

TEST REPORT

On Behalf of

Nebra Ltd

Product Name:	Bluetooth 4.0 usb dongle
Brand Name:	N/A COR OF OF OF OF
Model Number:	FX-8510A
Prepared For:	Nebra Ltd
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, East Sussex, United Kingdom
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China
Date of Receipt:	Apr. 19, 2021
Test Date	Apr. 19, 2021 - Apr. 27, 2021
Date of Report:	Apr. 27, 2021
Report No.:	DL-20210425001-4S

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TEST REPORT IEC 62368-1

Audio/video, information and communication technology equipment

Part 1: Safety requirements

Report Number: DL-20210425001-4S

Tested by (name) Kelly Tang

Compiled by (name) Nico Zou

Approved by (name) Jade Yang

Date of issue Apr. 27, 2021

Total number of pages: 69 pages

Applicant's name Nebra Ltd

Unit 4 Bells Yew Green Business Court, Bells Yew Green, East Sussex,

United Kingdom

Testing Laboratory.....: Shenzhen DL Testing Technology Co., Ltd.

101-201, Building C, Shuanghuan, No.8, Baoging Road, Baolong

Report No.: DL-20210425001-4S

Address Industrial Zone, Baolong Street, Longgang District, Shenzhen,

Guangdong, China

Test specification:

Standard.....: IEC 62368-1:2014 (Second Edition)

Test procedure: test Report

Non-standard test method: N/A

Test Report Form No. IEC62368_1B

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Test item description: Bluetooth 4.0 usb dongle

Brand Name: N/A

Shenzhen Eastech Company Limited.

Manufacturer...... 2nd floor, 3rd building, Baishixia Development Area, Fuyong Street,

Bao'an District, Shenzhen City, Guangdong Province, China.

Model/Type reference: FX-8510A

Ratings 5V===

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List of Attachments (including a total number of pages in each attachment):

Attachment No. 1: 11 pages of EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES for

EN 62368-1:2014+A11:2017.

Attachment No. 2: 2 pages of photos.

Summary of testing:

Tests performed (name of test and test clause):

The submitted samples were tested and found to comply with the requirements of:

IEC 62368-1:2014 (Second Edition)

EN 62368-1:2014+A11:2017

Testing location:

101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

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Summary of compliance with National Differences:

List of countries addressed: National Differences and Group Differences as per CB bulletin. See the attachment of National and Group Differences for details.

The product fulfils the requirements of EN 62368-1:2014+A11:2017.

General disclaimer:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing DL Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the DL, responsible for this Test Report.

Copy of marking plate:

Bluetooth 4.0 usb dongle

Model: FX-8510A

Rating:5V===



Nebra Ltd

Made in China

- 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.

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TEST ITEM PARTICULARS:	
Classification of use by:	 ☑ Ordinary person ☐ Instructed person ☐ Skilled person ☐ Children likely to be present
Supply Connection:	☐ AC Mains ☐ DC Mains ☐ External Circuit - not Mains connected ☐ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance:	 +10%/-10% +20%/-15% +_%/% None
Supply Connection – Type:	 □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ mating connector □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⋈ other: not direct connection to the mains
Considered current rating of protective device as part of building or equipment installation:	Installation location: ☐ building; ☐ equipment ☐ N/A
Equipment mobility:	□ movable □ hand-held □ transportable □ stationary □ for building-in □ direct plug-in □ rack-mounting □ wall-mounted
Over voltage category (OVC):	☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: not direct connection to the mains
Class of equipment:	☐ Class II ☐ Class III
Access location:	☐ restricted access location ☐ N/A
Pollution degree (PD):	□ PD 1 ⊠ PD 2 □ PD 3

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Manufacturer's specified maxium operating ambient:	40 °C
IP protection class	☑ IPX0 ☐ IP
Power Systems	☐ TN ☐ TT ☐ IT V _{L-L} ⊠ N/A
Altitude during operation (m):	
Altitude of test laboratory (m):	
Mass of equipment (kg):	□ 0.01kg approx.
X O GE	X X X
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)
GENERAL PRODUCT INFORMATION:	
Product Description – Bluetooth 4.0 usb dongle, Class III equipment, indoor u	ise only.
Model Differences –	
Additional application considerations – (Consider	ations used to test a component or sub-assembly) –

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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

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

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

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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 e	energy	O, Co,	Correspond	ding classification (ES)	, , , , , , , , , , , , , , , , , , ,
DC input	OV, - ot	O _V	ES1	O' cet	O, Co,

Electrically-caused fire (Clause 6):

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

Example: Battery pack (maximum 85 watts): PS2

Source of power or PIS	Corresponding classification (PS)
DC input	PS1

Injury caused by hazardous substances (Clause 7)

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

Example: Liquid in filled component Glycol

Sour	ce of hazaı	rdous su	bstances	e de la companya de l		Correspond	ling chemical		
N/A	, Co,	X	O ¹	COX.	O,	N/A	OV.	31.	Q. Co.

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)
Equipment mass	MS1
Sharp edges and corners	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

(), (0)	. / ×	()	~ (X.	0
Source of thermal energy		Y .	Corresponding classification (TS)	

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ENERGY SOURCE IDENTIFICATION AND CLASSIFICAT	ION TABLE:
External surface	TS1
Radiation (Clause 10)	
(Note: List the types of radiation present in the product and t Example: DVD – Class 1 Laser Product	he corresponding energy source classification.) RS1
Type of radiation	Corresponding classification (RS)
N/A O CO C	N/A C
ENERGY SOURC	E DIAGRAM
Indicate which energy sources are included in the energy so	urce diagram. Insert diagram below
⊠ ES ⊠ PS ⊠ M	S ⊠ TS □ RS

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OVERVIEW OF EMPLOYED SAFE	GUARDS					
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	ES1: DC input	N/A	N/A	N/A		
6.1	Electrically-caused fire	,-	6.1	- 1/1		
Material part	Energy Source		Safeguards			
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced		
Ordinary	PS1: DC input	N/A	N/A	N/A		
7.1	Injury caused by hazard	ous substances		· ·		
Body Part	Energy Source	Safeguards				
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced		
N/A	N/A	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	MS1: Equipment Mass	N/A	N/A	N/A		
Ordinary	MS1: Sharp edges and corners	N/A	N/A	N/A		
9.1	Thermal Burn					
Body Part	Energy Source		Safeguards			
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced		
Ordinary	TS1: plastic enclosure	N/A	N/A	N/A		
10.1	Radiation	()				
Body Part	Energy Source		Safeguards			
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced		
N/A	N/A	N/A	N/A	N/A		

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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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	Col.	2), O.	IEC 62368-1	Colf.	Co.	Q.
Clause	Requirement + Test		, O	Result - Remark		Verdict

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4	General Requirements		© P
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Per
4.1.2	Use of components	Cox. O. Cox	Р
4.1.3	Equipment design and construction	No accessible part which could cause injury.	P
4.1.15	Markings and instructions:	(See Annex F)	P
4.4.4	Safeguard robustness	See below.	OV P
4.4.4.2	Steady force tests:	Car. V Car.	N/A
4.4.4.3	Drop tests:	(See Annex T.7)	P
4.4.4.4	Impact tests:	D. Cey.	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests:	(See Annex T.4)	N/A
4.4.4.6	Glass Impact tests:	No glass used	N/A
4.4.4.7	Thermoplastic material tests:	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard:	No such safeguard used	N/A
4.4.4.9	Accessibility and safeguard effectiveness		N/A
4.5	Explosion	No explosion occurs during normal/abnormal operation and single fault conditions	N/A
4.6	Fixing of conductors		N/A
4.6.1	Fix conductors not to defeat a safeguard	\$ 5° × \$	N/A
4.6.2	10 N force test applied to:	\$ 50° E \$	N/A
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:	Tigota & Original Control	N/A
4.7.3	Torque (Nm):	Q 7/00 × Q,	N/A
4.8	Products containing coin/button cell batteries	No button cell battery used	N/A
4.8.2	Instructional safeguard	- 0K V 00 1	N/A

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Or	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
0			
4.8.3	Battery Compartment Construction		N/A
OV. Cel	Means to reduce the possibility of children removing the battery:	St. Original Colt.	N/A
4.8.4	Battery Compartment Mechanical Tests:	CONT. OV. CONT.	N/A
4.8.5	Battery Accessibility	Or, Care Or Con	N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	Orio Cert Orio	N/A

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5	Electrically-caused injury		P
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits	Dr. Cox	Р
5.2.2.2	Steady-state voltage and current::	(See appended table 5.2)	C [⊗] P
5.2.2.3	Capacitance limits:	No such part's	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:	× OV cert	N/A
5.3	Protection against electrical energy sources	Only ES1 circuit, no protection need.	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	Dr. Car. Dr. Car.	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	St. Or. Cor.	N/A
5.3.2.2	Contact requirements	Cert Co	N/A
	a) Test with test probe from Annex V:	DY COL	N/A
Ç. X	b) Electric strength test potential (V):	ON COL	N/A
O.	c) Air gap (mm):	Car Car	N/A
5.3.2.4	Terminals for connecting stripped wire	x OV COR	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
5.4	Insulation materials and requirements	2, 20 K A A A	P	
5.4.1.2	Properties of insulating material	* 0, 0er 0	P	
5.4.1.3	Humidity conditioning::	x or cor	N/A	
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	P	
5.4.1.5	Pollution degree:	Pollution degree 2 considered	_	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	· O Cor	N/A	
5.4.1.5.3	Thermal cycling	Co x Or cor	N/A	
5.4.1.6	Insulation in transformers with varying dimensions	CO X OV GO	N/A	
5.4.1.7	Insulation in circuits generating starting pulses	\$ 50° \$ \$\frac{1}{2}\$	N/A	
5.4.1.8	Determination of working voltage	V .C° .x >	N/A	
5.4.1.9	Insulating surfaces	35. A. Co.	N/A	
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	Ticet Orice	N/A	
5.4.1.10.2	Vicat softening temperature:	Orio Coly	N/A	
5.4.1.10.3	Ball pressure:		N/A	
5.4.2	Clearances	× OV cott	N/A	
5.4.2.2	Determining clearance using peak working voltage	Cer x OV cer	N/A	
5.4.2.3	Determining clearance using required withstand voltage:	Orices Orices	N/A	
~ ,	a) a.c. mains transient voltage:	ON CONT		
), Co,	b) d.c. mains transient voltage:	* O, Cor	_	
→ , , , , , , , , , , , , , , , , , , ,	c) external circuit transient voltage:	at Or Cot	_	
,)	d) transient voltage determined by measurement	TO SE OF COST	_	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	Shirt Shirt	N/A	
5.4.2.5	Multiplication factors for clearances and test voltages		N/A	

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\Diamond_{Λ}	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.3	Creepage distances:	A COL X ACC	N/A
5.4.3.1	General	Ø Ø	N/A
5.4.3.3	Material Group:	×	_
5.4.4	Solid insulation	68 × 0, 56 ×	N/A
5.4.4.2	Minimum distance through insulation:		N/A
5.4.4.3	Insulation compound forming solid insulation	Or Car	N/A
5.4.4.4	Solid insulation in semiconductor devices	. Or cor	N/A
5.4.4.5	Cemented joints	The Or Care	N/A
5.4.4.6	Thin sheet material	o it of car	N/A
5.4.4.6.1	General requirements	OV OF CO	N/A
5.4.4.6.2	Separable thin sheet material		N/A
or cer	Number of layers (pcs):		N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:	Ticer Oricer	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:	x Or Cor	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
or cer	Insulation resistance (M Ω):	Q. Co. X. Q	_
5.4.6	Insulation of internal wire as part of supplementary safeguard:	St. Or. Co.	N/A
5.4.7	Tests for semiconductor components and for cemented joints	Y COL X OF COL	N/A
5.4.8	Humidity conditioning	Dr. Con.	N/A
01/0	Relative humidity (%):	, See .	
7 ,0	Temperature (°C):	St. O. Co.	_

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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
<u> </u>				
Č _O ,	Duration (h):	OV. COK. OV		
5.4.9	Electric strength test:	Only ES1 circuit	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	Colt. V Co	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	OV. OV.	N/A	
5.4.10.2	Test methods	, Or set	N/A	
5.4.10.2.1	General	Cot i Ovi -or	N/A	
5.4.10.2.2	Impulse test:	Contraction of	N/A	
5.4.10.2.3	Steady-state test:	O CON X OV	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	Cet Or Cet	N/A	
5.4.11.2	Requirements		N/A	
	Rated operating voltage U _{op} (V):	Or Cay	_	
aV.	Nominal voltage U _{peak} (V):	Col	_	
	Max increase due to variation U _{sp} :	The Or Call	_	
	Max increase due to ageing ΔU _{sa} :	Contraction of the contraction o	_	
35	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$	ON ON COS	_	
5.5	Components as safeguards		Cerc	
5.5.1	General		N/A	
5.5.2	Capacitors and RC units		N/A	
5.5.2.1	General requirement	Cont V Co	N/A	
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	Dr. Cay	N/A	
5.5.3	Transformers	O' cer	N/A	
5.5.4		· · · · · · · · · · · · · · · · · · ·	N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
5.5.5	Relays	*	N/A
5.5.6	Resistors	ON Y	N/A
5.5.7	SPD's	3r O X	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	Con Ox Con	N/A
5.5.7.2	Use of an SPD between mains and protective earth	Di Car Di Ca	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	Cot C	N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors	No such conductor	N/A
5.6.2.1	General requirements	Or Copy	N/A
5.6.2.2	Colour of insulation	Or Cay	N/A
5.6.3	Requirement for protective earthing conductors	.t. 01:00 00t	N/A
→ v	Protective earthing conductor size (mm2):		
5.6.4	Requirement for protective bonding conductors	Co co	N/A
5.6.4.1	Protective bonding conductors		N/A
cer	Protective bonding conductor size (mm2):	7 7 6 6k 0	
O)	Protective current rating (A)::		<
5.6.4.3	Current limiting and overcurrent protective devices		N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement	D. Cey	N/A
), O	Conductor size (mm2), nominal thread diameter (mm):	× Di Cer	N/A
5.6.5.2	Corrosion	X OY COX	N/A
5.6.6	Resistance of the protective system	100 × 00 00	N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method Resistance (Ω):	\$, \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N/A
5.6.7	Reliable earthing		N/A
5.7	Prospective touch voltage, touch current and prote	ctive conductor current	N/A

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OV	IEC 62368-1	Cert V	Or
Clause	Requirement + Test	Result - Remark	Verdict
	× 0 0		
5.7.2	Measuring devices and networks	Only ES1 circuit	N/A
5.7.2.1	Measurement of touch current:	(See appended table 5.7.4)	N/A
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections	Dicer Orice	N/A
Cert	System of interconnected equipment (separate connections/single connection):	Or Cert Or	_
OL:	Multiple connections to mains (one connection at a time/simultaneous connections):		<u> </u>
5.7.4	Earthed conductive accessible parts:	Contraction of the contraction o	N/A
5.7.5	Protective conductor current	Or of Con	N/A
Cer	Supply Voltage (V):		N/A
Or Ce	Measured current (mA)	, 07, 08, 07	N/A
O,	Instructional Safeguard:		N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	Ticer Original	N/A
5.7.6.1	Touch current from coaxial cables	O. Cor	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	X OV Cert	N/A
5.7.7	Summation of touch currents from external circuits	No such external circuits	N/A
, o th	a) Equipment with earthed external circuits Measured current (mA):	Oricest Orices	N/A
0), Cs	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	Dr. Col.	N/A

6	Electrically- caused fire	/ 32 / 72		P
6.2	Classification of power sources (PS) and potential	ignition sources (PIS)	, N	P
6.2.2	Power source circuit classifications	Or Car		P
6.2.2.1	General	See the following details.	N.C	Р
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)		P

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
) x		\$ 5°	χ.
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	CO P
6.2.2.4	PS1:	(See appended table 6.2.2)	P
6.2.2.5	PS2:	Con Con	N/A
6.2.2.6	PS3:	DY CONTRACTOR CONTRACTOR	N/A
6.2.3	Classification of potential ignition sources	Or Colt	P
6.2.3.1	Arcing PIS	No arcing PIS exists	N/A
6.2.3.2	Resistive PIS	No arcing PIS exists	N/A
6.3	Safeguards against fire under normal operating an	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)	P S
6.3.1 (b)	Combustible materials outside fire enclosure	× Of Gar	N/A
6.4	Safeguards against fire under single fault condition	S X OV	Р
6.4.1	Safeguard Method	Control of fire spread	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	V-1 Above enclosure and PCB used	P
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	OV COR	N/A
6.4.3.1	General		N/A
6.4.3.2	Supplementary Safeguards	X OV CS	N/A
Ceit d	Special conditions if conductors on printed boards are opened or peeled	Or Coly	N/A
6.4.3.3	Single Fault Conditions:	it of con	N/A
	Special conditions for temperature limited by fuse	ar Or Car	N/A
6.4.4	Control of fire spread in PS1 circuits	The state of contract	Р
6.4.5	Control of fire spread in PS2 circuits	N. O. O. O.	N/A
6.4.5.2	Supplementary safeguards:	(See appended tables 4.1.2 and Annex G)	P
6.4.6	Control of fire spread in PS3 circuit	- 8x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N/A

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	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
6.4.7	Separation of combustible materials from a PIS	\$\frac{1}{2} \frac{1}{2} \frac	~ N/A	
6.4.7.1	General	\$. 5° × \$	N/A	
6.4.7.2	Separation by distance	5	N/A	
6.4.7.3	Separation by a fire barrier	Cox Ox Cox	N/A	
6.4.8	Fire enclosures and fire barriers		N/A	
6.4.8.1	Fire enclosure and fire barrier material properties	O' Cer O'	N/A	
6.4.8.2.1	Requirements for a fire barrier	No such barrier used	N/A	
6.4.8.2.2	Requirements for a fire enclosure	at or con	N/A	
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	Cox X Or Cox	N/A	
6.4.8.3.1	Fire enclosure and fire barrier openings	O CO X	N/A	
6.4.8.3.2	Fire barrier dimensions	, , , , , , , , , , , , , , , , , , ,	N/A	
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	St. Of Co.	N/A	
	Needle Flame test	The state of the s	N/A	
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	Orio Cer X Orio	N/A	
Oh; Oak; C	Flammability tests for the bottom of a fire enclosure	SK OF CON	N/A	
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	Cor X OV Cor	N/A	
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	O' Con O'	N/A	
6.5	Internal and external wiring	The Open Call	P	
6.5.1	Requirements	The material of VW-1 on internal wiring were considered compliance equal to equivalent to IEC/TS 60695-11-21 relevant standards	P	
6.5.2	Cross-sectional area (mm2)	OV, COK. OV	_	
6.5.3	Requirements for interconnection to building wiring:	Cet Or Cet	N/A	

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0,	IEC 62368-	Cott	O _V
Clause	Requirement + Test	Result - Remark	Verdict
6.6	Safeguards against fire due to connection to additional equipment	. Or corr	N/A
97.	External port limited to PS2 or complies with Clause Q.1	Cett of Cett	N/A

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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)	COX OX	N/A
×	Personal safeguards and instructions:	Car. O' Car.	_
7.5	Use of instructional safeguards and instructions	Or con Or Co	N/A
Col	Instructional safeguard (ISO 7010)	Orio ceit	_
7.6	Batteries:	x Or cot	N/A

8	MECHANICALLY-CAUSED INJURY		P
8.1	General	Enclosure is smooth and no mechanical energy sources	P P
8.2	Mechanical energy source classifications	MS1	OP
8.3	Safeguards against mechanical energy sources	& Or Cor	N/A
8.4	Safeguards against parts with sharp edges and corners	No sharp edges and corners.	N/A
8.4.1	Safeguards	DY COL	N/A
8.5	Safeguards against moving parts	Or Col.	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	st of con	N/A
8.5.2	Instructional Safeguard	L'OB AL OLI COL	_
8.5.4	Special categories of equipment comprising moving parts	Orice * Orice	N/A
8.5.4.1	Large data storage equipment	· O COL	N/A

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O _V	IEC 62368-1	CO N	
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2	Equipment having electromechanical device for destruction of media	Or Cer Or	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	er or cor	N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
	Instructional Safeguard:	DV OF CO	
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N)	, 0, 0, 0	N/A
8.5.5	High Pressure Lamps	S SY COR	N/A
8.5.5.1	Energy Source Classification	Cer x OV cer	N/A
8.5.5.2	High Pressure Lamp Explosion Test:		_ N/A
8.6	Stability	O CON	N/A
8.6.1	Product classification	S. S. X.	N/A
OV.	Instructional Safeguard:	- 8 _x	_
8.6.2	Static stability	Cot.	N/A
8.6.2.2	Static stability test	Di Car	N/A
Co. X	Applied Force:	ON CONT.	<u> </u>
8.6.2.3	Downward Force Test	x OV GOT	N/A
8.6.3	Relocation stability test	× Or cor	N/A
0,	Unit configuration during 10° tilt	Contraction of the contraction o	_
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force)		⊘N/A
or ce	Position of feet or movable parts:	Co Co	
8.7	Equipment mounted to wall or ceiling	-3 th	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	Dr. Cert	N/A
8.7.2	Direction and applied force:	OV COL	N/A
8.8	Handles strength	x OV cert	N/A
8.8.1	Classification	X OV COX	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
90			32
8.8.2	Applied Force:	V C C	N/A
8.9	Wheels or casters attachment requirements		N/A
8.9.1	Classification	3/4	N/A
8.9.2	Applied force	Cert Co	_
8.10	Carts, stands and similar carriers	Dy Coy, A Tion	N/A
8.10.1	General	Or Call	N/A
8.10.2	Marking and instructions	· Or Cay	N/A
	Instructional Safeguard:	St. Or Car	_
8.10.3	Cart, stand or carrier loading test and compliance	Co of Cost	N/A
ec	Applied force	ar or ce	
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
OV	Applied horizontal force (N)	3/ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_
8.10.6	Thermoplastic temperature stability (°C):	Cert Victoria	N/A
8.11	Mounting means for rack mounted equipment		N/A
8.11.1	General	Or Co.	N/A
8.11.2	Product Classification		N/A
8.11.3	Mechanical strength test, variable N	Cot X	N/A
8.11.4	Mechanical strength test 250N, including end stops		N/A
8.12	Telescoping or rod antennas	A. Co.	N/A
OV ~ @	Button/Ball diameter (mm):	V	

9	Thermal burn injury		
9.2	Thermal energy source classifications	External enclosure: TS1	N/A
9.3	Safeguard against thermal energy sources		N/A
9.4	Requirements for safeguards		N/A
9.4.1	Equipment safeguard		N/A

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OV.	IEC 6	52368-1	
Clause	Requirement + Test	Result - Remark	Verdict
-0	ZŽ Ž		C°
9.4.2	Instructional safeguard	:	N/A

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10	PADIATION	x	N/A
	RADIATION		O .
10.2	Radiation energy source classification	Cet V	N/A
10.2.1	General classification	N. Co.	N/A
10.3	Protection against laser radiation		N/A
	Laser radiation that exists equipment:	OL' COR OT	_
O, C	Normal, abnormal, single-fault	x or cer	N/A
O,	Instructional safeguard		_
e ^t	Tool	S ON S	
10.4	Protection against visible, infrared, and UV radiation	Or Cey	N/A
10.4.1	General	at of cert	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:	" ON CONT	N/A
10.4.1.b)	RS3 accessible to a skilled person:	TO SE ON COL	N/A
cert	Personal safeguard (PPE) instructional safeguard:	Dr. Cox	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:		N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:	Car. Or Co.	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque:	Tices of Ces	N/A
10.4.1.f)	UV attenuation:		N/A
10.4.1.g)	Materials resistant to degradation UV:		N/A
10.4.1.h)	Enclosure containment of optical radiation:		N/A
10.4.1.i)	Exempt Group under normal operating conditions	St. Copy	N/A
10.4.2	Instructional safeguard:	Or Care Or Co	N/A
10.5	Protection against x-radiation	OV. Cox. OV	N/A
10.5.1	X- radiation energy source that exists equipment	Cox Or Cox	N/A

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Ola	Diminus At a Table	Desult Descript	\ / P
Clause	Requirement + Test	Result - Remark	Verdict
cet	Normal, abnormal, single fault conditions	A SOUTH OF THE SOU	N/A
	Equipment safeguards:	\(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(1	N/A
OV.	Instructional safeguard for skilled person:	5K 0 00	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation:	or cert	_
Cert	Abnormal and single-fault condition:		N/A
Col	Maximum radiation (pA/kg)	, Orio cott	N/A
10.6	Protection against acoustic energy sources	* 0 0	N/A
10.6.1	General	Con x DY con	N/A
10.6.2	Classification		N/A
- ox	Acoustic output, dB(A):	V CON X OV	N/A
) - e	Output voltage, unweighted r.m.s.	Q	N/A
10.6.4	Protection of persons	St. O. Co.	N/A
Č	Instructional safeguards:	Cox Ox Cox	N/A
Cert	Equipment safeguard prevent ordinary person to RS2	Or Car	_
Orceit	Means to actively inform user of increase sound pressure		_
OV.	Equipment safeguard prevent ordinary person to RS2:	Cet Of Cet	_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	OF CONTRACTOR	N/A
10.6.5.1	Corded passive listening devices with analog input		N/A
Q Q	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output	Cet x OV Cet	_
10.6.5.2	Corded listening devices with digital input		N/A
-01/1	Maximum dB(A)	\$ 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	_
10.6.5.3	Cordless listening device	Cot Cot	N/A
	Maximum dB(A)	ex O con	_

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OV.	CSK	V. 06	IEC 62368-1	Col	OV at	O,
Clause	Requirement + Test	, , , , , ,	(O 3)	Result - Remark		Verdict

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В	NORMAL OPERATING CONDITION TESTS, ABN TESTS AND SINGLE FAULT CONDITION TESTS		P
B.2	Normal Operating Conditions	E O' GE	Р
B.2.1	General requirements:	(See summary of testing & appended test tables)	P
Cert	Audio Amplifiers and equipment with audio amplifiers:	No audio amplifier circuits	N/A
B.2.3	Supply voltage and tolerances	DC Supply	N/A
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	1,0° × 0° 08	Р
B.3.1	General requirements:	(See appended table B.3)	O P
B.3.2	Covering of ventilation openings	2, 2, 2, 4)	N/A
B.3.3	D.C. mains polarity test	34.	N/A
B.3.4	Setting of voltage selector	No such voltage selector	N/A
B.3.5	Maximum load at output terminals:		N/A
B.3.6	Reverse battery polarity	Or Cert	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	, O' Cert	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	P
B.4	Simulated single fault conditions	Di Colt	P
B.4.2	Temperature controlling device open or short-circuited:	No such controlling device	N/A
B.4.3	Motor tests		N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	Ticet Aria Cet	N/A
B.4.4	Short circuit of functional insulation	See the following details.	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.3 & B.4)	P

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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
B.4.4.2	Ob at a constitution of the first transfer o	(On a supervised table D.O. & D.W.	~ CD	
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.3 & B.4)	CO P	
B.4.4.3	Short circuit of functional insulation on coated printed boards	(See appended table B.3 & B.4)	O'P	
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	Dice Care Discort	N/A	
B.4.6	Short circuit or disconnect of passive components	Q, 'Ge, ' , 'S,	N/A	
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	Car Dr Car	8	
B.4.9	Battery charging under single fault conditions :	1,0° × 0° 03	N/A	
С	UV RADIATION			
C.1	Protection of materials in equipment from UV radiation	No UV radiation within the EUT.	N/A	
C.1.2	Requirements	ex Or Car	N/A	
C.1.3	Test method	No of Opt	N/A	
C.2	UV light conditioning test	OV. COM. OV.	N/A	
C.2.1	Test apparatus		N/A	
C.2.2	Mounting of test samples	× Or cor	N/A	
C.2.3	Carbon-arc light-exposure apparatus		N/A	
C.2.4	Xenon-arc light exposure apparatus	Con x Or con	N/A	
D	TEST GENERATORS		N/A	
D.1	Impulse test generators	Q, \Q, \	N/A	
D.2	Antenna interface test generator	SK ON CONTRACT	N/A	
D.3	Electronic pulse generator	Carry Or Con	N/A	
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A	
ÉÄ 🙏	Audio amplifier normal operating conditions	Or Con	N/A	
Cox	Audio signal voltage (V):		_	
Q, C	Rated load impedance (Ω):	x O' cet	_	

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OV.	IEC 62368-1	Cot V	N, or	Ov
Clause	Requirement + Test	Result - Remark		Verdict
- jo			7	Χ
E.2	Audio amplifier abnormal operating conditions			oN/A

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F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	P
F.1	General requirements	* O, Co, 1	P
	Instructions – Language:	English checked	Р
F.2	Letter symbols and graphical symbols		P
F.2.1	Letter symbols according to IEC60027-1		OP
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	See copy of marking plate.	PC
F.3	Equipment markings		P
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	Cer. P
F.3.2	Equipment identification markings	See copy of marking plate.	P
F.3.2.1	Manufacturer identification:	See page 2	Р
F.3.2.2	Model identification:	See page 1	Р
F.3.3	Equipment rating markings	See the following details.	P
F.3.3.1	Equipment with direct connection to mains	. Or cost	N/A
F.3.3.2	Equipment without direct connection to mains	ir or car	P
F.3.3.3	Nature of supply voltage	See copy of marking plate.	Р
F.3.3.4	Rated voltage	See copy of marking plate.	Р
F.3.3.4	Rated frequency:		N/A
F.3.3.6	Rated current or rated power		N/A
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) Col x OV	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:	No switch	N/A

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X			Χ
F.3.5.3	Replacement fuse identification and rating marking	Or car	N/A
F.3.5.4	Replacement battery identification marking:	St. Of Col.	N/A
F.3.5.5	Terminal marking location	Car Or Car	N/A
F.3.6	Equipment markings related to equipment classification	Director of Contraction	N/A
F.3.6.1	Class I Equipment	Class III equipment	N/A
F.3.6.1.1	Protective earthing conductor terminal		N/A
F.3.6.1.2	Neutral conductor terminal	Cott	N/A
F.3.6.1.3	Protective bonding conductor terminals	Cert Co	N/A
F.3.6.2	Class II equipment (IEC60417-5172)	Or Coll	N/A
F.3.6.2.1	Class II equipment with or without functional earth	Or Call	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	et a Direction	N/A
F.3.7	Equipment IP rating marking:	IPX0, no marking is needed	_
F.3.8	External power supply output marking		N/A
F.3.9	Durability, legibility and permanence of marking	Marking test complied	P
F.3,10	Test for permanence of markings	After test there was no damage on the label. The marking on the label did not fade. There was no curling and lifting of the label edge.	or P
F.4	Instructions	Or Call	Р
Or Cer	a) Equipment for use in locations where children not likely to be present - marking	* Or cert O	N/A
OV	b) Instructions given for installation or initial use	See user manual.	Р
	c) Equipment intended to be fastened in place	Con x Ov cox	N/A
, ce ^t	d) Equipment intended for use only in restricted access area	Not used in restricted access area	N/A
01; 01; 02; 03;	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	cer di cer	N/A

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Clause	Description of the Took	Descrit Demark	\ / = = =!! - (-)
Clause	Requirement + Test	Result - Remark	Verdict
cet	f) Protective earthing employed as safeguard	D 250 75 D	N/A
Dr. Ce	g) Protective earthing conductor current exceeding ES 2 limits	ok Or Cor	N/A
	h) Symbols used on equipment	Contraction of the contraction o	N/A
COX.	i) Permanently connected equipment not provided with all-pole mains switch	Dr. Coy, x Or Co	N/A
Cer	j) Replaceable components or modules providing safeguard function		N/A
F.5	Instructional safeguards	et of con	N/A
o ^ž .	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	Or Car Or Car	N/A
<u> </u>	COMPONENTS		N/A
G.1	Switches	er Or Cor	N/A
G.1.1	General requirements	Cor	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.2	Relays	OV. COR.	N/A
G.2.1	General requirements	No relays used	N/A
G.2.2	Overload test	-ex Ori Cert	N/A
G.2.3	Relay controlling connectors supply power		N/A
G.2.4	Mains relay, modified as stated in G.2	Or Care Or Co	N/A
G.3	Protection Devices	OL' COL	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)	Cet Ori Cet	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	Dicer Orice	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	Or Cost	N/A
G.3.2	Thermal links	- % O, Co,	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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	V	N/A
QV.	Aging hours (H)	St. O. Co.	_
. 🗘	Single Fault Condition	Cox. Co	<u> </u>
X	Test Voltage (V) and Insulation Resistance (Ω) . :	Dr. Carr	_
G.3.3	PTC Thermistors	Or Cay	N/A
G.3.4	Overcurrent protection devices	Col.	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	Cor x Dr. Cer	N/A
G.3.5.2	Single faults conditions:	O, Co, X	N/A
G.4	Connectors	V, Co. ×	N/A
G.4.1	Spacings	3k 0, 700, 8	N/A
G.4.2	Mains connector configuration:	Cex A. Ce.	N/A
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely	The Case of the Office.	N/A
G.5	Wound Components		N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	Contraction of the contraction o	N/A
G.5.1.2 b)	Construction subject to routine testing	Or Care Or Co	N/A
G.5.2	Endurance test on wound components	ON CONT. OT	N/A
G.5.2.1	General test requirements	x Or cor	N/A
G.5.2.2	Heat run test	at O' cet	N/A
	Time (s):		_
Cex	Temperature (°C):		
G.5.2.3	Wound Components supplied by mains	V CO ON	N/A
G.5.3	Transformer		O N/A €

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\bigcirc	IEC 62368-1	C V -at	
Clause	Requirement + Test	Result - Remark	Verdict
) ×	No service and the service and		, X.
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1 /-2, and/or IEC62368-1)	Or Col.	N/A
01.00	Position	St. O. Co.	_
	Method of protection	Cox. Or Cox	_
G.5.3.2	Insulation	DY CON	N/A
Cox x	Protection from displacement of windings:	Or Care Or	_
G.5.3.3	Overload test	Oli cert	N/A
G.5.3.3.1	Test conditions	x Or cor	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	Con x OV con	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	, CO x 0 x 0.0	N/A
G.5.4	Motor	D. Co. X	N/A
G.5.4.1	General requirements	\$ 50° x \$	N/A
OV.	Position	St. O. So. Y	_
G.5.4.2	Test conditions	CON STATE OF	N/A
G.5.4.3	Running overload test	DY CONT. DY CONT.	N/A
G.5.4.4	Locked-rotor overload test	Or. Cor.	N/A
, Co.	Test duration (days)	Or Car	_
G.5.4.5	Running overload test for d.c. motors in secondary circuits	Cet Or Cet	N/A
G.5.4.5.2	Tested in the unit	Cel L OV	N/A
2.5	Electric strength test (V):	D. Col. 1 D.	_
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	* Or Car	N/A
O,	Electric strength test (V) :	E OF COR	_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	Cer Of Cer	N/A
G.5.4.6.2	Tested in the unit	Dy Cop 1 Vi	N/A
7,00	Maximum Temperature:	OV CONT.	N/A
7	Electric strength test (V)	The Original Contraction	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):	A Col	N/A
V	Electric strength test (V):	St. Or Col.	N/A
G.5.4.7	Motors with capacitors	Cot	N/A
G.5.4.8	Three-phase motors	The set of Con	N/A
G.5.4.9	Series motors		N/A
, Con	Operating voltage:	OV. COX.	_
G.6	Wire Insulation	× OV cox	N/A
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation	X OV CE	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements	\$ 50° x \$	N/A
OV.	Туре	St. O. So. X	_
	Rated current (A):	Cox Ox Cox	_
χ.	Cross-sectional area (mm2), (AWG):		_
G.7.2	Compliance and test method	Or Care	N/A
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords	, OV Cat	N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):	Dr. Court I Dr.	_
G.7.3.2.2	Strain relief mechanism failure	O, Co, 1	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	St Of Cot	_
G.7.3.2.4	Strain relief comprised of polymeric material	Con Con	N/A
G.7.4	Cord Entry:	The state of the s	N/A
G.7.5	Non-detachable cord bend protection	Orio Cart Or S	N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g)		N/A

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Or	IEC 62368-1	COL TO SE	\Diamond_{Λ}
Clause	Requirement + Test	Result - Remark	Verdict
, X	Diameter (m)	OF CONT.	N/A
<u> </u>		OSE V	
O - O O	Temperature (°C):	X O' G'X	N/A
G.7.6	Supply wiring space	× × × × × × × × × × × × × × × × × × ×	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	O, Co,	N/A
G.8.1	General requirements	· Or Car	N/A
G.8.2	Safeguard against shock	Carr Or Carr	N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test:	OLICE OF O	N/A
G.8.3.3	Temporary overvoltage:		N/A
G.9	Integrated Circuit (IC) Current Limiters	i ovi egit	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	Con i Ori con	N/A
G.9.1 c)	Supply source does not exceed 250 VA:	D. Cal.	N/A
G.9.1 d)	IC limiter output current (max. 5A):	Or Cer.	N/A
G.9.1 e)	Manufacturers' defined drift:	· Or Co.	_
G.9.2	Test Program 1	Con Con	N/A
G.9.3	Test Program 2	Contraction of Contraction	N/A
G.9.4	Test Program 3	OV. TOTAL OV. CO	N/A
G.10	Resistors	O' CORT	N/A
G.10.1	General requirements	No such resistors used	N/A
G.10.2	Resistor test	in a spirit	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	Dr. Cay Dr. Cay	N/A
G.10.3.1	General requirements	OV. COK O	N/A
G.10.3.2	Voltage surge test	x O' cet	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.10.3.3	Impulse test	A COR X OV	N/A
G.11	Capacitor and RC units	, , , , , , , , , , , , , , , , , , ,	N/A
G.11.1	General requirements	· ex	N/A
G.11.2	Conditioning of capacitors and RC units	Cath Co	N/A
G.11.3	Rules for selecting capacitors	D. Cey.	N/A
G.12	Optocouplers	ON COL	N/A
Dr. Co	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	Cer Or Cer	N/A
Ž.	Type test voltage Vini:		_
	Routine test voltage, Vini,b:	Or Corr	_
G.13	Printed boards	Or Cay	P
G.13.1	General requirements	at of con	P
G.13.2	Uncoated printed boards	Six Of Con	Р
G.13.3	Coated printed boards	or or or con	N/A
G.13.4	Insulation between conductors on the same inner surface	Or Cost & Or	N/A
OL.	Compliance with cemented joint requirements (Specify construction):	St. Or Co.	_
G.13.5	Insulation between conductors on different surfaces		× – <
COX	Distance through insulation:	\$ Co. * \$1.50	N/A
	Number of insulation layers (pcs):	\$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	_
G.13.6	Tests on coated printed boards	3K V CO	N/A
G.13.6.1	Sample preparation and preliminary inspection	Cox A Society	N/A
G.13.6.2a)	Thermal conditioning	O' GOR O' CON	N/A
G.13.6.2b)	Electric strength test	O' Cor	N/A
G.13.6.2c)	Abrasion resistance test	Cott	N/A
G.14	Coating on components terminals	DY - 8 ^t	N/A

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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.14.1	Requirements:	(See G.13)	N/A
G.15	Liquid filled components		N/A
G.15.1	General requirements	3K	N/A
G.15.2	Requirements	Cor. O. Co.	N/A
G.15.3	Compliance and test methods	Dr. Carr	N/A
G.15.3.1	Hydrostatic pressure test	Or Car	N/A
G.15.3.2	Creep resistance test	· Or Cay	N/A
G.15.3.3	Tubing and fittings compatibility test	er Or Car	N/A
G.15.3.4	Vibration test	Contraction of the contraction o	N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test	OV. O git OV	○N/A
G.15.4	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)		N/A
a) 🔷	Humidity treatment in accordance with sc5.4.8 – 120 hours	Dicert Oliver	N/A
p)	Impulse test using circuit 2 with Uc = to transient voltage	Or Care Or	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	COX OFF COX	N/A
C2)	Test voltage:		<u> </u>
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	Or Cert X Or Ce	N/A
D2)	Capacitance:	St. O' CO' X	
D3)	Resistance:	COX OX	_
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
нл	General	Or Car	N/A
H.2	Method A		N/A
H.3	Method B	, 01 - 0th	N/A

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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
X			X	
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):	Cox.	_	
H.3.1.4	Single fault current (mA)::	Or Car	_	
H.3.2	Tripping device and monitoring voltage:	Or Cay	N/A	
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	· O' Car	N/A	
H.3.2.2	Tripping device	Con x OV cor	N/A	
H.3.2.3	Monitoring voltage (V) :	Se X OV CE	_	
J	INSULATED WINDING WIRES FOR USE WITHO	OUT INTERLEAVED INSULATION	N/A	
ov - e	General requirements	Δ, [×]	N/A	
К	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	

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OV	Cor	7. O	IEC 62368-1	Cer	OV at	O,
Clause	Requirement + Test	S C	i 0	Result - Remark		Verdict

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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	N/A
M.1	General requirements	N/A
M.2	Safety of batteries and their cells	N/A
M.2.1	Requirements	N/A
M.2.2	Compliance and test method (identify method) :	N/A
M.3	Protection circuits	N/A
M.3.1	Requirements	N/A
M.3.2	Tests	N/A
	- Overcharging of a rechargeable battery	N/A
	- Unintentional charging of a non-rechargeable battery	N/A
	- Reverse charging of a rechargeable battery	N/A
	- Excessive discharging rate for any battery	N/A
M.3.3	Compliance:	N/A
M.4	Additional safeguards for equipment containing secondary lithium battery	N/A
M.4.1	General	N/A
M.4.2	Charging safeguards	N/A
M.4.2.1	Charging operating limits	N/A
	7 × V 20 × V 25	1

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Ori	IEC 62368-1	Cott.	O
Clause	Requirement + Test	Result - Remark	Verdict
M 4 0 0 - \	Charita and the same of the sa	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
M.4.2.2a)	Charging voltage, current and temperature:		
M.4.2.2 b)	Single faults in charging circuitry:		_
M.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation		N/A
M.4.4.3	Drop and charge/discharge function tests		N/A
	Drop		N/A
	Charge		N/A
	Discharge		N/A
M.4.4.4	Charge-discharge cycle test		N/A
M.4.4.5	Result of charge-discharge cycle test		N/A
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current		N/A
M.6.1	Short circuits		N/A
M.6.1.1	General requirements		N/A
M.6.1.2	Test method to simulate an internal fault		N/A
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

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O _V	IEC 62368-1		\Diamond_{\star}
Clause	Requirement + Test	Result - Remark	Verdict
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):		N/A
N	ELECTROCHEMICAL POTENTIALS		N/A
	Metal(s) used :		_
0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied:		_
Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A
P.1	General requirements		N/A
P.2.2	Safeguards against entry of foreign object		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

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
D.0	Onformation and an internal liquids	~ ~ ~ °	NI/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	I 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

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O,	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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
5.4	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

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O,	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	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
T.3	Steady force test, 30 N:		N/A
T.4	Steady force test, 100 N:		N/A
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:	The UUT subjected to three impacts. 1000mm.	Р
T.8	Stress relief test:	70 ℃	Р
T.9	Impact Test (glass)	No glass used	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):		_

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O).	Celt	, Co	IEC 62368-1	Cert	Q.
Clause	Requirement + Test	a), Co	i 0	Result - Remark	Verdict

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MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION	N/A
General requirements	N/A
Compliance and test method for non-intrinsically protected CRTs	N/A
Protective Screen:	N/A
DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)	N/A
Accessible parts of equipment Class III equipment	N/A
Accessible part criterion	N/A
	AGAINST THE EFECTS OF IMPLOSION General requirements Compliance and test method for non-intrinsically protected CRTs Protective Screen

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OV.	Cox.	, Co.	IEC 62368-1	Col	O,
Clause	Requirement + Test	av.Co	(Q 3)	Result - Remark	Verdict

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4.1.2	TABL	E: List of critical com	oonents	× 0, (-,0	PX
Object / part	t No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
РСВ	OV.	Interchangeable	Interchangeable	V-0, 130 °C	UL 94 UL 796	UL V
Enclosure		Interchangeable	Interchangeable	V-1, 130 °C	UL 94	UL E162823

Supplementary information:

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

4.8.4, 4.8.5	TABLE: I	ithium coin/button cell batterie	s mechanical tests	N/A	
(The follow	ing mechanica	al tests are conducted in the seque	nce noted.)		
4.8.4.2	TABLE: St	ress Relief test	Cot V	_	
	Part	Material	Oven Temperature (°C)	Comments	
. X.	O ^V	, - C	Q, Co <u>y.</u>	0°	
4.8.4.3	TABLE: Ba	attery replacement test	X OV COL	_	
Battery pa	ırt no	·····:	The Or Care	_	
Battery Ins	stallation/with	drawal	Battery Installation/Removal Cycle	Cycle Comments	
		Coll	1 O C	~ /	
1.8.4.4	TABLE: Dro	op test		_	
mpact Are	ea	Drop Distance	Drop No.	Observations	
) Ce	o A	O' Car		N. Co	
4.8.4.5	TABLE: Im	pact O	OF OF COL	_	
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments	
Cer	0	Ser Di Cerc		Cer-	
4.8.4.6	TABLE: Cr	ush test		_	
Test	position	Surface tested	Crushing Force (N)	Duration force applied (s)	

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 $^{^{1)}\,\}mbox{Provided}$ evidence ensures the agreed level of compliance. See OD-CB2039.



		IEC 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
4.8.4, 4.8.5	TABLE: Lithium coin/button ce	ell batteries mechanical tests	N/A
(The follow	wing mechanical tests are conducted in	the sequence noted.)	VI 20
			- 0

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4.8.5	TABLE: Lithium o	coin/button cell batteries	mechanical test result	N/A
Test p	oosition	Surface tested	Force (N)	Duration force applied (s)
×	ov cet	DCo, x	0 0 0 0	x - 0
Supplement	tary information:	O, Co, X	Oli cell Ol	, Ç®

5.2	Table: C	Table: Classification of electrical energy sources											
5.2.2.2 -	Steady State	Voltage and Cur	rent conditions										
	0	Location (e.g.		F	Parameters								
No.	Supply Voltage	Voltage circuit lest conditions designation)		U (Vrms or Vpk)	I (Apk or Arms)	Hz	ES Class						
1,0	5.0Vdc	DC input	Normal	5.0Vdc	y est		ES1						
2	Co	» O\	Normal (output + and -)	- Co	O' Cel		ES1						
e it	O, C		Single fault -SC	O, Ce,	×								
5.2.2.3 -	Capacitance	Limits											
	Supply	Location (e.g.		F									
No.	Voltage	circuit designation)	Test conditions	Capacitance, ı	nF Upk ((V)	ES Class						
	Or Co.	× 0	Normal	Or Gerra	× 01/-	- oth							
- all	<u></u>	Colt -x	Abnormal	٠ <u>-</u> ١	× -)\'.'	<u> </u>						
		Or Cert	Single fault – SC/OC	er O	or cert	0	N. CONT.						
5.2.2.4 -	Single Pulses												

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	Cor.	IEC 62368-1	Cell	al' al'	Q.
Clause	Requirement + Test	i 0	Result - Remark		Verdict

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Clause Requirement + Lest		- A	Result	- Remark	0/ 6	verdict	
Table: C	lassification of	electrical energy s	sources		QV.	P	
- Steady State	Voltage and Cui	rrent conditions					
Supply	Location (e.g.	Test conditions			ES Class		
Committee	Location (e.g.						
Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class	
9 <u></u>	-Ori cert	Normal	<u>×</u>	OV _ est	\`_	Cox	
Cocc	07.0	Abnormal	Ç®	01/	-01	O	
Or Cerr	er ov	Single fault – SC/OC	∑, C _®	O	- cer		
Repetitive Pu	ılses						
Supply	Location (e.g.						
Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V) lpk (mA)		ES Class	
€) \ (e)		Normal	-0\ ce ³			ON.	
OV.	Cert	Abnormal	OV	700	0	٨.	
	Cott.	Single fault – SC/OC	3 <u>r</u> 0	- Cor	- 01:	, ce ^{it}	
	Table: C - Steady State Supply Supply Voltage Repetitive Pu	Table: Classification of control of the Steady State Voltage and Curl Supply Location (e.g. Circuit designation) Repetitive Pulses Supply Voltage Location (e.g. Circuit designation) Location (e.g. Circuit designation)	Table: Classification of electrical energy s Steady State Voltage and Current conditions Supply Location (e.g. Test conditions Location (e.g. circuit designation) Normal Abnormal Single fault – SC/OC Repetitive Pulses Supply Voltage Location (e.g. circuit designation) Location (e.g. Test conditions Test conditions Test conditions Normal Abnormal Abnormal Abnormal Single fault – Single fault –	Table: Classification of electrical energy sources - Steady State Voltage and Current conditions Supply Location (e.g. Test conditions Location (e.g. circuit designation)	Table: Classification of electrical energy sources - Steady State Voltage and Current conditions Supply Location (e.g. Test conditions Parameters Supply Voltage Circuit designation)	Table: Classification of electrical energy sources	

Normal –Full load and no load.

Abnormal - Overload output

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

5.4.1.10.2	TABLE: Vicat softening temperature of the	rmoplastics	Or seit Or	N/A
Penetration	(mm):	B. C.	O' ceit	_
Object/ Part	: No./Material	Manufacturer/t rademark	T softening (°C)	
500	ON CONT. ON CONT.	0\		,
supplementa	ary information:	, <u>,</u> , ,	N Colt	

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OV.	Cot.	, C	IEC 623	68-1	CON	0,	~~	O,
Clause	Requirement + Test	, Co	X		Result - Rer	mark	C	Verdict
9	-XX-	0, (9		~	X .) (0	
5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature n	neasureme	nts et	eit	,	or cert	0,	, Cert
, O,	Supply voltage (V)	o ^k	: DC	5.0V	o _	9	Ce ^X	_
c.ot	Ambient T _{min} (°C)		: 4	0			O V	_
, coit	Ambient T _{max} (°C)		. 4	0	\(\sigma_\times\)	(°) — .	-0	_
O ^L	Tma (°C)	<u>X</u>	: 6 4	0 0	_ 🗢	Co.		_
Maximum m	neasured temperature T o	f part/at:			T (°0	C)	A	Allowed T _{max}
РСВ		Q), C	,e ^C 4	4.5	<u>0</u>	<u>.</u> – <	× – cz	Ref
Supplement	ary information:		or, Cay	o ^t	01,0	, coir	0,0	Cor
#: According	gly to installation instruction	on, parts onl	y can be a	access	sible to skille	ed persons.		
Temperatur	e T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°	C) R ₂ (Ω	2) T (°C)	Allowed	Insulation
- ex	A. 50.	0	COE C	_	<u> </u>	×	OV (,g ~
- ex	2, 2, 5, x	0	3			,	0	Cox
Supplement	ary information:	X	OV	COX	. •	Ç	χ	م روا

	-0	<u> </u>	~ ()		O
5.4.1.10.3	TABLE: Ball pre	essure test of thermoplastic	s of		N/A
Allowed imp	ression diameter	(mm):	or of	O, Co,	_
Object/Part	No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	meter (mm)
O, Ce,	, o	- 6k O	, o	COL O	Č.
🛇	Cer	-01, Coly	, 5° x- 0	- est	Q, C
Supplement	ary information:	O ^V ce ^X	O, Co, x	Oli cert	\Diamond_{r}

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OV	Col.		IEC 62368-1	COL	OV at	O,
Clause	Requirement + Test	V Co	x 0	Result - Remark		Verdict
0	X X	0	- 0	- X	0, 00,	

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5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimu	ım Cleara	nces/Cre	epage dista	ince			N/A
Clearance (cl) and distance (cr) at/o	. •	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)
<u>/-</u>	, CO.	-	- ot	💙	500	👌	- OPT	
-Colt	ON ON ONE	👌	6		,00		->\` (e ^x
Supplementary in	nformation:	X	O ^V	- ex) x.	O ^V	c.ex

5.4.2.3	TABLE: Minimum Cleara	nces distances using	required withstand v	voltage N/A		
X	Overvoltage Category (C	ν); ΄	Still ceit	, S , Y - Q		
,O X.	Pollution Degree:) ; c° x	OL' COR	O X		
Clearance	distanced between:	Required withstand voltage	Required cl (mm)	Measured cl (mm)		
O ^V	Cart.		J	- K O' (
<u></u>	N Coll	<u>. </u>	_C			
Suppleme	ntary information:		Or Car			

5.4.2.4	TABLE: Clearances base	N/A		
Test voltage	applied between:	Required cl (mm)	Test voltage (Kv) peak/ r.m.s. / d.c.	Breakdown Yes / No
- C) Cay	,	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABL	E։ Distance throuç	gh ins	ulation meas	surements		N/A
Distance through insulation di at/of:		Peak voltage (V)		Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)
E .	01/	cex - O	Ç	δ' <u></u>	ان روا ان روا	♡	ǰ ,x
0	\Diamond	- est	\Diamond_{\star}	CO X	-01/	- COX	
Supplementary info	rmation	n: 🔑 🔑		2, 00,	x 0	, coit	O. Co.

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				IEC 62	368-1					
Clause	Requiremen	t + Test	Co	X	Re	sult - Re	emark	, ,,,,,	- 2	Verdict
, , , , , , , , , , , , , , , , , , ,		- 0	0,))			- 61	O* .	Ò.	X.
5.4.9	TABLE: Ele	ctric strengt	h tests	Cerc					'	⊘N/A
Test volta	ge applied betv	veen:		Voltage shape (AC, DC)			Test volt	age (V)	Breakdown Yes / No	
Functional	or cort	0,	Cert	×	01,0	- OK	\Diamond_{\wedge}	Cer	Х.	OV.
 ×	01.	ek 🛇	Çe	. ×	- 0	, .	-	O, C	,0	
Basic/sup	olementary:	- 0 ¹	0,	Ce	x	OL	- eit	O	Ç	⊘` X.
- Cer	× <	or cert	\Diamond	Ç	O	Ċ	V -	× ×	O.	, 50°,
	CON X	0),	- oř	O.	, Ger	×	01/0	COL),— `````(_© ,
Reinforce	t: Co	OV.	, or	<), `Ca	×			X	
-X	Op Con	×	0),	e ^t		,Ce		OV	cox	🔿
_{ce} i ^x	\rightarrow	Cox	OV	, _ e ^x	<	,			,	c.
Routine To	ests:	Con	×	0/,0	cox		Cox	X.	0	, coit
- 0/,	- OK	Q, 'Co	χ.	0	, cert		0,	S		♦
	ntary information		nsidered.		OL:	Ceix	×.	Or. Co.	eit	OL
cer	, C	у.	OV	cer		.,0°		OL	C.	o C
5.5.2.2	TABLE: Sto	ored discharç	ge on cap	acitors	o ^K	0,	Ò.	χ. '	0	N/A
Supply Vo	oltage (V), Hz	Test Location	Operat Conditio S)	n (N,	Switch position On or off		sured Volt r 2 secon		S Clas	sification
ext	2			, o't			<u> </u>	0)/	Cei	-
X-capacito blee location ICX Notes: A. Test Location Phase to B. Opera		testing are: ating: to Phase; Ph abbreviations					Single fau	t condition		

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	CSK.	2), O.	IEC 62368-1	Cert	O' at	O.
Clause	Requirement + Test		i 0	Result - Remark		Verdict

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5.6.6.2	TABLE: Resistance o	f protective condu	ctors and termination	ons	N/A
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
<		, CO x	OV - coit	<u> </u>	- OV
Suppleme	entary information:	Or Cerr		ir O	Cox

5.7.2.2, TABLE: Earthed accessible conductive 5.7.4	part of continue	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)
= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D CON - DV OR	Ø, (
Supplementary Information:	, Or Carr Original	, ot 2

6.2.2	.2.2 Table: Electrical power sources (PS) measurements for classification									
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification					
<u>.</u>	oeth	Power (W) :	0.026	0.026	ar or					
DC input	Normal	V _A (V) :	5.0	5.0	PS1 (declared)					
OV ON	OV.	I _A (A) :	0.0052	0.0052	OV. Col					

Supplementary Information:

(*) Measurement taken only when limits at 3 seconds exceed PS1 limits

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	CSK	2/ 2 th	IEC 62368-1	Cert	OV at	O,
Clause	Requirement + Test		, O	Result - Remark		Verdict

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6.2.3.1	Table: Determination	Table: Determination of Potential Ignition Sources (Arcing PIS)						
		Open circuit voltage	Measured r.m.s					
		After 3 s	current	Calculated value	Arcing PIS?			
Location		(Vp)	(Irms)	(V _p x I _{rms})	Yes / No			
COX	V	o ce	·	5° _& 🔗	Col-			

Supplementary information:

All primary circuit/components were considered as arcing PIS, the open circuit of all secondary components/circuit were not exceeded 50V.

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.

K	6.2.3.2 Table: Dete	ermination of Potentia	al Ignition Sour	ces (Resistive F	PIS)	N/A
100	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
	, Co	N- 3	- 000	💍	- Cert	

Supplementary Information:

All primary/secondary components 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, <u>or</u> (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.

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OV.	Cor. O.	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	IEC 62368-1	Corr	Co.	OV.
Clause	Requirement + Test	0 .Co	× 0	Result - Remark		Verdict

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8.5.5	TABLE: High Pressure Lamp	Cert V Ce	N/A			
Description	n	Values	Energy Source Classification			
Lamp type		Q), Co.	_			
Manufactu	irer:	0), -0 ₁	_			
Cat no		St. Ox. Car.	_			
Pressure (cold) (MPa):	gir -or car				
Pressure (operating) (MPa):	1,0° et - 0'				
Operating	time (minutes):		_			
Explosion	method:	0V 00 00 00 00 00 00 00 00 00 00 00 00 0	_			
Max partic	ele length escaping enclosure (mm):					
Max partic	ele length beyond 1 m (mm):	Cer - Vice	(
Overall res	sult::	Con i Vio	- or O Col			
Suppleme	ntary information:	Or Cal				

B.2.5	TA	TABLE: Input test		Co	. O ^V	cert	0	P
U (V)		I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5.0Vdc		0.0052	- est	0.026	, CO x	-0>√	Ge ^X	DC input
Supplement	tary	l informatio	n: O		ST COR	х <)	× 👌 ,0°

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			IEC	62368-	1					
Clause	Requirement +	Test	, Co	<	Resu	lt - F	Remark		7	Verdict
B.3	TABLE: Abnor	mal operating	g condition	n tests			Cox	. 0	Ç	⊘Ø [°] P
Ambient tem	Ambient temperature (°C): See below							_		
Power source	e for EUT: Manu	ufacturer, mod	del/type, out	put ratin	g ei	Se	e cover pa	ge for details	3	
Component I	No. Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse currer (A)		T-coupl e	Temp. (°C)	С	bservation
Unit	SC	5.0Vdc	7h				Туре К	43.1℃	N	lo hazards.

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Supplementary information:

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

S-C: short circuit, O-L: overload, O-C: open circuit; CD: Components damaged;

The Hi-pot test conducted successfully after the completion of fault condition test.

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				IEC 6	2368-1					
Clause	Req	uirement + T	est	,	0	Resu	ılt - Rer	mark	a),Co	Verdict
50					8	OV.		, c		
Ambient ten	npera	ature (°C)	facturer, mode	× 6	ut rating	:	40	over page	for details	◇ P
Component	.0	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fı cur	use rent, A)	ent, (°C)		Observation
Unit		SC	5.0Vdc	10min					43.3℃	Unit shut-down immediately, no damage,

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no hazard.

Supplementary information:

- 1) S-C: short circuit, O-L: overload, O-C: open circuit; CD: components damaged;
- 2) The Hi-pot test conducted successfully after the completion of fault condition test.
- 3) #: Alternative sources of fuse link have been considered.

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Or		ex		, I	EC 62368-	1 000		~\.\.\.\.\.	×.	\Diamond_{\wedge}
Clause	Req	uirement	+ Test	C	χ (Result	- Remark	~	ǰ	Verdict
90	ı	~	_ ^\	0,			1	O,	C _O	
Annex M	TAE	LE: Batt	eries	OLÍ	Coix		C°	× ×	O)	N/A
The tests o	f Ann	ex M are	applicable	only when app	oropriate b	attery data	is not ava	ilable		Cell
Is it possibl	e to ir	nstall the l	battery in a	reverse polar	ity position	?_&		Co.	X	O ^V
		Non-re	echargeabl	e batteries		F	Rechargeal	ole batteri	es	
		Discharging Un-intention			Cha	rging	Disch	arging	Reverse	d charging
		Meas.	Manuf. Specs.	al charging	Meas.	Manuf. Specs.	Meas.	Manuf. Specs.	Meas.	Manuf. Specs.
Max. currer during norn condition		,oř	91.0	Ce ^{tt}	0), (er Ceir	gř.	Or. Cor	co ^{ix} ×	9), C6
Max. currer during fault condition		OL:	e ^ř	2), O),	Ce ^{it}	, (V)	Ce ^K	\$.	Q)	Ce ^X
Test results	<u> </u>	, , , , , , , , , , , , , , , , , , ,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Cert	O'		, C	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- OX	Verdict
	Ó,	0			Z.	0	Cert	Ť		X
 Explosion 	of the	e battery								

Annex M.4	Table: Add	ditional safeguards for eq	uipment conta	aining seconda	ary lithium	, N/A
Batter	ry/Cell	Test conditions		Observation		
No.		Tool containend	U	I (A)	Temp (C)	- Obcorvation
	À. (Normal	-		O	2 <u>5</u>
-0° A		Abnormal	<u>, e</u>	-01	🛇	Ç®Ç
Cer		Single fault –SC/OC	Cer	- 0	*	De Colo
0		Normal	D. Cel	- 0		O, Co,

- Emission of flame or expulsion of molten metal

Supplementary information:

- Electric strength tests of equipment after completion of tests

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OV	coll		,C° ,X	IEC 62368-1	COL	, , , , ,	
Clause	Requiremer	nt + Test	Co,	. Ó	Result - Remark	< V V	Verdict
0		× ×	Q 0		- X	O,	Ç ⁰ '
- ceix		Abnormal		5 ext	<u> </u>	- O	- ceit
Opti		Single fault	- SC/OC	- cet	>	J	-dr ceit
Supplementa	ry Informati	on:		0, (OF SIX	OV.
Dottom	Cha	arging at	Observ	vation .	Charging at	Observation	
Battery identification	n I	Γ _{lowest} (°C)			T _{highest} (°C)		
COL	V	av. Co	. 👌	Cet		, ₂ , ,	oet
ON 60			×.	ON 60			Q) CS
Supplementa	ry Informati	on:	, o	OV.	Cert	OV. CO	. 0
, 0	V cox	_	Ç	x 0	- O	, Co	× <

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Annex Q.1	TABLE: Circuits in	ntended for interc	onnection wit	h building wiri	ng (LPS)	N/A
Note: Meas	ured UOC (V) with all	load circuits discor	nected:	OV, CO	× O	Co
Output	Components	U _{oc} (V)	I _{sc}	(A)	S (V	'A)
Circuit			Meas.	Limit	Meas.	Limit
output	Normal	or cor	2,	-9" 	0 - co	🖯
output	sc C	- 0 ¹	× 🗸	, C x	-OV	cet -
Supplemen	tary Information:	x O ^V	- et	Q, Co,	x o ^N	- ein
SC=Short c	ircuit, OC=Open circui	f ^N				

T.2, T.3, T.4, T.5	TABLE: Steady force test			Arice Cert Aricer			
Part/Loca	ation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation	
<u>-</u>	-01	ô, `C	, ` ,	D' - o'	Q Co ₂	<u> </u>	
Supplemen	tary info	ormation:	Col	01 - 01		Cert . Di	

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OV.	CSE.	1, Co.	IEC 62368-1	Cer	OV ON	\Diamond
Clause	Requirement + Test		, O	Result - Remark		Verdict

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T.6, T.9	TABLE: Impact tests		OV.	.00	Co ot Or co		
Part/Locat	ion	Material	Thickness (mm)	Vertical distance (mm)	Observation		
- 0	į	- or O	Ç® x	0\ <u>-</u>	, Co	OV.	
Supplementa	ary inf	formation:	D) Col		O, Ce,	A-1	

T.7 6 T/	ABLE: Drop tests		Cert			O.P.
Part/Location	Material	Thickness (mm)	Drop Height (mm)		Observation	
Complete EUT	plastic enclosure	Min. 1.5	1 000 mm	COL ON	lo damaged	Ò
Supplementary	information:	Or Cor	× 0	, et	O, Co,	χ.

T.8 TAE	BLE: Stress relief to	est	Cert		A O POT
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Enclosure	Plastic enclosure	Min. 1.5	70	7	No energy source exceed class 1 can be accessed.
Supplementary in	formation:	·	V cet	, Co.	x or ce

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O ^V	Cort	IEC62368_1B - ATTACHN	MENT	\Diamond
Clause	Requirement + Test	alico at Oli	Result - Remark	Verdict

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ATTACHMENT No.1 TO TEST REPORT EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No. EU_GD_IEC62368_1B_II

Attachment Originator...... Nemko AS

Master Attachment Date 2017-09-22

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	CENELEC C	COMMON MOD	DIFICATIO	NS (EN)			
-eit	()" ~ (oclauses, notes 3-1:2014 are pro	. /	ures and annexe	s which are a	dditional to those	F
NTENTS	Add the follo Annex ZA (n Annex ZB (n Annex ZC (in Annex ZD (in	ormative)	Normative with their Special na A-deviation	e references to in corresponding Ed ational conditions ons CENELEC code o	uropean publi	cations	
OV CE			s in the refe	erence document	(IEC 62368-1	:2014) according	j N/
	to the following	~\	1	Note 3	4.1.15	Note	Ò
	0.2.1 4.7.3	Note Note 1 and 2	1 5.2.2.2	Note 3	4.1.15 5.4.2.3.2.2 Table 13	Note C	, cet
	0.2.1	Note			5.4.2.3.2.2		
	0.2.1	Note Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	
	0.2.1 4.7.3 5.4.2.3.2.4	Note 1 and 2 Note 1 and 3	5.2.2.2	Note 2	5.4.2.3.2.2 Table 13 5.4.5.1	Note c	
	0.2.1 4.7.3 5.4.2.3.2.4 5.5.2.1	Note Note 1 and 2 Note 1 and 3 Note	5.2.2.2 5.4.2.5 5.5.6	Note 2 Note	5.4.2.3.2.2 Table 13 5.4.5.1 5.6.4.2.1	Note c Note Note 2 and 3 Note 2, 3 and	

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Clause	Requirement + Test	Result - Remark	Verdict
			, e ^V
1 6	Add the following note:		N/A
	NOTE Z1 The use of certain substances in electrical and	O _o , ×	or es
	electronic equipment is restricted within the EU: see Directive	s Or Cert	
	2011/65/EU.	X OY COX	
I.Z1	Add the following new subclause after 4.9:		N/A
	To protect against excessive current, short-circuits	Y Contract Y	A.
	and earth faults in circuits connected to an a.c.	OV cert	, O
	mains, protective devices shall be included either a	as V	Col
	integral parts of the equipment or as parts of the	V CO	0
	building installation, subject to the following, a), b)	Tr Or Col	
	and c):		
	a) except as detailed in b) and c), protective device	es contraction	
	necessary to comply with the requirements of B.3.		X
	and B.4 shall be included as parts of the equipmer	t;	Cer
	b) for components in series with the mains input to	Y So x	or co
	the equipment such as the supply cord, appliance	Y O, Ce,	
	coupler, r.f.i. filter and switch, short-circuit and eart	h or cor	
	fault protection may be provided by protective		~ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
	devices in the building installation;	Y CON	X
	c) it is permitted for pluggable equipment type B	or or	Co,
	permanently connected equipment, to rely on	× × ×	Con
	dedicated overcurrent and short-circuit protection i		0
	the building installation, provided that the means o	a or con	C
	protection, e.g. fuses or circuit breakers, is fully		\Diamond_{\star}
	specified in the installation instructions.	Cot V	
	If reliance is placed on protection in the building	ar or o	0,
	installation, the installation instructions shall so state	e,	COL
	except that for pluggable equipment type A the	O. Co.	1 - of
	building installation shall be regarded as providing	x Or Got	Y
	protection in accordance with the rating of the wall		\Diamond_{\star}
0	socket outlet.		0
5.4.2.3.2.4	Add the following to the end of this subclause:	The state of the s	N/A
	The requirement for interconnection with external	av av	Cocc
	circuit is in addition given in EN 50491-3:2009.	Co. X	- oil
10.2.1	Add the following to c) and d) in table 39:	O. Co.	N/A
Ψ (For additional requirements, see 10.5.1.		Y 70

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Clause	Requirement + Test	Result - Remark	Verdict
		X X 0 0	
10.5.1	Add the following after the first paragraph:	Y COO X OV	N/A
	For RS 1 compliance is checked by measurement	O, Co,	3
	under the following conditions:	s or cor	
	In addition to the normal operating conditions, all	, Oli cett	\Diamond
	controls adjustable from the outside by hand, by ar	by - or a constant of the cons	
	object such as a tool or a coin, and those internal	Y OK OF CON	
	adjustments or presets which are not locked in a		Corr.
	reliable manner, are adjusted so as to give	So. "	- ext
	maximum radiation whilst maintaining an intelligible		
	picture for 1 h, at the end of which the measurement	nt x	7
	is made.		0,
	NOTE Z1 Soldered joints and paint lockings are examples of	Co.	
	adequate locking.	CONTRACTOR OF CO	3
	The dose-rate is determined by means of a	, Co, * O,	- O'X
	radiation monitor with an effective area of 10 cm², a	at 🛇 🎺 🛴	
	any point 10 cm from the outer surface of the	* OF COT	, , , , , ,
	apparatus.		
	Moreover, the measurement shall be made under	- ex	Ò
	fault conditions causing an increase of the	Jo x Ox Cor	
	high-voltage, provided an intelligible picture is	Co. x	COX
	maintained for 1 h, at the end of which the	OY COR	
	measurement is made.	OV. COL	Co
	For RS1, the dose-rate shall not exceed 1 µSv/h		0)
	taking account of the background level.		
	NOTE Z2 These values appear in Directive 96/29/Euratom of 1	3	
	May 1996.	Co x Or cs	· ·
10.6.1	Add the following paragraph to the end of the	Q (0)	N/A
,00	subclause:	Or Col	0
	EN 71-1:2011, 4.20 and the related tests methods	× OVÝ - o ^ž) Ce
	and measurement distances apply.		0,
10.Z1		- Co. X	N/A
1U. <u>L</u> I	Add the following new subclause after 10.6.5.	St. Ox Con	IN/A
	10.Z1 Non-ionizing radiation from radio	So x	- OF
	frequencies in the range 0 to 300 GHz	O, Co,	of the
	The amount of non-ionizing radiation is regulated b	y or ext	Ç
	European Council Recommendation 1999/519/EC		D _v
	of 12 July 1999 on the limitation of exposure of the	× V C	

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IEC62368_1B - ATTACHMENT				
Clause	Requirement + Test Result - Remark	Verdict		
O .		C		
	general public to electromagnetic fields (0 Hz to 300	Cert		
	GHz).	O' Get		
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to	OV:		
	Time-Varying Electric, Magnetic, and			
	Electromagnetic Fields (up to 300 GHz). For	Cet		
	hand-held and body-mounted devices, attention is	, oth		
	drawn to EN 50360 and EN 50566			
G.7.1	Add the following note:	N/A		
	NOTE Z1 The harmonized code designations corresponding to	ν, ο		
	the IEC cord types are given in Annex ZD.	3/Y O		
Bibliography	Add the following standards:	N/A		
	Add the following notes for the standards indicated:	N. Co		
	IEC 60130-9 NOTE Harmonized as EN 60130-9.	Con		
	IEC 60269-2 NOTE Harmonized as HD 60269-2.	O, Co,		
	IEC 60309-1 NOTE Harmonized as EN 60309-1.			
	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 se	eries.		
	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	Co. x		
	IEC 60664-5 NOTE Harmonized as EN 60664-5.			
	IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).	Or Car		
	IEC 61508-1 NOTE Harmonized as EN 61508-1.	OV (
	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.	x. OV		
	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.	3		
	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.	Cer)		
	IEC 61643-1 NOTE Harmonized as EN 61643-1.	St. Cott		
	IEC 61643-21 NOTE Harmonized as EN 61643-21.			
	IEC 61643-311 NOTE Harmonized as EN 61643-311.	4		
	IEC 61643-321 NOTE Harmonized as EN 61643-321.			
	IEC 61643-331 NOTE Harmonized as EN 61643-331.	Cet V		
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	cet -		
4.1.15	Denmark, Finland, Norway and Sweden	N/A		
	To the end of the subclause the following is added:	0)		
	Class I pluggable equipment type A intended for	, , , , ,		

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Clause	Requirement + Test	Result - Remark	\/ordiot
Clause	Requirement + Test	Result - Remark	Verdict
y cex	connection to other equipment or a network shall, it safety relies on connection to reliable earthing or if surge suppressors are connected between the	Origer Orig	Cert
	network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.	Cert V OLICE'S	9,
	The marking text in the applicable countries shall b as follows:	e dr. Court Arrend	COL.
	In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."	Sy Or Cay	Dr.C
	In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	Cet of Ce	*
	In Norway : "Apparatet må tilkoples jordet stikkontakt"	Orice Cett Ori	Corr
O), Co	In Sweden : "Apparaten skall anslutas till jordat uttag"	· Or Car	Or. Co
.7.3	United Kingdom	Colt . Ov or	N/A
	To the end of the subclause the following is added:	Cer , Still	co ^X
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	A Dr. Cer	Dr. Carr
.2.2.2	Denmark After the 2nd paragraph add the following:	Cert Or Cert	N/A
	A warning (marking safeguard) for high touch current is required if the touch current exceeds th limits of 3,5 mA a.c. or 10 mA d.c.		Cert
.4.11.1 an	d Finland and Sweden		N/A
nnex G	To the end of the subclause the following is added:	jer x Vice cer	O,
	For separation of the telecommunication network from earth the following is applicable:		o ⁱ
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either		Ceir
	• two layers of thin sheet material, each of which	x OV COX	7 ,

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Clause	Requirement + Test	Result - Remark	Verdict
			S .
	shall pass the electric strength test below, or		Col
	one layer having a distance through insulation of a	t V V	est .
	least 0,4 mm, which shall pass the electric strength	Corr	
	test below.	x OV cert	
	If this insulation forms part of a semiconductor	Colt of the	
	component (e.g. an optocoupler), there is no	i cor	X
	distance through insulation requirement for the		Co)
	insulation consisting of an insulating compound	V CO X	COL
	completely filling the casing, so that clearances and		
	creepage distances do not exist, if the component passes the electric strength test in accordance with	x or con	V
	the compliance clause below and in addition		\Diamond
	passes the tests and inspection criteria of 5.4.8	Con V	<u>.</u>
	with an electric strength test of 1,5 kV multiplied by	C'ENT OF	×
	1,6 (the electric strength test of 5.4.9 shall be		Cert
	performed using 1,5 kV), and	X X	Y cox
	is subject to routine testing for electric strength	Corr	
	during manufacturing, using a test voltage of 1,5kV.	x or cert	
	It is permitted to bridge this insulation with a	Col.	0,
	capacitor complying with EN 60384-14:2005,		X
	subclass Y2.	OV. ON	o _o ,
	A capacitor classified Y3 according to EN	V V V	COL
	60384-14:2005, may bridge this insulation under the	Y CO.	0
	following conditions:	The state of the s	
	the insulation requirements are satisfied by having	x or con	
	a capacitor classified Y3 as defined by EN		<u> </u>
	60384-14, which in addition to the Y3 testing, is	or con	
	tested with an impulse test of 2,5 kV defined in	OV. OF	Co,
	5.4.11;	× 00 × 0	of cer
	• the additional testing shall be performed on all the	Co,	0
	test specimens as described in EN 60384-14;	x or con	
	the impulse test of 2,5 kV is to be performed before	to, * Of tot	
	the endurance test in EN 60384-14, in the sequence		a.X.
	of tests as described in EN 60384-14.	OV. COR	7 X
5.5.2.1	Norway		N/A
0	After the 3rd paragraph the following is added:	V 500 x	0
	Alter the Sid paragraph the following is added.	× O, Co,	

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IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
0.		N S) X
	required to be rated for the applicable line-to-line voltage (230 V).	Or Care Or	Cerc
5.5.6	Finland, Norway and Sweden		N/A
	To the end of the subclause the following is added:	a Olin cert	Ø.
	Resistors used as basic safeguard or bridging	Co	\Diamond
	basic insulation in class I pluggable equipment		8
	type A shall comply with G.10.1 and the test of G.10.2.	Or Care or Or	ger ger
.6.1	Denmark	A COL	N/A
	Add to the end of the subclause	St. Of Col.	OV
	Due to many existing installations where the	, cer or cer	
	socket-outlets can be protected with fuses with	Co & Or Ge	
	higher rating than the rating of the socket-outlets the		- OX
	protection for pluggable equipment type A shall be	Or Car	
	an integral part of the equipment.		Co
	Justification:	× 5° ×	OV.
	In Denmark an existing 13 A socket outlet can be	S. O. Co.	
	protected by a 20 A fuse.	So y Or Ger	
.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for pluggable equipment type A,		-01
	the following is added:	Or Cer	, Co
	- the protective current rating is taken to be 13 A	ovi - or	O'
	this being the largest rating of fuse used in the		O
	mains plug.	Co.	
.6.5.1	To the second paragraph the following is added:	TO SE OF SE	N/A
	The range of conductor sizes of flexible cords to be	Y SO X	Col
	accepted by terminals for equipment with a rated	Or Co.	,
	current over 10 A and up to and including 13 A is:	OV COR	Co
	1,25 mm ² to 1,5 mm ² in cross-sectional area.	AL STATE	\Diamond_{\wedge}
7.5			NI/A
.7.5	Denmark	Cott	N/A
	To the end of the subclause the following is added:		e
	The installation instruction shall be affixed to the	V , Co , , , , , , , , ,	- O'N
	equipment if the protective conductor current	Or Car	
	exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	~ ~ ~ ~ ~ ~	Q C

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Clause	Requirement + Test	Result - Remark	Verdict
	×		,00
5.7.6.1	Norway and Sweden	Y OY	N/A
	To the end of the subclause the following is added:	O, Co,	OV of
	The screen of the television distribution system is	x O' cor	V
	normally not earthed at the entrance of the building		\Diamond_{\wedge}
	and there is normally no equipotential bonding		x 01
	system within the building. Therefore the protective		
	earthing of the building installation needs to be	, Co x	COK.
	isolated from the screen of a cable distribution	Q Cor	
	system.	OLICE - OK	, Co.
	It is however accepted to provide the insulation	× × ×	0
	external to the equipment by an adapter or an		
	interconnection cable with galvanic isolator, which		
	may be provided by a retailer, for example. The use	er C	3
	manual shall then have the following or similar	V 20° V	<i>y</i> ×
	information in Norwegian and Swedish language		Col
	respectively, depending on in what country the	, Co	OY - ex
	equipment is intended to be used in:	x Or Cor	
	"Apparatus connected to the protective earthing of	OV: - et	
	the building installation through the mains	Cor.	
	connection or through other apparatus with a	S S S S S S S S S S S S S S S S S S S	
	connection to protective earthing – and to a	X O	Col
	television distribution system using coaxial cable,	Or Co.	, it
	may in some circumstances create a fire hazard.	Or cor	
	Connection to a television distribution system		O C
	therefore has to be provided through a device		
	providing electrical isolation below a certain	, or or cert	· ·
	frequency range (galvanic isolator, see EN	So x	e la
	60728-11)"	d cell	, X
	NOTE In Norway, due to regulation for CATV-installations, and i	n ovie cost	Co.
	Sweden, a galvanic isolator shall provide electrical insulation		O) cer
	below 5 MHz. The insulation shall withstand a dielectric strength		
	1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	x or con	
	Co av at		C O
	Translation to Norwegian (the Swedish text will also		X
	be accepted in Norway):		Co
	"Apparater som er koplet til beskyttelsesjord via	× 0	, est
	nettplugg og/eller via annet jordtilkoplet utstyr – og e	er of other	
	tilkoplet et koaksialbasert kabel-TV nett, kan	ovi -ot	D. C
	forårsake brannfare. For å unngå dette skal det		

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O.	IEC62368_1B - ATTACHI	WENI	
Clause	Requirement + Test	Result - Remark	Verdict
0	- X O CO	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
	ved tilkopling av apparater til kabel-TV nett	, 0° , 0°	COL
	installeres en galvanisk isolator mellom apparatet og		, o
	kabel-TV nettet."		Č.
	Translation to Swedish:		Or
	"Apparater som är kopplad till skyddsjord via jordat	- of X	0
	vägguttag och/eller via annan utrustning och	E O OF	· ·
	samtidigt är kopplad till kabel-TV nät kan i vissa fall	Co St.	0
	medfőra risk főr brand. Főr att undvika detta skall vic)
	anslutning av apparaten till kabel-TV nät galvanisk	OLIC SEE	Co.
	isolator finnas mellan apparaten och kabel-TV	, Co	0
	nätet.".	x O Cor	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		× 0 × 0 ×	
5.7.6.2	Denmark	Color Victoria	N/A
	To the end of the subclause the following is added:		34
	The warning (marking safeguard) for high touch		Cerc
	current is required if the touch current or the	Q* C*	, oit
	protective current exceed the limits of 3,5 mA.		
B.3.1 and B.4	I Ireland and United Kingdom	x OV cert	N/A
	The following is applicable:		O,
			X
	To protect against excessive currents and		0
	short-circuits in the primary circuit of direct plug-in	V	- ei
	equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature	Q Car	
		oli et	V. (C)
	circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these		\Diamond
		Ex O, Co,	
	tests, suitable protective devices shall be included	S X O C	
	as an integral part of the direct plug-in equipment until the requirements of Annexes B.3.1 and B.4 are		a K
	met	Or cert	,Co
G.4.2	Denmark		N/A
G.4.2	To the end of the subclause the following is added:	V OV - OK	N/A
	60° x 0°		0/
	Supply cords of single phase appliances having a	Sy Or Co.	Ų.
	rated current not exceeding 13 A shall be provided	X OV	est.
	with a plug according to DS 60884-2-D1:2011.	Dr. Co.	1
	CLASS I EQUIPMENT provided with socket-outlets with	OV COR	Co
	earth contacts or which are intended to be used in	-X	0
	locations where protection against indirect contact is	x 0° 60°	

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0.	IEC62368_1B - ATTACHMENT		
Clause	Requirement + Test	Result - Remark	Verdict
X	required according to the wiring rules shall be provided		<u> </u>
	with a plug in accordance with standard sheet DK 2-1a		Co.
			0 - 0
	DK 2-5a.	X OV CON	
	If a single-phase equipment having a RATED CURRE		
	exceeding 13 A or if a poly-phase equipment is provide	ed St.	7 0
	with a supply cord with a plug, this plug shall be in		0
	accordance with the standard sheets DK 6-1a in DS		ect
	60884-2-D1 or EN 60309-2.	Or Cox	
	Mains socket outlets intended for providing power	r to	,,,,
	Class II apparatus with a rated current of 2,5 A sh	nall	() ()
	be in accordance DS 60884-2-D1:2011 standard	Z O	
	sheet DKA 1-4a.		
	Other current rating socket outlets shall be in		
	compliance with Standard Sheet DKA 1-3a or DK	TACK OF THE STATE	,Co
	1-1c.		Cert
		S. Se.	OV - OK
	Mains socket-outlets with earth shall be in	x pr cer	,00
	compliance with DS 60884-2-D1:2011 Standard		0,
	Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK		x. 0
	1-7a		,0
	Justification:		- OK
	Heavy Current Regulations, Section 6c	Or Coll	
G.4.2	United Kingdom	OV COT	N/A
	To the end of the subclause the following is adde	d:	O, C,
	The plug part of direct plug-in equipment shall be		
		× (), ~ (0,	
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12		-07
	12.11, 12.12, 12.13, 12.16, and 12.17, except that		, o
	the test of 12.17 is performed at not less than		Co
	125 °C. Where the metal earth pin is replaced by	an	OV cer
	Insulated Shutter Opening Device (ISOD), the	is Or Car	
O'	requirements of clauses 22.2 and 23 also apply.		
G.7.1	United Kingdom	Eec V	N/A
	To the first paragraph the following is added:	N O' C	© L
	Equipment which is fitted with a flexible cable or co	ord	Coll
	and is designed to be connected to a mains sock	et O	
	conforming to BS 1363 by means of that flexible	OV - oth	,,,,
	cable or cord shall be fitted with a 'standard plug'	in	0
	accordance with the Plugs and Sockets etc (Safe	~ O'	

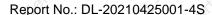
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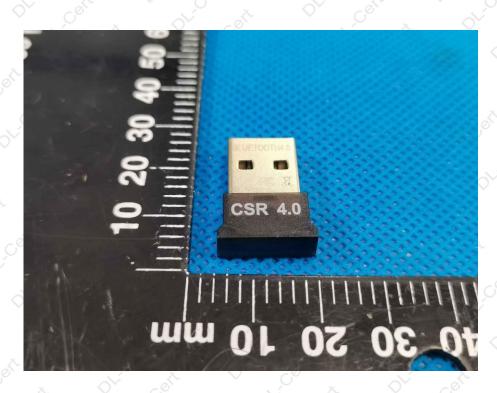
	O		
Clause	Requirement + Test	Result - Remark	Verdict
Or Cer	Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentiall means an approved plug conforming to BS 1363 or an approved conversion plug.	× ()	
G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cor shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	× Dr. Cey	N/A
G.7.2	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.		N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	OL'CO OL'	Cert
10.5.2	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval		N/A
	(Bauartzulassung) and marking. Justification: German ministerial decree against ionizing radiatio (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive	n or or or	OV. Cet.
	96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320,	Or Cert Or Cert	, ceit

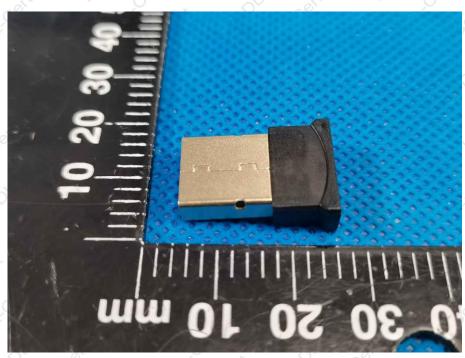
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Attachment No. 2: EUT PHOTOGRAPHS





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**** END OF REPORT ****

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