin/button cell batteries	No coin/button cell batteries used	N/A
4.8.2	Instructional safeguard	5 5 5 5	N/A
4.8.3	Battery Compartment Construction	الم الم الم	N/A
3. S.	Means to reduce the possibility of children removing the battery:	Tion Tion Tion Tion	_
4.8.4	Battery Compartment Mechanical Tests:	* * * *	N/A
4.8.5	Battery Accessibility	21 21 21 21 21	N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	(See Annex P)	P



IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5	ELECTRICALLY-CAUSED INJURY		Р
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits		Р
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	P
5.2.2.3	Capacitance limits:		N/A
5.2.2.4	Single pulse limits:	No single pulse introduced	N/A
5.2.2.5	Limits for repetitive pulses:	No repetitive pulses introduced	N/A
5.2.2.6	Ringing signals:	No means for connection to telephone network and no ringing signal generated	N/A
5.2.2.7	Audio signals:	4 4 4	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	A A A A	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	* * * * *	N/A
5.3.2.2	Contact requirements		N/A
4	a) Test with test probe from Annex V:		N/A
NO A	b) Electric strength test potential (V):	19 19 19 19	N/A
4 4	c) Air gap (mm):	5 5 5 5	N/A
5.3.2.4	Terminals for connecting stripped wire	4 4 4	N/A
5.4	Insulation materials and requirements	7 7 7 7	P
5.4.1.2	Properties of insulating material	4 4 4 4	P
5.4.1.3	Humidity conditioning:	5 5 5 5	N/A
5.4.1.4	Maximum operating temperature for insulating materials:	4 4 4 4	P
5.4.1.5	Pollution degree:	4 4 4 4	_
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	10 10 10 10	N/A
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions	10 10 10 10	N/A
5.4.1.7	Insulation in circuits generating starting pulses	2 2 2 2	N/A
5.4.1.8	Determination of working voltage		N/A
5.4.1.9	Insulating surfaces	4. 4. 4. 4.	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	A A A A	N/A



IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.10.3	Ball pressure:	* * * * * * *	N/A
5.4.2	Clearances	N N N N	N/A
5.4.2.2	Determining clearance using peak working voltage		N/A
5.4.2.3	Determining clearance using required withstand voltage		N/A
4	a) a.c. mains transient voltage	d d d d	
5 5	b) d.c. mains transient voltage:	21 21 21 21 21	_
*	c) external circuit transient voltage:	* * * *	_
10 1	d) transient voltage determined by measurement:	10 10 10 10	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	4 4 4	N/A
5.4.2.5	Multiplication factors for clearances and test voltages:		N/A
5.4.3	Creepage distances:	10 10 10 10	N/A
5.4.3.1	General	5 5 5 5	N/A
5.4.3.3	Material Group:	1 1 1 1	
5.4.4	Solid insulation	2, 2, 2, 2,	N/A
5.4.4.2	Minimum distance through insulation:	0 0 0 0	N/A
5.4.4.3	Insulation compound forming solid insulation	21 21 21 21	N/A
5.4.4.4	Solid insulation in semiconductor devices	* * * *	N/A
5.4.4.5	Cemented joints	10 10 10 10 10	N/A
5.4.4.6	Thin sheet material	AL AL AL AL	N/A
5.4.4.6.1	General requirements	A TO TO TO	N/A
5.4.4.6.2	Separable thin sheet material	5 5 5 5	N/A
A .	Number of layers (pcs):	1 1 1 1	N/A
5.4.4.6.3	Non-separable thin sheet material	7. 7. 7. 7.	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:	10 10 10 10	N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz:	4 4 4 4	N/A
5.4.5	Antenna terminal insulation	No such terminal	N/A
5.4.5.1	General	2 2 2 2	N/A
5.4.5.2	Voltage surge test	* * * *	N/A
1 1	Insulation resistance (MΩ):	4 4 4 A	_



	IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
5.4.6	Insulation of internal wire as part of supplementary safeguard:	d d d d	N/A	
5.4.7	Tests for semiconductor components and for cemented joints	* * * * *	N/A	
5.4.8	Humidity conditioning	31 31 31 31	N/A	
4	Relative humidity (%)	at at at at	_	
19 1	Temperature (°C):	70 70 70 70	—	
4	Duration (h):	6 6 6 6	_	
5.4.9	Electric strength test:	0 0 0 0	N/A	
5.4.9.1	Test procedure for a solid insulation type test	2 2 2 2	N/A	
5.4.9.2	Test procedure for routine tests	0 0 0 0	N/A	
5.4.10	Protection against transient voltages between external circuit	No transient voltage from external circuit	N/A	
5.4.10.1	Parts and circuits separated from external circuits	19 19 19 19	N/A	
5.4.10.2	Test methods	5 5 5 5	N/A	
5.4.10.2.1	General	1 1 1 1	N/A	
5.4.10.2.2	Impulse test	7, 7, 7, 7,	N/A	
5.4.10.2.3	Steady-state test	d d d d	N/A	
5.4.11	Insulation between external circuits and earthed circuitry:	No such external circuit	N/A	
5.4.11.1	Exceptions to separation between external circuits and earth		N/A	
5.4.11.2	Requirements	* * * *	N/A	
100	Rated operating voltage U _{op} (V)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	
1	Nominal voltage U _{peak} (V)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	—	
19 1	Max increase due to variation U _{sp} :	10 10 10 10		
4 4	Max increase due to ageing ΔU_{sa} :	5 5 5 5	_	
4	U_{op} = U_{peak} + ΔU_{sp} + ΔU_{sa}	0 0 0 0	_	
5.5	Components as safeguards	2 2 2 2	2 4	
5.5.1	General	d d d d	N/A	
5.5.2	Capacitors and RC units	2 2 2 2	N/A	
5.5.2.1	General requirement	* * * *	N/A	
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	21	N/A	
5.5.3	Transformers	1 1 1 1	N/A	
5.5.4	Optocouplers	2 2 2 2	N/A	



IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.5.5	Relays	* * * *	N/A
5.5.6	Resistors	4 4 4 4	N/A
5.5.7	SPD's		N/A
5.5.7.1	Use of an SPD connected to reliable earthing	19 19 19 19	N/A
5.5.7.2	Use of an SPD between mains and protective earth	4 4 4 4	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	3 3 3 3	N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors	4. 4. 4. 4.	N/A
5.6.2.1	General requirements	0 0 0 0	N/A
5.6.2.2	Colour of insulation	2, 2, 2, 2,	N/A
5.6.3	Requirement for protective earthing conductors	* * * *	N/A
1	Protective earthing conductor size (mm²)	2" 2" 2" 2"	
5.6.4	Requirement for protective bonding conductors	L L L L	N/A
5.6.4.1	Protective bonding conductors	19 19 19 19	N/A
5 5	Protective bonding conductor size (mm²)	6 6 6 6	
5.6.4.2	Protective current rating (A):	1 1 1 1 1	_
5.6.4.3	Current limiting and overcurrent protective devices	* * * * *	N/A
5.6.5	Terminals for protective conductors	20 20 20 20	N/A
5.6.5.1	Requirement		N/A
31 ⁽¹⁾ 3	Conductor size (mm²), nominal thread diameter (mm).	310 310 310 310	N/A
5.6.5.2	Corrosion	* * * *	N/A
5.6.6	Resistance of the protective system		N/A
5.6.6.1	Requirements	A A A A	N/A
5.6.6.2	Test Method Resistance (Ω)	19 19 19 19	N/A
5.6.7	Reliable earthing	6 6 6 6	N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A
5.7.2	Measuring devices and networks	4 4 4 4	N/A
5.7.2.1	Measurement of touch current	0 0 0 0	N/A
5.7.2.2	Measurement of prospective touch voltage	21 21 21 21	N/A
5.7.3	Equipment set-up, supply connections and earth connections	4 4 4 4	N/A



2 2	IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
2 7	2 2 2 2 2 2	6 6 6 6	5 5	
ATT.	System of interconnected equipment (separate connections/single connection)	at at at at	_	
*	Multiple connections to mains (one connection at a time/simultaneous connections)	* * * * *	_	
5.7.4	Earthed conductive accessible parts	74 74 74 74	N/A	
5.7.5	Protective conductor current	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
19	Supply Voltage (V)	70 70 70 70	_	
	Measured current (mA)	5 5 5 5	_	
10	Instructional Safeguard		N/A	
5.7.6	Prospective touch voltage and touch current due to external circuits	* * * * *	N/A	
5.7.6.1	Touch current from coaxial cables	40 40 40 40	N/A	
5.7.6.2	Prospective touch voltage and touch current from external circuits	A A A A	N/A	
5.7.7	Summation of touch currents from external circuits	No such external circuits	N/A	
5 C	a) Equipment with earthed external circuits Measured current (mA):		N/A	
at	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	A A A A	N/A	

6	ELECTRICALLY- CAUSED FIRE		.√P
6.2	Classification of power sources (PS) and potential i	gnition sources (PIS)	P
6.2.2	Power source circuit classifications	at at at at	OP-
6.2.2.1	General	21, 21, 21, 21,	S P S
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	P
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	P
6.2.2.4	PS1	A A A A	QP.
6.2.2.5	PS2:	(See appended table 6.2.2)	P Z
6.2.2.6	PS3:	* * * *	N/A
6.2.3	Classification of potential ignition sources	3" 3" 3" 3"	P
6.2.3.1	Arcing PIS	* * * *	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	P
6.3	Safeguards against fire under normal operating and	d abnormal operating conditions	P
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)	STOP S



IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.3.1 (b)	Combustible materials outside fire enclosure	* * * *	N/A
6.4	Safeguards against fire under single fault conditions	The tip tip tip	Р
6.4.1	Safeguard Method	Method of control fire spread used	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	5" 5" 5" 5" 5"	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	A A A A	N/A
6.4.3.1	General	5 5 5 5	N/A
6.4.3.2	Supplementary Safeguards	A A A A	N/A
7 4	Special conditions if conductors on printed boards are opened or peeled	2 2 2 2 2 x	N/A
6.4.3.3	Single Fault Conditions:	10 10 10 10	N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits	10 10 10 10	N/A
6.4.5	Control of fire spread in PS2 circuits	5 5 5 5	P
6.4.5.2	Supplementary safeguards:	PCB: V-0; Fire enclosure used: V-0	P
6.4.6	Control of fire spread in PS3 circuit	* * * *	N/A
6.4.7	Separation of combustible materials from a PIS	10 10 10 10	P
6.4.7.1	General ::	Fire enclosure used: V-0	Р
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	5 5 5 5	P
6.4.8	Fire enclosures and fire barriers	A A A A	.⊘P
6.4.8.1	Fire enclosure and fire barrier material properties	Fire enclosure provided	P
6.4.8.2.1	Requirements for a fire barrier	* * * *	P
6.4.8.2.2	Requirements for a fire enclosure	V-0 used.	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	# # # #	P
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	d d d d	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	No opening	N/A
A A	Needle Flame test		N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	* * * * *	N/A
£100 Z	Flammability tests for the bottom of a fire enclosure	The Tile Tile Tile	N/A



	IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	at at at at	N/A	
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	Fire enclosure used: V-0	PP	
6.5	Internal and external wiring	3" 3" 3" 3"	Р	
6.5.1	Requirements	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P	
6.5.2	Cross-sectional area (mm²):	(See appended table 4.1.2)	_	
6.5.3	Requirements for interconnection to building wiring:	4 4 4 4	N/A	
6.6	Safeguards against fire due to connection to additional equipment	2 4 4 4	P	
100	External port limited to PS2 or complies with Clause Q.1	A LA LA LA	P	

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		P
7.2	Reduction of exposure to hazardous substances	No such hazardous substances	N/A
7.3	Ozone exposure	No ozone production	N/A
7.4	Use of personal safeguards (PPE)	,L ,L ,L ,L	N/A
147	Personal safeguards and instructions:	10 10 10 10	_
7.5	Use of instructional safeguards and instructions	5 5 5 5	N/A
4	Instructional safeguard (ISO 7010)	A A A A	_
7.6	Batteries	(See appended tables Annex M)	P P =

8	MECHANICALLY-CAUSED INJURY		3 P 3
8.1	General	* * * *	P
8.2	Mechanical energy source classifications		P
8.3	Safeguards against mechanical energy sources	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Р
8.4	Safeguards against parts with sharp edges and corners	AND AND AND AND	P
8.4.1	Safeguards	MS1 classification	N/A
8.5	Safeguards against moving parts	2" 2" 2" 2"	SN/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	d d d d	N/A
8.5.2	Instructional Safeguard:	7 7 7 7	_
8.5.4	Special categories of equipment comprising moving parts	A LA LA LA	N/A



IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.1	Large data storage equipment	* * * * *	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	41 41 41 41	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	4 4 4	N/A
8.5.4.2.2	Instructional safeguards against moving parts	2 2 2 2	N/A
0	Instructional Safeguard:	at at at at	_
8.5.4.2.3	Disconnection from the supply	21 21 21 21	N/A
8.5.4.2.4	Probe type and force (N)	* * * *	N/A
8.5.5	High Pressure Lamps	10 10 10 10 10	N/A
8.5.5.1	Energy Source Classification		N/A
8.5.5.2	High Pressure Lamp Explosion Test:	P P P P	N/A
8.6	Stability	Mass < 7kg	N/A
8.6.1	Product classification	MS1	N/A
4 4	Instructional Safeguard:	2 2 2 2	_
8.6.2	Static stability	0 0 0 0	N/A
8.6.2.2	Static stability test	2 2 2 2	N/A
of	Applied Force	d d d d	_
8.6.2.3	Downward Force Test	2, 2, 2, 2,	N/A
8.6.3	Relocation stability test	* * * *	N/A
1100	Unit configuration during 10° tilt:	The the tile tile	_
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force):	A A A A	N/A
4 4	Position of feet or movable parts:	5 5 5 5	_
8.7	Equipment mounted to wall or ceiling		N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	* * * * *	N/A
8.7.2	Direction and applied force	A A A A A	N/A
8.8	Handles strength		N/A
8.8.1	Classification	10 10 10 10	N/A
8.8.2	Applied Force	5 5 5 5	N/A
8.9	Wheels or casters attachment requirements	0 0 0 0	N/A
8.9.1	Classification	2, 2, 2, 2,	N/A
8.9.2	Applied force	at at at at	_
8.10	Carts, stands and similar carriers	7, 7, 7, 7,	N/A



4 4	IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
8.10.1	General	* * * * *	N/A	
8.10.2	Marking and instructions		N/A	
4	Instructional Safeguard:	at at at at		
8.10.3	Cart, stand or carrier loading test and compliance		N/A	
3 4	Applied force	444	_	
8.10.4	Cart, stand or carrier impact test	0 0 0 0	N/A	
8.10.5	Mechanical stability	7, 7, 7,	N/A	
.0	Applied horizontal force (N):	0 0 0 0	_	
8.10.6	Thermoplastic temperature stability (°C):	7 7 7	N/A	
8.11	Mounting means for rack mounted equipment	0 0 0 0	N/A	
8.11.1	General	71 21 21	N/A	
8.11.2	Product Classification	* * * *	N/A	
8.11.3	Mechanical strength test, variable N:	10 10 10 10	N/A	
8.11.4	Mechanical strength test 250N, including end stops	L L L	N/A	
8.12	Telescoping or rod antennas		N/A	
2 5	Button/Ball diameter (mm):	4 4 4	_	

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

10	RADIATION		PP
10.2	Radiation energy source classification	A A A A	.√P
10.2.1	General classification	7, 7, 7, 7,	P Z
10.3	Protection against laser radiation	* * * *	N/A
317 2	Laser radiation that exists equipment:	21 21 21 21	_
+	Normal, abnormal, single-fault	comply with RS1	P
100	Instructional safeguard	10 10 10 10	_
	Tool	By tool	_
10.4	Protection against visible, infrared, and UV radiation	LED system unit used.	Y P



2 4	IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
10.4.1	General — — — — — — — — — — — — — — — — — — —	* * * *	Р	
10.4.1.a)	RS3 for Ordinary and instructed persons:	The the the the	N/A	
10.4.1.b)	RS3 accessible to a skilled person:		N/A	
51 ⁽¹⁾ 2	Personal safeguard (PPE) instructional safeguard		_	
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	LED system unit comply with RS1	P	
10.4.1.d)	Normal, abnormal, single-fault conditions:	Exempt group	Р	
10.4.1.e)	Enclosure material employed as safeguard is opaque	4 4 4 4	N/A	
10.4.1.f)	UV attenuation:	7. 7. 7. 7.	N/A	
10.4.1.g)	Materials resistant to degradation UV	4 4 4 4	N/A	
10.4.1.h)	Enclosure containment of optical radiation:	21 21 21 21	N/A	
10.4.1.i)	Exempt Group under normal operating conditions	Exempt group	P	
10.4.2	Instructional safeguard	5 5 5 5	N/A	
10.5	Protection against x-radiation		N/A	
10.5.1	X- radiation energy source that exists equipment:		N/A	
ot	Normal, abnormal, single fault conditions	* * * *	N/A	
3 ¹ 3	Equipment safeguards	30 30 30 30	N/A	
4	Instructional safeguard for skilled person:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
10.5.3	Most unfavourable supply voltage to give maximum radiation		_	
0	Abnormal and single-fault condition:	* * * *	N/A	
31 3	Maximum radiation (pA/kg):	Z' Z' Z' Z'	N/A	
10.6	Protection against acoustic energy sources	* * * *	P	
10.6.1	General		Р	
10.6.2	Classification	RS2	Р	
10 ×	Acoustic output, dB(A):	Maximum volume: Right: 90.1dB; Left: 90.7dB warning: Right: 77.2dB; Left: 77.8 dB	A THE	
	Output voltage, unweighted r.m.s:	Maximum volume: Right: 104.3mV; Left: 104.1mV Pre-set: Right: 3.5mV; Left: 3.4mV Warning: Right: 22.6mV; Left: 22.5mV	P P P	
10.6.4	Protection of persons		Р	



	IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	Instructional safeguards:	1. Symbol ;	Total .		
The state of	at at at at at at	2. "high sound pressure" or equivalent wording; 3. "hearing damage risk" or equivalent wording; 4. "do not listen at high volume levels for long periods" or equivalent wording.	ALCO .		
7 5	Equipment safeguard prevent ordinary person to RS2:	Automatically return to RS1 level when the power is switched off.	_		
310 31	Means to actively inform user of increase sound pressure:	Warning: hearing damage risk or equivalent wording	_		
ANT A	Equipment safeguard prevent ordinary person to RS2	After 20h the acoustic output not exceeding RS1	_		
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	No such device	N/A		
10.6.5.1	Corded passive listening devices with analog input	2 2 2 2	N/A		
30 3	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output:	50 50 50 50	_		
10.6.5.2	Corded listening devices with digital input	* * * *	N/A		
110	Maximum dB(A):	310 310 310 310	_		
10.6.5.3	Cordless listening device	A- A- A- A-	N/A		
A A	Maximum dB(A):	19 19 19 19	_		

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		SEP 3
B.2	Normal Operating Conditions	* * * *	Р
B.2.1	General requirements:	(See summary of testing & appended test tables)	P
A.C.	Audio Amplifiers and equipment with audio amplifiers:	A A A A	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)	P
B.3	Simulated abnormal operating conditions	4 4 4 4	PP
B.3.1	General requirements:	(See appended table B.3)	.⊘P
B.3.2	Covering of ventilation openings	2 2 2 2	N/A
B.3.3	D.C. mains polarity test	* * * *	N/A
B.3.4	Setting of voltage selector:	No such voltage selector.	N/A



IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
D 0 5	NACCIONAL LO CALLANDA ANTICOLO	No alvels Assumable 1	1 1/4
B.3.5	Maximum load at output terminals	No such terminals	N/A
B.3.6	Reverse battery polarity	No battery reverse polarity	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	A A A A	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	z, z, z, z,	T 7.
B.4	Simulated single fault conditions	10 10 10 10 10	P
B.4.2	Temperature controlling device open or short-circuited:	d d d 0	N/A
B.4.3	Motor tests	2 2 2 2	₹ P
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature:	A A A A	N/A
B.4.4	Short circuit of functional insulation	4 4 4 4	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	, OP
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р,
B.4.4.3	Short circuit of functional insulation on coated printed boards	STO STO STO STO	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	t of
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	P
B.4.7	Continuous operation of components	A A A A	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	7 7 7 7	P ·
B.4.9	Battery charging under single fault conditions:	(See appended table M)	P

С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV No UV radiation	No UV radiation within the EUT.	N/A
C.1.2	Requirements	10 10 10 10	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test	10 10 10 10	N/A
C.2.1	Test apparatus	2 2 2 2	N/A
C.2.2	Mounting of test samples	15 15 15 15	N/A
C.2.3	Carbon-arc light-exposure apparatus	7, 4, 4, 4,	N/A
C.2.4	Xenon-arc light exposure apparatus	* * * *	N/A



5	IEC/EN 62368-1				
Claus	e Requirement + Test	Result - Remark	Verdict		
D	TEST GENERATORS		N/A		
D.1	Impulse test generators	40 30 30 30 40	N/A		
D.2	Antenna interface test generator	at at at at	N/A		
D.3	Electronic pulse generator	A B B B	N/A		
E	TEST CONDITIONS FOR EQUIPMENT CONTAINII	NG AUDIO AMPLIFIERS	N/A		
E.1	Audio amplifier normal operating conditions ((See appended table B.2.5)	N/A		
7	Audio signal voltage (V)	7. 4. 4. 4.	_		
0	Rated load impedance (Ω):	0 0 0 0			
E.2	Audio amplifier abnormal operating conditions	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N/A		

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	P
F.1	General requirements		Р
19	Instructions – Language	English checked	_
F.2	Letter symbols and graphical symbols	6 6 6 6	PP
F.2.1	Letter symbols according to IEC60027-1	1 1 1 1	.√P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	4 4 4 4 A	4 P 4
F.3	Equipment markings	20 20 20 20	P
F.3.1	Equipment marking locations		P
F.3.2	Equipment identification markings	20 20 20 20	AP .
F.3.2.1	Manufacturer identification	See marking plate	_
F.3.2.2	Model identification	See marking plate	_
F.3.3	Equipment rating markings	5 5 5 5	N/A
F.3.3.1	Equipment with direct connection to mains	* * * *	N/A
F.3.3.2	Equipment without direct connection to mains	Equipment without direct connection to mains	N/A
F.3.3.3	Nature of supply voltage	A A A A	_
F.3.3.4	Rated voltage	5 5 5 5	_
F.3.3.4	Rated frequency:	4 4 4 4	_
F.3.3.6	Rated current or rated power:	2 2 2 2	_
F.3.3.7	Equipment with multiple supply connections	No multiple supply connection.	N/A
F.3.4	Voltage setting device	No such device.	N/A
F.3.5	Terminals and operating devices	****	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings:	No mains appliance outlet.	N/A



	IEC/EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
F.3.5.2	Switch position identification marking:	Not such switch.	N/A
F.3.5.3	Replacement fuse identification and rating markings	Provided the user manual.	N/A
F.3.5.4	Replacement battery identification marking:	Provided the user manual.	ΔP
3.5.5	Terminal marking location	2 2 2 2	N/A
F.3.6	Equipment markings related to equipment classification	A A A A	N/A
F.3.6.1	Class I Equipment	5 5 5 5	N/A
F.3.6.1.1	Protective earthing conductor terminal	1 1 1 1 1	N/A
3.6.1.2	Neutral conductor terminal	5 5 5 5	N/A
3.6.1.3	Protective bonding conductor terminals	d d d d	N/A
=.3.6.2	Class II equipment (IEC60417-5172)	2 2 2 2	N/A
F.3.6.2.1	Class II equipment with or without functional earth	* * * *	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	Ziv Ziv Ziv Ziv	N/A
F.3.7	Equipment IP rating marking:	IP20, no marking is needed	_
F.3.8	External power supply output marking	2, 2, 2, 2,	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	A THE THE PARTY OF
F.4	Instructions	* * * *	Р
3100 21	a) Equipment for use in locations where children not likely to be present - marking	THE THE THE THE	N/A
4	b) Instructions given for installation or initial use	4 4 4 4	P
7,	c) Equipment intended to be fastened in place	2 2 2 2	N/A
At .	d) Equipment intended for use only in restricted access area	Not used in restricted access area.	N/A



4	IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
1.01 3	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	Side Side Side Side	N/A		
*	f) Protective earthing employed as safeguard	* * * *	N/A		
\$ ¹⁰ 2	g) Protective earthing conductor current exceeding ES2 limits	4" 4" 4" 4"	N/A		
4	h) Symbols used on equipment	15 15 15 15	.√P		
*	i) Permanently connected equipment not provided with all-pole mains switch	4. 4. 4. 4.	N/A		
3 ⁽⁰⁾ 3	j) Replaceable components or modules providing safeguard function	5th 5th 5th 5th	N/A		
F.5	Instructional safeguards	* * * *	P		
ابر ج	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	at at at at	P &		

G	COMPONENTS		Р
G.1	Switches	10 10 10 10 10	N/A
G.1.1	General requirements		N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.2	Relays	4 4 4 4	N/A
G.2.1	General requirements	D D D D	N/A
G.2.2	Overload test	2 2 2 2	N/A
G.2.3	Relay controlling connectors supply power	* * * *	N/A
G.2.4	Mains relay, modified as stated in G.2	24 24 24 24	N/A
G.3	Protection Devices		
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)	at at at at	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	21 21 21 21	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	3/0 3/0 3/0 3/0	N/A
G.3.2	Thermal links	* * * *	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal link used.	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
A A	Aging hours (H)		_
5 5	Single Fault Condition:	5 5 5 5	_



IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
*	Test Voltage (V) and Insulation Resistance (Ω). :	* * * *	_	
G.3.3	PTC Thermistors		N/A	
G.3.4	Overcurrent protection devices		N/A	
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A	
G.3.5.1	Non-resettable devices suitably rated and marking provided	4 4 4 4	N/A	
G.3.5.2	Single faults conditions:	21, 21, 21, 21,	N/A	
G.4	Connectors	* * * *	N/A	
G.4.1	Spacings	Not directly connected to mains	N/A	
G.4.2	Mains connector configuration		N/A	
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A	
G.5	Wound Components	* * * *	N/A	
G.5.1	Wire insulation in wound components:	40 40 40 40	N/A	
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	A A A A	N/A	
G.5.1.2 b)	Construction subject to routine testing	2 2 2 2	N/A	
G.5.2	Endurance test on wound components	d d d d	N/A	
G.5.2.1	General test requirements	3" 3" 3" 3"	N/A	
G.5.2.2	Heat run test	* * * * *	N/A	
14 1	Time (s):	A A A A	_	
	Temperature (°C)		_	
G.5.2.3	Wound Components supplied by mains	19 19 19 19	N/A	
G.5.3	Transformers	2 2 2 2	N/A	
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	SAT SAT SAT	N/A	
4	Position:	at at at at	_	
10 1	Method of protection:	19 19 19 19	_	
G.5.3.2	Insulation		N/A	
A S	Protection from displacement of windings:	A A A A		
G.5.3.3	Overload test:	4 4 4 4	N/A	
G.5.3.3.1	Test conditions	4 4 4	N/A	
G.5.3.3.2	Winding Temperatures testing in the unit	2 2 2 2	N/A	
G.5.3.3.3	Winding Temperatures - Alternative test method	* * * *	N/A	
G.5.4	Motors	The State State	Р	



IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
G.5.4.1	General requirements	* * * * *	P	
1 1 P	Position	10 10 10 10	_	
G.5.4.2	Test conditions		N/A	
G.5.4.3	Running overload test	10 10 10 10 10	N/A	
G.5.4.4	Locked-rotor overload test	5 5 5 5	N/A	
A .	Test duration (days):	A A A A	_	
G.5.4.5	Running overload test for d.c. motors in secondary circuits	* * * * * *	N/A	
G.5.4.5.2	Tested in the unit	4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
	Electric strength test (V)		_	
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	200 200 200 200 E	N/A	
4	Electric strength test (V)	* * * *		
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	21 21 21 21 X	Р	
G.5.4.6.2	Tested in the unit	A A A A	ÆΡ	
7. 5	Maximum Temperature	(See appended table B.4)	N/A	
0	Electric strength test (V)	0 0 0 0	N/A	
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	2 2 2 2	N/A	
A A	Electric strength test (V)		N/A	
G.5.4.7	Motors with capacitors	4 4 4 4	N/A	
G.5.4.8	Three-phase motors	0 0 0 0	N/A	
G.5.4.9	Series motors	2, 2, 2, 5,	N/A	
4	Operating voltage:	* * * *	_	
G.6	Wire Insulation	31 31 31 31	N/A	
G.6.1	General	* * * *	N/A	
G.6.2	Solvent-based enamel wiring insulation	10 10 10 10	N/A	
G.7	Mains supply cords	4 4 4 4	N/A	
G.7.1	General requirements	Not directly connected to mains	N/A	
5	Type:	4 4 4 4		
4	Rated current (A)	A A A A	_	
3, 5,	Cross-sectional area (mm²), (AWG):	2 2 2 2	_	
G.7.2	Compliance and test method	* * * *	N/A	
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		N/A	



7 7	IEC/EN 62368-		4 6
Clause	Requirement + Test	Result - Remark	Verdict
G.7.3.2	Cord strain relief	* * * * *	N/A
G.7.3.2.1	Requirements	10 10 10 10 10	N/A
L	Strain relief test force (N):		_
G.7.3.2.2	Strain relief mechanism failure	D D D D	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	5 5 5 5	_
G.7.3.2.4	Strain relief comprised of polymeric material	1 1 1 1 1	N/A
G.7.4	Cord Entry:	2 2 2 2	N/A
G.7.5	Non-detachable cord bend protection	0 0 0 0	N/A
G.7.5.1	Requirements	21 21 21 21	N/A
G.7.5.2	Mass (g):	* * * *	_
3 3	Diameter (m)	N N N N	_
J	Temperature (°C)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
G.7.6	Supply wiring space	10 10 10 10	N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors	4 4 4 4	N/A
G.8.1	General requirements	No varistors used.	N/A
G.8.2	Safeguard against shock	2 2 2 2	N/A
G.8.3	Safeguard against fire	* * * *	N/A
G.8.3.2	Varistor overload test	31 31 31 31	N/A
G.8.3.3	Temporary overvoltage	* * * *	N/A
G.9	Integrated Circuit (IC) Current Limiters	No. No. No. No.	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No such IC used.	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:	4 4 4 4	_
G.9.1 d)	IC limiter output current (max. 5A)	A A A A	_
G.9.1 e)	Manufacturers' defined drift:	2 2 2 2	_
G.9.2	Test Program 1	d d d d	N/A
G.9.3	Test Program 2	31 31 31 31	N/A
G.9.4	Test Program 3	* * * *	N/A
G.10	Resistors	10 10 10 10	N/A
0.40.4	General requirements		N/A
G.10.1	General requirements		10/7



1	IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	set set set set	N/A	
G.10.3.1	General requirements	* * * *	N/A	
G.10.3.2	Voltage surge test		N/A	
G.10.3.3	Impulse test	4 4 4	N/A	
G.11	Capacitor and RC units	10 10 10 10	N/A	
G.11.1	General requirements	No such components used	N/A	
G.11.2	Conditioning of capacitors and RC units	1 1 1 1 1	N/A	
G.11.3	Rules for selecting capacitors	7 7 7	N/A	
G.12	Optocouplers	d d d d	N/A	
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)		N/A	
31 31	Type test voltage Vini	5 5 5 5	_	
*	Routine test voltage, Vini,b:	* * * *	_	
G.13	Printed boards	10 10 10 10 10	Р	
G.13.1	General requirements		Р	
G.13.2	Uncoated printed boards	10 10 10 10	P	
G.13.3	Coated printed boards	5 5 5 5	N/A	
G.13.4	Insulation between conductors on the same inner surface	30 30 30 30 30	N/A	
de la	Compliance with cemented joint requirements (Specify construction)	# # # #	_	
G.13.5	Insulation between conductors on different surfaces	* * * * *	N/A	
d" d	Distance through insulation	N N N N N	N/A	
4	Number of insulation layers (pcs):			
G.13.6	Tests on coated printed boards	10 10 10 10	N/A	
G.13.6.1	Sample preparation and preliminary inspection	4 4 4 4	N/A	
G.13.6.2a)	Thermal conditioning	A A A A	N/A	
G.13.6.2b)	Electric strength test	7. 7. 4. 4.	N/A	
G.13.6.2c)	Abrasion resistance test	* * * * *	N/A	
G.14	Coating on components terminals	21 21 21 21	N/A	
G.14.1	Requirements	* * * *	N/A	
G.15	Liquid filled components	10 10 10 10	N/A	
G.15.1	General requirements		N/A	



4 4	IEC/EN 62368-	4 4	4 4	3 4 4
Clause	Requirement + Test	R	esult - Remark	Verdict
G.15.2	Requirements	4	* * *	N/A
G.15.3	Compliance and test methods	110	W 100	N/A
G.15.3.1	Hydrostatic pressure test			N/A
G.15.3.2	Creep resistance test	10	0 0	N/A
G.15.3.3	Tubing and fittings compatibility test	5 5	5 4	N/A
G.15.3.4	Vibration test	4	A A	N/A
G.15.3.5	Thermal cycling test	F. F.	4 4	N/A
G.15.3.6	Force test	4	4 4	N/A
G.15.4	Compliance	3 3	30	N/A
G.16	IC including capacitor discharge function (ICX)	+	* *	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	4. C	- Zill -	N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage:	ALIE &	A A	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	at	at at	N/A
C2)	Test voltage:	5 3	4 4	_
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	Sill S	at sidt a	N/A
D2)	Capacitance:	*	* *	大 -
D3)	Resistance	110	7 17	

Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		
H.1	General		N/A
H.2	Method A	A A A A	N/A
H.3	Method B	2 2 2 2	N/A
H.3.1	Ringing signal	A A A A	N/A
H.3.1.1	Frequency (Hz)	2, 4, 4, 4,	_
H.3.1.2	Voltage (V)	* * * * *	_
H.3.1.3	Cadence; time (s) and voltage (V)	21 21 21 21	_
H.3.1.4	Single fault current (mA):	* * * *	_
H.3.2	Tripping device and monitoring voltage:	30 30 30 30	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	* * * *	N/A
H.3.2.2	Tripping device	2, 2, 2, 2,	N/A



5 5	IEC/EN 62368-	4 4 4 4	4
Clause	Requirement + Test	Result - Remark	Verdict
H.3.2.3	Monitoring voltage (V)	4 4 4 4	

J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		
24 1	General requirements	M M M M	N/A
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	No safety interlocks inside the EUT	N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):		N/A
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test:		N/A

L	DISCONNECT DEVICES	N/A
L.1	General requirements	N/A
L.2	Permanently connected equipment	N/A
L.3	Parts that remain energized	N/A
L.4	Single phase equipment	N/A
L.5	Three-phase equipment	N/A
L.6	Switches as disconnect devices	N/A
L.7	Plugs as disconnect devices	N/A
L.8	Multiple power sources	N/A

М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS	
M.1	General requirements	Р



	IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
M.2	Safety of batteries and their cells		Р		
M.2.1	Requirements		Р		
M.2.2	Compliance and test method (identify method):	Provided by the manufacture	Р		
M.3	Protection circuits		Р		
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:	(See appended table M.4)	_		
M.4.2.2 b)	Single faults in charging circuitry	(See appended table M.4)	_		
M.4.3	Fire Enclosure	Fire enclosure provided	Р		
M.4.4	Endurance of equipment containing a secondary lithium battery		Р		
M.4.4.2	Preparation		Р		
M.4.4.3	Drop and charge/discharge function tests		Р		
	Drop		Р		
	Charge		Р		
	Discharge		Р		
M.4.4.4	Charge-discharge cycle test		Р		
M.4.4.5	Result of charge-discharge cycle test		Р		
M.5	Risk of burn due to short circuit during carrying	See appended table B.4	Р		
M.5.1	Requirement		Р		
M.5.2	Compliance and Test Method (Test of P.2.3)		Р		
M.6	Prevention of short circuits and protection from other effects of electric current	See appended table B.4	Р		



IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdic	
M.6.1	Short circuits	~ ~ ~ ~	Р	
M.6.1.1	General requirements		Р	
M.6.1.2	Test method to simulate an internal fault		Р	
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method):		N/A	
M.6.2	Leakage current (mA):		N/A	
M.7	Risk of explosion from lead acid and NiCd batteries		N/A	
M.7.1	Ventilation preventing explosive gas concentration		N/A	
M.7.2	Compliance and test method		N/A	
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A	
M.8.1	General requirements		N/A	
M.8.2	Test method		N/A	
M.8.2.1	General requirements		N/A	
M.8.2.2	Estimation of hypothetical volume Vz (m³/s):		_	
M.8.2.3	Correction factors:			
M.8.2.4	Calculation of distance d (mm):		_	
M.9	Preventing electrolyte spillage		N/A	
M.9.1	Protection from electrolyte spillage		N/A	
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 include battery charging, storage and transportation, and disposal and recycling.	Р	

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

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

P	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS		Р
P.1	General requirements	No opening	Р
P.2.2	Safeguards against entry of foreign object	No safeguards requirement.	N/A



4 2	IEC/EN 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
2	Location and Dimensions (mm)	2 2 2 2	2 5		
D 0 0	` ,		-		
P.2.3	Safeguard against the consequences of entry of foreign object		N/A		
P.2.3.1	Safeguards against the entry of a foreign object		N/A		
	Openings in transportable equipment		N/A		
	Transportable equipment with metalized plastic parts:		N/A		
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A		
P.3	Safeguards against spillage of internal liquids		N/A		
P.3.1	General requirements		N/A		
P.3.2	Determination of spillage consequences		N/A		
P.3.3	Spillage safeguards		N/A		
P.3.4	Safeguards effectiveness		N/A		
P.4	Metallized coatings and adhesive securing parts		N/A		
P.4.2 a)	Conditioning testing		N/A		
	Tc (°C):		_		
	Tr (°C)		_		
	Ta (°C):		_		
P.4.2 b)	Abrasion testing		N/A		
P.4.2 c)	Mechanical strength testing		N/A		

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	See appended table Annex Q.1	N/A
Q.1.1 c)	Overcurrent protective device limited output		N/A
Q.1.1 d)	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method		N/A
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A)		_
	Current limiting method		_



. 4	IEC/EN 623	68-1	4 4
Clause	Requirement + Test	Result - Remark	Verdict

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

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



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

U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION	
U.1	General requirements	N/A
U.2	Compliance and test method for non-intrinsically protected CRTs	N/A
U.3	Protective Screen	N/A



- Page 36 of 61 -Will Will

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A STATE OF THE PARTY OF THE PAR	ŇŦ	- Page 36 of 61 -	AT A	ALL SE			
A COL	Report No. STS200604001001E IEC/EN 62368-1						
NO.	Clause	Requirement + Test Result - Remark	Verdict	act of			
T.	V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)	Р	*			

Clause	Requirement + Test	Result - Remark	Verdict
V	DETERMINATION OF ACCESSIBLE PARTS (FIN	NGERS, PROBES AND WEDGES)	P
V.1	Accessible parts of equipment		Р
V.2	Accessible part criterion	//2 //2 //2 //2	Р
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2 .	5 6 6	4	EN 62368-1	5 6	5	5	4 4
Clause	Requirement + Test	10	A A	Result - Remark	10	10	Verdict

ATTACHMENT TO TEST REPORT IEC 62368-1 DENMARK NATIONAL DIFFERENCES

Audio/video, information and communication technology equipment -

Part 1: Safety requirements

 Differences according to
 DS/EN 62368-1:2014

 Attachment Form No
 DK_ND_IEC62368_1B

 Attachment Originator
 UL (Demko)

 Master Attachment
 2014-10

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.0	National Differences	.05	.05	.05	.0	.€P	
4.1.15	To the end of the subclause the following is added:	N. A.	2	2 st	2 st	N/A	Š
\$ <	Class I pluggable equipment type A intended for connection to other equipment or a network shall, if a fet v relies on connection to relies and contains	\$1°	4° ×	Zi.v	7 th	Zi.	-
300	if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have	3.00	3	2	2	- ·	25
STORY &	a marking stating that the equipment shall be connected to an earthed mains socket-outlet.	3.00	Z. C.	Z.O.	Zill.	3107	-1
Sill a	The marking text in the applicable countries shall be as follows:	SIGH	STON	3.0	Sillt	STOP .	4
ANT .	"Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."	a cut	and t	A CONT	, at	A THE	
5.2.2.2	After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	N. Cot	A. Cot	A. Cot	N.C.	N/A	1
5.6.1	Add to the end of the subclause:	1	0	1	and the	N/A	
S. C.	Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets	N.C.T	TO T	A. Cot	4	A COL	
	the protection for pluggable equipment type A shall be an integral part of the equipment.	A COL	A. Ot	NOT.	A. Cot	A. Cit	7
A S	Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	P. Ot	P. Ot	2 at	2.Ct	P. Ot	2



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\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	EN 6236		4 4	4 4
Clause	Requirement + Test	Resi	ult - Remark	Verdict
5.7.5	To the end of the subclause the following is	+ * *	+ * *	N/A
3 ¹⁰ 3	added: The installation instruction shall be affixed to t	ne ziii ziiii	21" 21"	21° 2
*	equipment if the protective conductor current	+ + 1	+ 4 +	*
5.7.6.2	exceeds the limits of 3,5 mA a.c. or 10 mA d.c. To the end of the subclause the following is	2 20	2 2	N/A
d	added: The warning (marking safeguard) for high touch	h d	t at at	at
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.0	protective current exceed the limits of 3,5 mA.	t 10 0	t at at	
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7 7	EN 62368-1	7	6 6	7	7	1
Clause	Requirement + Test	10	Result - Remark	10	Verdict	t
G.4.2	To the end of the subclause the following is added:	THE THE PERSON NAMED IN	At At	P. C.	P	7
And A	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	A A	ALE ALE	Tiet to	A STREET	7
	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance	A COL	AND AND	A THE	A TOTAL	3
410t 45	with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase	richt.	THE THE	F. C.	ALIENT .	1
	equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	S. C.	AND AND	A THE	ALIENT .	100
Sill S	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	in the	And And	A COL	ALC:	100
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	STORT STORT	21.07 21.07 21.07 21.07	ALIENT .	Sigt.	11.
Stat &	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	at at	stat stat	A CH	N.C.	100
4 4 4 A	Justification: Heavy Current Regulations, Section 6c	15° X	41" 41"V	Ziiv A	3111	1



5 5	EN 62368-1	4 4 4 4	4 4
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 62368-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

Differences according to: EN 62368-1:2014

Attachment Form No.: EU_GD_IEC62368_1B

Attachment Originator....: Intertek Semko AB

Master Attachment: Date (2015-08)

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10 1	CENELEC COMMON MODIFICATIONS (EN)	110	1	1	110	P
1 7	NOTE Z1		-	-	-	N/A
4.Z1	Protective devices included as integral parts of the equipment or as parts of the building installation:	N. C.	N.C.	N. C.	N. C.	Zich Zi
大	a) Included as parts of the equipment	1	1	1	水	P
2" Z"	b) For components in series with the mains; by devices in the building installation	25	7.1	7.1	7,1	N/A
ACT A	c) For pluggable type B or permanently connected; by devices in the building installation	10	10	10	10	N/A
5.4.2.3.2.4	Interconnection with external circuit		_	-	4	N/A
10.2.1	Additional requirements in 10.5.1	1	1	1	1	N/A
10.5.1	RS1 compliance measurement conditions	1	11	1	11	N/A
10.6.2.1	EN 71-1:2011, 4.20 and methods and distances		-			N/A
10.Z1	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	100	10	10	10	N/A
G.7.1	NOTE Z1				-	N/A

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS	(EN)	1	110	11	P	1
4.1.15	Denmark, Finland, Norway and Sweden:		-	1	1	N/A	-
45	Class I pluggable equipment type A marking	4	4	4	4	4	
4.7.3	United Kingdom:	10	11/1	10	11	<^N/A	1
	Torque test socket-outlet BS 1363, and the plug		7	7	7		-
0	part BS 1363.	0	1	0	0	0	
5.2.2.2	Denmark:	1	10	11	11	N/A	1
	Warning for high touchcurrent	~	7	-	7		1
5.4.11.1	Finland and Sweden:	65	4	05	45	N/A	
and	Separation of the telecommunication network	15	11	1	11	15	1
Annex G	from earth		7	7	7		-
5.5.2.1	Norway:	0	05	05	0	N/A	
1 1	Capacitors rated for the applicable line-to-line	14	11	15	11	11	15
	voltage (230 V).		-	7	~		7



	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.5.6	Finland, Norway and Sweden: Resistors used as basic safeguard or bridging basic insulation comply with G.10.1 and G.10.2.	Sit sit sit si	N/A
5.6.1	Denmark: Protection for pluggable equipment type A; integral part of the equipment	set set set se	N/A
5.6.4.2.1	Ireland and United Kingdom: The protective current rating is taken to be 13 A	A A A A	N/A
5.6.5.1	Ireland and United Kingdom: Conductor sizes of flexible cords to be accepted by terminals for equipment rated 10 A to 13 A		N/A
5.7.5	Denmark: The installation instruction affixed to the equipment if high protective conductor current	2 2 2 2 2 At At At A	N/A
5.7.6.1	Norway and Sweden: Television distribution system isolation text in user manual		N/A
5.7.6.2	Denmark: Warning for high touch current	2 2 2 2	N/A
B.3.1 and B.4	Ireland and United Kingdom: Tests conducted using an external miniature circuit breaker or protective devices included as an integral part of the direct plug-in equipment		N/A
G.4.2	Denmark: Appliances rated ≤13 A provided with a plug according to DS 60884-2-D1:2011.		P
. C 2	Class I equipmentprovided with socket-outlets provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.		F
STEP S	If a single-phase equipment having rated >13 A or poly-phase equipment provided with a supply cord with a plug, plug in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	* * * * * * * * * * * * * * * * * * *	+ 3.01
sigt s	Mains socket outlets intended for providing power to Class II apparatus rated 2,5 A in accordance with DS 60884-2-D1:2011 standard sheet DKA 1-4a.	and and and and	t State
Z''' Z'	Other current rating socket outlets in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	The Till Till Till	A
STOT S	Mains socket-outlets with earth in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	Silt silt silt silt	S. Cot
G.4.2	United Kingdom: The plug part of direct plug-in equipment assessed to BS 1363	self self self self	N/A



AND I		Report No. STS200604001001E	114
5	EN 62368-1	4 4 4 4	4 4
Clause	Requirement + Test	Result - Remark	Verdict
G.7.1	United Kingdom: Equipment fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768		N/A
G.7.1	Ireland: Apparatus provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use		N/A
G.7.2	Ireland and United Kingdom: A power supply cord for equipment which is rated over 10 A and up to and including 13 A.	sid sid sid sid	N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	* * * *	₽.
10.5.2	Germany: Cathode ray tube intended for the display of visual images, authorization or application of type approval and marking.		N/A
F.1	Italy: The power consumption in Watts (W) indicated on TV receiver and in instruction for use	Set set set set	N/A
STOP .	TV receivers provided with an instruction for use, schematic diagrams and adjustments procedure in Italian language.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
of	Marking for controls and terminals in Italian language.	d d d d	N/A
3	Conformity declaration according to the above requirements in the instruction manual	2 2 2 2	N/A
sint ?	First importers of TV receivers manufactured outside EEC previous conformity certification to the Italian Post Ministry and Certification number on the backcover.		N/A



0 0	IEC 62368-1	at at at at	A 1
Clause	Requirement + Test	Result - Remark	Verdict

Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
PCB S	Tripod (Wuxi) Electronic Co Ltd	2-9	V-0, 130°C	UL 796	UL 3
Alternative	Interchangeable	Interchangeable	V-0, 130°C	UL 796	UL
Lithium ion polymer battery	Shenzhen Hua Tian Tong Technology Co., Ltd	DK018	3.85Vdc, 4380mAh	IEC/EN 62133- 2:2017	ORT Test report No.: ORTSZ200 420020002
-Cell	Shenzhen Hua Tian Tong Technology Co., Ltd	476279	3.85Vdc, 4380mAh	IEC/EN 62133- 2:2017	ORT Test report No.: ORTSZ200 420020002
Switching Adapter	SHEN ZHEN HUAJIN ELECTRONICS CO., LTD.	HJ-FC017K7- EU	Input: 100-240V~, 50/60Hz, 0.6A Output:5/7/9VDC, 2A, 12VDC, 1.5A	IEC/EN 62368-1	TUV SUD CB test report no.: 211- 21190215- 000
LCD panel	JIANGXI HOLITECH TECHNOLOGY CO., LTD.	HTF057H238	5.7"	IEC/EN 62368-1	Tested with appliance
Flash LED	Everlight Electronics Co., Ltd.	ELCH Series	DC350mA, Risk Group 1 (EN 62471) Exempt Group (IEC 62471)	IEC 62471: 2006 EN 62471: 2008	TUVRheinland Report No.: 10031507 001
Speaker	Interchangeable	Interchangeable	0.8Watts, 8 ohm ± 15% at 1000Hz	IEC/EN 62368-1	Tested with appliance
Vibration motor	Interchangeable	Interchangeable	Rated Voltage: DC 3.0V, 85mA max. Rated Speed 10000 rpm Min	IEC/EN 62368-1	Tested with appliance
Plastic Enclosure	SABIC INNOVATIVE PLASITCS B V	EXRL0246 (GG) DMX9455 (GG)	80°C, V-0, 1.5mm thickness Min.	UL 94	UL E45329

Supplementary information:

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



d 0	EN 62368-1	d d d d	1
Clause	Requirement + Test	Result - Remark	Verdict

//>	45 45	AS AS AS		7 72
(The follow	wing mechanica	al tests are conducted in the sec	juence noted.)	
4.8.4.2	TABLE: St	ress Relief test		_
	Part	Material	Oven Temperature (°C)	Comments
4	- 7	7 7 7	5 6 6 6	2- 4
4.8.4.3	TABLE: Ba	attery replacement test	15 15 15 15 1	_
Battery pa	art no		2 2 2 2	_
Battery In	stallation/witho	drawal	Battery Installation/Removal Cycle	Comments
5	. 3.	5 5 5 .	2 2 2 2 2	3 3
+	1	* * *	L 1 2 1	+ 7+
W B	W A	10 10 10	3	7 19
4	7	4 4 4	4	7-7
Ø .	AT 15	AT AT AT	5 0	7 4
-	4	7, 7, 7, 4	6	2- 4
ot.	ot of	at at at	8	* A
- L'	7.1	21 21 21 6	2 29 2 2	2-2
4	* *	* * *	10	* *
.8.4.4	TABLE: Dro	op test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
mpact Ar	rea	Drop Distance	Drop No.	Observations
. 3	- 3	5 5 - 5 6	5 2 21 2 2	Z- Z
4	d	d d d	2 2	* #
	- 2	2 7 - 2 6	2 23 2 2	3- 3
1.8.4.5	TABLE: Im	pact	4 4 4 4	_
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments
*	* *	* * *	* * * * *	* *
1.8.4.6	TABLE: Cr	rush test	30 30 30 30 3	_
Test position Surface tested		Surface tested	Crushing Force (N)	Duration force applied (s)
1001				appiloa (o)



of of	EN 62368-1	4 4 4 4	A 1
Clause	Requirement + Test	Result - Remark	Verdict

4.8.5 TABLE: Lith	nium coin/button cell batteries mechanical test result							4	N/A	
Test position Surface tested			Force (N)				Duration force applied (s)			
~ ~ ~	4	<u>ب</u>	1	1	1	7	1		-	T- \
Supplementary informatio	n:	10	140	14	147	147	100	14		9

5.2	<i>5</i> / <i>5</i>	V N	electrical energy	source	s	4	1	.45	P	
5.2.2.	.2 – Steady Sta	ite Voltage and C	urrent conditions							
						Par	ameters			
No.	Supply Voltage	Location (e.g. circuit designation)	Test condition	ns	U (Vrms Vpk		l (Apk or Arms)	Hz	ES Class	
	4 4	4 4	Normal	Normal		7	4	5 -	ES1	
4	DC5V	of of	Abnormal:	4	- C		-0		(declaration	
	2 4	7, 4	Single fault:			4	4	5 -	n)	
5.2.2.	3 - Capacitanc	e Limits								
	Supply	Location (e.g.	_ ,	Parameters				E0.6:		
No.	Voltage circuit designation)		Test conditions Ca		apacitance, nF		Upk (V)		ES Class	
	2 2	2, 5	Normal:		<u> </u>	2	3	<u>-5</u>	<u> </u>	
4	d	de de de		at at at			.ct	- 4	d-	
- AL	4 4	1 3 4 3 A	Single fault: SC/OC	4	<u>ئے۔</u>	4	4 4 A		\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
5.2.2.	4 - Single Puls	es								
	Supply	Location (e.g.				Param	eters			
No.	Voltage	circuit designation)	Test conditions	Durat	ion (ms) Upk (V)		(V)	lpk (mA)	ES Class	
> /	4 4	6 6	Normal		5	7 -	7	4-	5 4	
1	- O-	4 At	Abnormal	4	- 4	-Q-	- 4	-	- A-	
✓	4 4	+ + +	Single fault – SC/OC	1	4	4	2	- A	4 4	
5.2.2.	5 - Repetitive F	Pulses								
	Supply	Location (e.g.				Param	eters		F0.0	
No.	Voltage	circuit designation)	Test conditions	Off tim	ne (ms) Upk ((V) Ipk (mA)		ES Class	
	2		Normal				_	-		



0 0	4 4	OF OEN	N 62368-	1	4	.0	4	at .	4
Clause	Requirement + Test			5	Result - Remark			Verdi	ct
A A	A LOT	Abnormal	-	100	, 4	- P	10	Total Control	1
4 4	- 2 + 2 + 3	Single fault – SC/OC	4- Ct	P of	S.	- A.	S. A.	e ot	2

Test Conditions:

Normal -

Abnormal -

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

The prospective touch voltage was measured when the flash device was ignited.

5.4.1.4, 6.3.2, 9.0, B.2.6	ABLE: Thermal requirements	y Test	A PA	F THE	, di	- 1	P
S	upply voltage (V):	Condition 1	Condition 2	Condition 3	L		_
A	mbient T _{min} (°C):	See below	See below	See below	1		_
A	mbient T _{max} (°C):	See below	See below	See below	-		
A 1	ma (°C):	See below	See below	See below	1		
Maximum me part/at:	asured temperature T of			All	owed T _{max}		
PCB near U1	00 2 2 2	58.8	52.0	70.6	3	7	130
Battery body	- 4 4 4	53.2	46.1	59.8	7	Ref.	
Enclosure ins	ide near U100	48.8	45.6	62.7		3	Ref.
Ambient	* * * * /	35.0	35.0	35.0	7	+ +	
7 7 V	Touch t	emperature cl	ause 9.0	3.0	7.1	3	<u> </u>
Enclosure out	tside near U100	35.3	33.4	51.5	3.07	48	77 (for Wireless Charging)
Button	- * * *	35.0	32.4	42.3	7		48
Screen	10 10 10 1	36.4	34.0	45.4		48	
Adapter enclo	osure	44.8	\	- \- ₋	-4	77	
Ambient		25.0	25.0	25.0	150		<u> </u>

Supplementary information:

Condition 1: the most unfavorable 5V charging condition.

Condition 2: discharging full battery, normal operation.

Condition3: Wireless Charging condition.



A .0	+ 0 0 0	F .	EN 62368-	1	.0	.0	.0	4
Clause	Requiremen	nt + Test	7	3	Result	- Remark	7	Verdict
Temperature	T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allo wed T _{max} (°C)	Insulation class
- 7	4 4 4	1	7-	7	Z	-	7	4-4
Supplementa	ary information:	100	No.	10	10	10	10	

5.4.1.10.2 TABLE: Vicat softening temperature of the	ermoplastics N/A
Penetration (mm)	4 4 4 4 -
Object/ Part No./Material	Manufacturer/t T softening (°C)
	4 4 4 4
Supplementary information:	

5.4.1.10.3 TABLE: Ball p	5.4.1.10.3 TABLE: Ball pressure test of thermoplastics								
Allowed impression diameter	r (mm):	≤ 2 mm	¿ -						
Object/Part No./Material Manufacturer/trademark		Test temperature (°C)	Impression diameter (mr						
5" 3" 3" 3	- 3" 3" 3"	Zi Zi Zi	3" -3" 3						
Supplementary information:	* * *	+ + +	* * *						

	BLE: Minimum (Clearance	s/Creepa	ge distance	1	-	-	N/A
5.4.2.4 and 5.4.3	AT AT	A CONTRACTOR OF THE PARTY OF TH	A STATE OF THE PARTY OF THE PAR	A LA	T AUT	ALT.	ALT.	
Clearance (cl) ar distance (cr) at/o	nd creepage f/between:	Up (V)	U r.m.s. (V)	Frequency (kHz)#	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Basic/supplemen	itary insulation	<u> </u>	20	7, 7,	2	7,	2	7, 7,
-t 4	* *	*	+	1- 0	+ - 4	-	*	A- /
Reinforced insula	ation	35	31	317 317	21	21	Z'' .	31 31
-t t	* *	*	*	1- X	F - 4	· -+	*	4

Supplementary information:

(#) Frequencies above and below 30 kHz

Note 2: BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation.

^{*:} According to 5.4.1.8.1 i), the working voltage to determine minimun creepage distances was measured after the ignition of the lamp.



A-	AL AL AL AL	EN 62368-	7	4- 4-	مار در	<u></u>					
D 1		300 300	.0	, Q , Q	.40	0					
Clause	Requirement	+ Test	st Result - Rem			Verdict					
4		- A- A-	- A-	A A	-	4					
5.4.2.3	TABLE: Minimum Clearand	ces distances usin	g required	withstand volta	age	N/A					
-	Overvoltage Category (OV)	Overvoltage Category (OV):									
45	Pollution Degree:	15 15	4	A 15		AT .					
Clearance	distanced between:	Require withstand vo		Required cl (mm)	Measure	Measured cl (mm)					
Basic / sup	plementary insulation	100 100	1	14 14	114	1					
-4	at at at	AL 3L	-	AL AL	1	- 1					
Reinforced	insulation	141 141	10	19 19	14	14 1					
- 7	4 4 4	6 6	2	2 - 2	2 .	5 6					
Supplemen	ntary information:	0 0	A.	4 4	-0	4					
1. BI:	basic insulation; SI: suppleme	ntary insulation; DI:	double ins	ulation; RI: reinfo	orced insula	tion;					
大	* * * *	* * *	*	* *	*	*					
5.4.2.4	TABLE: Clearances based	on electric strengt	th test	10 10	1110	N/A					
Test voltage applied between:		Required cl (mm)		ltage (Kv) m.s. / d.c.	Breakdown Yes / No						
2 3	2 2 2	3 -3	3	<u> </u>	3	2 2					

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distand	ce through insulation	n measurem	ents_	sit sit	N/A
Distance thro	ough insulation	Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)
- 7	4 4	4-4	5- 4	3 2	4 - 4	4-4
Supplementa	ry information:	0 0 0		0 0	0 0	5 05 0

Supplementary information: Not used the alternative method to determine the clearances.

5.4.9	TABLE: Electric strength tests	* * *	* * *	- N/A
Test volta	age applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes/No
Function	al:	A A A	A A A	7 15 1
	2 4 4 4 4	44.	7. 4. 4.	4 4.
Basic/su	pplementary:	d d d	of of o	+ & .
<u> </u>	21 21 21 21 2	3"-3"	5 5 5	3- 3
Reinforce	ed: L	* * *	* * *	+ +
4	N 30 30 30 3	Y 3V - 3V	~ A A	



at at at	0	OF OF	N 62368-1	4	ot.	of a	*	d
Clause	Requirem	ent + Test	Result - Remark				5	Verdict
+ + +		4	4	4	4	<u>ا</u>	_	4
5.4.9 TABLE: Ele	ectric streng	th tests	14 1		A B	W A	4	N/A
Test voltage applied bety		Voltage shap (AC, DC)	е	Test vol	age (V)		eakdown Yes/No	
Routine Tests:	31 3	7,	31 31	Y	31 3	7.		3 3
- x x x	4	4	A=-	4	J	4	1	T- \
Supplementary informati	on:	Q 10	10 1	V	10 1	Ø 1.6	0	10
		-	4			-		
5.5.2.2 TABLE: Sto	ored dischar	ge on capacit	ors	Ø	4	4	0	N/A
Supply Voltage (V), Hz	Test Location	Operating Condition (N S)	(A)		Measured Voltage E (after 2 seconds)			ssification
	4 - 4	<u> </u>	4 -6	. 5			. 5	
Supplementary informat	ion:	0.0	.0 .		.0	0 4	25	.0
X-capacitors installed fo	r testing are:		2 2		3' 2'		-	
☐ bleeding resistor rat	ing:	x+ x+	1	4	*	4	1	4
☐ ICX:	A S	4 14	19		A B	4		A STATE OF
Notes:	5 5	5	5 5		5 5	4		
A. Test Location:	x	水水	*	*	4	1	*	*
Phase to Neutral; Phase	to Phase; Pl	hase to Earth;	and/or Neutral	to Ear	th	Y 1		A
B. Operating condition a	abbreviations	7	4 4	, 5	4	4	, 5	7
N – Normal operating co	ndition (e.g.,	normal operat	ion, or open fu	ise); S	–Single fau	It condition	*	1
OC Opened circuit	.1		1		1	.4		3

Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
7 7 7 7	£ £ .	5 2 3	- E	5. 5. 5	

5.7.2.2, TABLE: Earthed accessible conductive pa		N/A
Supply voltage:	* * * * /	_
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)
Measured to PE	7 71 7 7	N/A



0 0	EN C	62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
A 10		2*	<u>N/A</u>
, 4	7 7 7 7 7	3	N/A
15		4 4 4 4	N/A
7.	2 2 2 2 4	5 6 6	N/A
of of	of of of of	6 6	N/A
21	2" 2" 2" 2" 2" 2	2 2 8 2 2	N/A

Supplementary Information:

Notes:

- [1] Supply voltage is the anticipated maximum Touch Voltage
- [2] Earthed neutral conductor [Voltage differences less than 1% or more]
- [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3
- [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.
- [5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

N: Normal condition, R: Reverse condition.

Source	Description	Measureme	Measurement Max Power after		Max Power after 5 s*)	PS Classification	
51 251	5 5	Power (W)	:	31-31	3 3 3	· 30 3	
_ A&	Battery pack output	V _A (V)	:	* * *	*-*	PS2 (declaration)	
A TAI	paoritoarpar	I _A (A)	:	70- 70	20 - 20 B	(designation)	
	Battery	Power (W)	:		2 2 2		
B# .	pack output (B- to P-	V _A (V)	:	7 10- 10	A A	PS2 (declaration)	
, 4.	short circuit)	I _A (A)	:	4 - 4	4 5 4	(decidration)	
1 1	10 1	Power (W)	:		A - A	0 0	
C [#]	Battery cell	VA (V)	:	4 - 4	4 4 4	PS2 (declaration)	
A A	4	IA (A)	:	* * *	4-4	(docidion)	

Supplementary Information: SC: short circuit

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



STS200604001001E Report No.

of of of	d d d	N 62368-1	of of	of of
Clause	Requirement + Test	4 4	Result - Remark	Verdict
6.2.3.1 Table: Det	ermination of Potential Ig	nition Sources (Arc	ing PIS)	N/A
	Open circuit voltage After 3 s	Measured r.m.s	Calculated value	Arcing PIS?
Location	(Vp)	(Irms)	(V _p x I _{rms})	Yes / No
A A - A	A A - A	A - A	A -0 1	
Supplementary informat	ion:	7. 7.	7. 7. 7.	7. 7

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

6.2	6.2.3.2 Table: Determination of Potential Ignition Sources (Resistive PIS)								
C	Circuit Location (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No			
A	+ * *	* - *	<100_	>15	*-*	X- /			

Supplementary Information:

All internal circuits were considered as resistive PIS.

A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

8.5.5 TABLE: High Pressure Lamp	* * * *	N/A
Description	Values	Energy Source Classification
Lamp type:	4 4 4 4	_
Manufacturer:		_
Cat no:	4 4 4	_
Pressure (cold) (MPa)	4 4 4	MS_
Pressure (operating) (MPa)	7 7 7 6	MS_
Operating time (minutes)	* * *	_
Explosion method	31 31 31	_
Max particle length escaping enclosure (mm).:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MS_
Max particle length beyond 1 m (mm)	The Market Market	MS_
Overall result	4 4 4 4	5 4 4 4



et et	of of	.0	EN	62368-1	1	.0	0	4	4	
Clause	Requi	rement +	Test	4		Result	- Remark	4	Verdi	ct
A- A-	A- A-	4	1	1	4	4	1	4	4	
Supplementary inf	formation:	10	.47	40	20	20	20	10	.40	

B.2.5 TABLE: Input test P

U (V) I (A) Irated (A) P (W) P rated (W) Fuse No Ifuse (A) Condition/status

B.2.5	IABLE:	input test						P
U (V)	I (A)	Irated (A)	P (W)	P rated (W)	Fuse No	Ifuse (A)	Condition/	status
5.0	0.456	2	2.28	at - at	No.	Side of	Supply by extern source, full disch battery	7.5
5	1.294	2	6.47	of -int	A. C.	Side a	Charging by wire charger, full disc battery	
4.4	0.567	Ziet z	3.20	d - d	ALIENT A	Sill &	Discharging consupplied by fully battery with norm operation.	charged

B.3 TABLE: Abnormal operating condition tests Р See below Ambient temperature (°C): Power source for EUT: Manufacturer, model/type, output rating .: See cover page for details Observation Component Abnormal Supply Test Fuse Fuse T-couple Temp. voltage, current, (A) No. time no. (°C) Condition (ms)

Supplementary information: SC = short circuit.

B.4	B.4 TABLE: Fault condition tests									
Ambient temperature (°C) 25.0								_		
Power source for EUT: Manufacturer, model/type, output rating .: See cover page details						page for	_			
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation		
Charging with en	npty battery	4	4	-	4	5	5 4	4 4 4		
Battery	Overchar ge	5Vdc	7hrs	F - 3	7 4 C	A COL	ATTEN .	Unit was normal operation, no damaged, no hazard.		



at at	4	0 0	+ 0	EN 6236	8-1	- 4	4	4	4
Clause	\$ \$P	Requiremer	nt + Test	7	45	Result -	Remark	5	Verdict
Battery B- to P- (battery)	Short circuit, Overchar ge	5Vdc	7hrs		3.0	- A		Unit was operation damaged hazard.	n, no d, no
C1 (battery)	Short circuit	5Vdc	7hrs		+ -	- 10	Sut .	Unit shut immedia damaged hazard.	tely, no
R1 (battery)	Short circuit	5Vdc	7hrs	2		-	at the	EUT wor normal, r no hazar	no damage
Battery + to -	Short circuit	5Vdc	10mins			THE .	3.0	fire, no e	battery no xplosion akage, no
Speaker	Short circuit	5Vdc	10mins		- 10	AND .		and the second	n. No
Motor	Locked	5Vdc	7hrs			Zilli .	STORY .	EUT no i the wrap cheesecl	
Discharging with	full charged	battery	ابر ح		F 1	- *	*	*	*
Battery	Over- discharge	Fully battery	7hrs	<u> </u>	- A	Till a	ST.	Unit was operation damaged hazard.	n, no
Battery B- to P- (battery)	Short circuit, Over- discharge	Fully battery	7hrs			- Zillit		Unit was operation damaged hazard.	n, no
C1 (battery)	Short circuit	Fully battery	7hrs		-	and .	Sign .	Unit shut immedia damaged hazard.	tely, no
R1 (battery)	Short circuit	Fully battery	7hrs	7.0	7	4.0	S.O.	no hazar	n <mark>o damage</mark> ds.
Battery + to -	Short circuit	Fully battery	10mins	-110			Sight .	fire, no e	battery no xplosion akage, no



d .d	At .	d .d	0	EN 6236	68-1	- 4	.0	4	A 1
Clause		Requirement	+ Test	7	4	Resu	ılt - Remarl	4	Verdict
Speaker	Short circuit	Fully battery	10mins	7	7 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	A. C.	A THE		n. No
Motor	Locked	Fully battery	7hrs	7	1	200	3-	EUT no i the wrap cheesecl	

Supplementary information:

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

Annex M	TAI	BLE: Batt	eries	. 5	4	7	4 4	3 4	7	P
The tests o	f Anr	nex M are	applicable o	only when ap	opropriate b	attery data	is not ava	ilable	.0	.0
Is it possibl	e to i	nstall the l	oattery in a	reverse pola	arity position	1?	<u> </u>	No	3	- 4
		Non-red	chargeable	batteries	Rechargeable batteries					
	Ī	Discharging			Char	ging	Disch	arging	Reverse	d charging
		Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. currer during norn condition		- CT -	≤	4	369mA	4000mA	567mA	4000mA	Z	4
Max. currer during fault condition		A .	at 2	4	1458mA	4000mA	1620mA	4000mA	- 2	at a
	•									
Test results		4	4	0.		.0	.0	- TO	4	Verdict
- Chemical	leaks	<u> </u>	3 - 3	7,	7	2	2 4	-		NO 🧢
- Explosion	of th	e battery	大	* *	十十	*	*	*-	*	NO
- Emission	of fla	me or exp	ulsion of m	olten metal	3.0	3	31	<u></u>	3	NO
- Electric st	rengt	th tests of	equipment	after comple	tion of tests	1	٠ الـ	- J-	4	at-
Supplemen	itary	informatio	n V	Q ,Q	10	10	10	NO.	A J	Q 1

Annex M.4	Table: Additional safeguards for equipment containing secondary lithium	AP A
3, 5,	batteries	3 2



0 0	EN 6	2368-1	4
Clause	Requirement + Test	Result - Remark	Verdict

Battery/Cell No.		Test conditions		Measu	irements	Observation
			U (V)	I (A)	Temp (°C)	
1	4 4	Normal	4.4	0.369	Battery surface: 53.2 Ambient: 35.0	No damaged, no hazard.
100	20 4	Abnormal (after drop test)	4.4	0.369	Battery surface: 53.2 Ambient: 35.0	No damaged, no hazard.
	327 34	Single fault: C1 SC	4.4	1.458	Battery surface: 55.8 Ambient: 35.0	No damaged, no hazard.

Supplementary Information: SC = short circuit.

For battery cell:

Highest specified charging temperature: 60°C
 Lowest specified charging temperature: 0°C
 Maximum specified charging current: 4.0A
 Maximum specified charging voltage: 4.4V

-	Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
	Li-ion battery	0	Charging current: 0.369A	60	Charging current: 0A

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

Annex Q.1	TABLE: Circuits inte	ended for interco	onnection with b	ouilding wi	iring (LPS)	N/A
Note: Meas	ured UOC (V) with all lo	oad circuits disco	nnected:	- 4	4 4	4
Output	Components	U _{oc} (V)	I _{sc} (A	۸)	S (VA)
Circuit			Meas.	Limit	Meas.	Limit
- K	70-70		34- 34	1		1º- 1
-				<u> </u>	7	
D- 1	7 10-10	A - A	A- A	-40	Q - Q	A
Supplement	tary Information:	4 4	5 5	5	5 5	4 4

T.2, T.3, T.4, T.5	TABLE:	Steady for	ce test	7, 7,		÷	P
Part/L	ocation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation	



A A A	to. +	- 4	EN 6236	8-1	at at at	.0	
Clause	Red	uirement +	Test	3	Result - Remark		
Top of enclosure	-	12	100N	5	No damaged, no	o haz <mark>a</mark> rd	
Bottom of enclosure	3	7_	100N	5	No damaged, no	o hazard	
Side of enclosure	F 0	4	100N	5	No damaged, no hazard		
Supplementary inform	ation:	2	7. 4.	4	4. 4. 4.	4 4	

T.6, T.9 TAB	LE: Impact tests	10 310	710 710	N/A
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation
2. 4. 4	· 4. 4	. 4.	22.	4. 4. 4. 4. 4.
Supplementary info	ormation:	at at	d d	* * * * * *

T.7	TABLE: Drop tests	* *	* *	- * * *	P	
Part/Locatio	n Material	Thickness (mm)	Drop Height (mm)	Observation		
Тор	Plastic	Ø - Ø	1000	No damage, no hazard.		
Side	Plastic	2 Z	1000	No damage, no hazard.		
Bottom	Plastic	*- *	1000	No damage, no hazard.		
Supplementar	y information:	140 140	40 40	10 10 10 1		

T.8 TABLE: Stress relief test			10 10	14 14	Z P A
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Plastic enclosure	Plastic		70	7	No damaged, no hazard.
Supplementary info	ormation:	10 10	10 10	A L	



Attachment 1 - Photo Documentation



Fig.1



Fig.2

NTEK北测



Fig.3



Fig.4





Fig.5



Fig.6



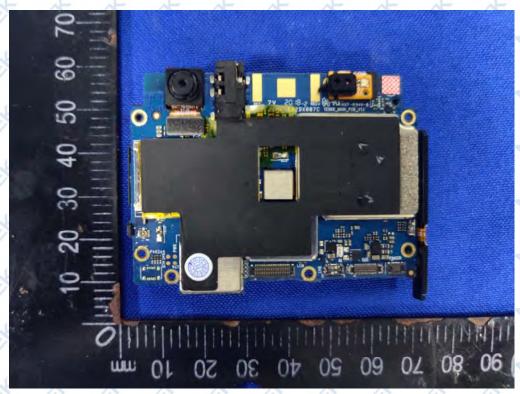


Fig.7

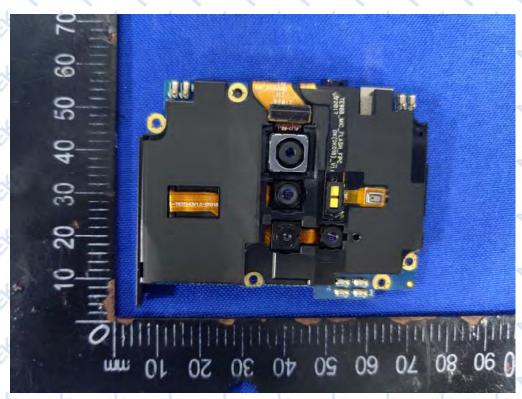


Fig.8





Fig.9

END OF REPORT