

TEST REPORT

On Behalf of

Nebra Ltd

Product Name:	150Mbps 2 in 1 Bluetooth wifi adapter
Brand Name:	N/A Cott
Model Number:	FX-8723B
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:	Jun. 17, 2021
Test Date	Jun. 17, 2021 - Jun. 22, 2021
Date of Report:	Jun. 22, 2021
Report No.:	DL-20210624011-5S

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TEST REPORT IEC 62368-1

Audio/video, information and communication technology equipment

Part 1: Safety requirements

Report Number: DL-20210624011-5S

Tested by (name) Kelly Tang

Compiled by (name) Nico Zou

Approved by (name) Jade Yang

Date of issue Jun. 22, 2021

Total number of pages 70 pages

Applicant's name Nebra Ltd

Address 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, Baoqing Road, Baolong

Report No.: DL-20210624011-5S

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 150Mbps 2 in 1 Bluetooth wifi adapter

Brand Name N/A

Shenzhen Eastech Company Limited.

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

Model/Type reference FX-8723B

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: 3 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:

Fits the British bias

IEC 62368-1:2014 (Second Edition)

BS 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 BS 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:

150Mbps 2 in 1 Bluetooth wifi adapter

Model: FX-8723B
Rating: 5V===





Shenzhen Eastech Company Limited.

Importer: XXXXXX Address: XXXXXX

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 ☐ 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::	
Over voltage category (OVC):	☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: not direct connection to the mains
Class of equipment:	☐ Class I ☐ Class II ☐ Class III
Access location:	☐ restricted access location ☐ N/A
Pollution degree (PD):	□ PD 1 ⊠ PD 2 □ PD 3

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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):	⊠ 2000 m or less □ m
Mass of equipment (kg):	□ 0.01kg approx. □ 0.01kg approx.
X OV GOT	X O GOT
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 – 150Mbps 2 in 1 Bluetooth wifi adapter, Class III equipm	nent, indoor use 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	energy	O, Ce,	Correspor	nding classification (ES)	CON
DC input		0	ES1		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	. Or cot	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. CS	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

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

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ENERGY SOURCE IDENTIFICATION AND CLASSI	FICATION TABLE:
External surface	TS1
Radiation (Clause 10)	
(Note: List the types of radiation present in the produc	ct and the corresponding energy source classification.)
Example: DVD – Class 1 Laser Product	RS1
Type of radiation	Corresponding classification (RS)
N/A	N/A
ENERGY S	OURCE DIAGRAM
Indicate which energy sources are included in the energy	ergy source diagram. Insert diagram below
M Ee M De	⊠ MS ⊠ TS □ RS

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OVERVIEW OF EMPLOYED SAFE	GUARDS			
Clause	Possible Hazard			
5.1	Electrically-caused injury	у		
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			
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			
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 inju	ury		
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		2)/	
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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Clause	Requirement + Test		i 0	Result - Remark		Verdict

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4	General Requirements		Ç@ ^Ĉ P
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Per
4.1.2	Use of components	Cox. Or 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:	Cor. V. Co.	N/A
4.4.4.3	Drop tests:	(See Annex T.7)	P
4.4.4.4	Impact tests:	D. Cert	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	Co x O G	N/A
4.6.1	Fix conductors not to defeat a safeguard	\$ 5° × \$	N/A
4.6.2	10 N force test applied to:	Q 700 F Ø	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:	Ticor & Oricor	N/A
4.7.3	Torque (Nm):	D 7/00 × DY	N/A
4.8	Products containing coin/button cell batteries	No button cell battery used	N/A
4.8.2	Instructional safeguard	- K V (0°	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
, jo			X
4.8.3	Battery Compartment Construction		N/A
	Means to reduce the possibility of children removing the battery:	ok of co	N/A
4.8.4	Battery Compartment Mechanical Tests:	Con Con	N/A
4.8.5	Battery Accessibility	Or con	N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	Dr. Cert Dr.	N/A

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5	Electrically-caused injury	Electrically-caused injury	
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits	Original Original	Р
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	CO 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:	No audio signal terminals	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. Cer. Dr.	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	er Original	N/A
5.3.2.2	Contact requirements	Carr. A St. Co.	N/A
	a) Test with test probe from Annex V:	ON COL	N/A
Ç. X	b) Electric strength test potential (V):	Or, Celt	N/A
O.	c) Air gap (mm):	s or car	N/A
5.3.2.4	Terminals for connecting stripped wire	x 0 000	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4	Insulation materials and requirements	N CONTRACTOR	P
5.4.1.2	Properties of insulating material	× Or Col	Per
5.4.1.3	Humidity conditioning::	Y ON COL	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	x or 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	1,0° 1,0° 0,0°	N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage	7.0° X Ø	N/A
5.4.1.9	Insulating surfaces	3K	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	Ticely Oricely	N/A
5.4.1.10.2	Vicat softening temperature:	Or Colt	N/A
5.4.1.10.3	Ball pressure:	Oli celt Or	N/A
5.4.2	Clearances	x or cer	N/A
5.4.2.2	Determining clearance using peak working voltage	Cot x OV cot	N/A
5.4.2.3	Determining clearance using required withstand voltage:	Orices Orices	N/A
	a) a.c. mains transient voltage:	Or. Car.	
7, Co.	b) d.c. mains transient voltage:	in the contraction	_
	c) external circuit transient voltage:	it Or Car	_
	d) transient voltage determined by measurement	The street of contract	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	Dr. Cer. X Dr.C	N/A
5.4.2.5	Multiplication factors for clearances and test voltages:		N/A

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\Diamond_{\wedge}	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.3	Creepage distances:	A Contraction of the contraction	N/A
5.4.3.1	General	\$ 2,5°° × \$	N/A
5.4.3.3	Material Group:		_
5.4.4	Solid insulation		N/A
5.4.4.2	Minimum distance through insulation:	Dr. Cop. Dr. Co.	N/A
5.4.4.3	Insulation compound forming solid insulation	Or Car	N/A
5.4.4.4	Solid insulation in semiconductor devices	Cor	N/A
5.4.4.5	Cemented joints	at of con	N/A
5.4.4.6	Thin sheet material	CONTRACTOR CONTRACTOR	N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		oN/A
or cei	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:	Treet Original	N/A
5.4.4.6.5	Mandrel test	OV CON ON CO	N/A
5.4.4.7	Solid insulation in wound components	Or cor	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz::	x or con	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General	1, Co. 1, Co.	N/A
5.4.5.2	Voltage surge test	\$ \$\int \(\)	N/A
or cer	Insulation resistance (M Ω):	Q, 720, 97	_
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	N. Cey. Dr. Cey	N/A
5.4.8	Humidity conditioning	Dy Col.	N/A
0V.	Relative humidity (%):	O COLL	
~ ,C	Temperature (°C):	The Open Contraction	—

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Ov	IEC 62368-1	Con at	
Clause	Requirement + Test	Result - Remark	Verdict
<u>, </u>		O CO	
Çe ^N	Duration (h):		
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		N/A
5.4.10.2	Test methods	i O' se ^t	N/A
5.4.10.2.1	General	Cot	N/A
5.4.10.2.2	Impulse test:	Contraction of the contraction o	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	Cok Or Cok	N/A
5.4.11.2	Requirements		N/A
Co air	Rated operating voltage U _{op} (V):	Or Cay	_
av.Co	Nominal voltage U _{peak} (V):		_
	Max increase due to variation U _{sp}	The Or Coll	
→ ·	Max increase due to ageing ΔU _{sa} :	Contraction of Contraction	_
35	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$	Con of Col	_
5.5 ₀ 0,	Components as safeguards		Cert
5.5.1	General	, , , , , , , , , , , , , , , , , , ,	N/A
5.5.2	Capacitors and RC units	3,4	N/A
5.5.2.1	General requirement	Cox V Co	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	Dicest Dices	N/A
5.5.3	Transformers	Or car	N/A
5.5.4	Optocouplers	, or est	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
5.5.5	Relays	A Solution A Solution	N/A	
5.5.6	Resistors	Q, ~ \oldows	N/A	
5.5.7	SPD's		N/A	
5.5.7.1	Use of an SPD connected to reliable earthing		N/A	
5.5.7.2	Use of an SPD between mains and protective earth	Dr. Cor. Or. Co.	N/A	
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:		N/A	
5.6	Protective conductor		N/A	
5.6.2	Requirement for protective conductors	No such conductor	N/A	
5.6.2.1	General requirements	ON CONTRACTOR	N/A	
5.6.2.2	Colour of insulation	O), Car	N/A	
5.6.3	Requirement for protective earthing conductors	if Or Cor	N/A	
	Protective earthing conductor size (mm2):	T OF COR	_	
5.6.4	Requirement for protective bonding conductors	Co, or Or Cor	N/A	
5.6.4.1	Protective bonding conductors		N/A	
Cer	Protective bonding conductor size (mm2):		_	
O), C	Protective current rating (A)::		_	
5.6.4.3	Current limiting and overcurrent protective devices	Con The Contract of the Contra	N/A	
5.6.5	Terminals for protective conductors	Cert L OV - ex	N/A	
5.6.5.1	Requirement	D. Court	N/A	
Dr. Cek	Conductor size (mm2), nominal thread diameter (mm):	x Original O	N/A	
5.6.5.2	Corrosion	X OF COR	N/A	
5.6.6	Resistance of the protective system	Jos x Or Ger	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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9				
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	3K V Co	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	Dicer Orice	N/A	
Col	System of interconnected equipment (separate connections/single connection):	Oricet Orice	_	
OL:	Multiple connections to mains (one connection at a time/simultaneous connections):		_	
5.7.4	Earthed conductive accessible parts:	Contraction of the contraction o	N/A	
5.7.5	Protective conductor current	Or of Car	N/A	
Cert	Supply Voltage (V):		N/A	
O, Ce	Measured current (mA):		N/A	
OV.	Instructional Safeguard:		N/A	
5.7.6	Prospective touch voltage and touch current due to external circuits	Dicer Oricet	N/A	
5.7.6.1	Touch current from coaxial cables	Or Copy	N/A	
5.7.6.2	Prospective touch voltage and touch current from external circuits	x O' cet	N/A	
5.7.7	Summation of touch currents from external circuits	No such external circuits	N/A	
, ot .	a) Equipment with earthed external circuits Measured current (mA):	Oricest Oricest	N/A	
Or Ce	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	Or Cole of	N/A	

6	Electrically- caused fire	/ 34 / 02		P
6.2	Classification of power sources (PS) and potential	ignition sources (PIS)	, i'v	P
6.2.2	Power source circuit classifications	Or Call	30	P
6.2.2.1	General	See the following details.	N. C	P
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			
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) 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 conditions		P
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	O'Cert	N/A
6.4.3.1	General		N/A
6.4.3.2	Supplementary Safeguards	X OV CS	N/A
Ceit	Special conditions if conductors on printed boards are opened or peeled	Or Co.	N/A
6.4.3.3	Single Fault Conditions:	The off Care	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	Direction of the control of the cont	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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Clause	Requirement + Test	Result - Remark	Verdict	
6.4.7	Separation of combustible materials from a PIS	DY CONT.	~ N/A	
6.4.7.1	General	\$ 50° × 0	N/A	
6.4.7.2	Separation by distance	2K	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. O. 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	
Orion Co	Flammability tests for the bottom of a fire enclosure		N/A	
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	Cot x Or cot	N/A	
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	Or Cox	N/A	
6.5	Internal and external wiring	ir Or Cor	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):	Or Care Or	_	
6.5.3	Requirements for interconnection to building wiring	cet or cet	N/A	

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0/	IEC 62368-1		
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6.6	Safeguards against fire due to connection to additional equipment	· Or Cay	N/A
07.0	External port limited to PS2 or complies with Clause Q.1	Cott	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	
Co	Instructional safeguard (ISO 7010)	Olin Carl	_	
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 ·
8.2	Mechanical energy source classifications	MS1	P
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 Court	N/A
8.5	Safeguards against moving parts	Q, Co, " O,	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	ix O' cer	N/A
8.5.2	Instructional Safeguard	Lice is of cent	_
8.5.4	Special categories of equipment comprising moving parts	Orice St. Dr.	N/A
8.5.4.1	Large data storage equipment		N/A

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ON	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2	Equipment having electromechanical device for destruction of media	Dr. Corr Dr.	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:	Di or	
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N):		N/A
8.5.5	High Pressure Lamps	X OV COR	N/A
8.5.5.1	Energy Source Classification	Cer x Or 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	O. Y	N/A
OV.	Instructional Safeguard:	- 3× 0	_
8.6.2	Static stability	COX.	N/A
8.6.2.2	Static stability test	Di Car	N/A
Co	Applied Force:	ON CONT.	, _
8.6.2.3	Downward Force Test	a or cor	N/A
8.6.3	Relocation stability test	X OV CER	N/A
0,	Unit configuration during 10° tilt:		_
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force):	V. Co. X. OV.	⊘N/A
or ce	Position of feet or movable parts:	O Co	◇ –
8.7	Equipment mounted to wall or ceiling		N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	Or Cert	N/A
8.7.2	Direction and applied force:	O' COK O'	N/A
8.8	Handles strength	x O' cet	N/A
8.8.1	Classification	x or -or	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
9)
8.8.2	Applied Force:		N/A
8.9	Wheels or casters attachment requirements		N/A
8.9.1	Classification		N/A
8.9.2	Applied force:	Cert Co	_
8.10	Carts, stands and similar carriers	Or Cay	N/A
8.10.1	General	Or Car	N/A
8.10.2	Marking and instructions	· Or Call	N/A
	Instructional Safeguard:	at or car	_
8.10.3	Cart, stand or carrier loading test and compliance	Co of Cost	N/A
er	Applied force:	Or of the or of	_
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
O	Applied horizontal force (N)	3K	_
8.10.6	Thermoplastic temperature stability (°C):	Cert To Other	N/A
8.11	Mounting means for rack mounted equipment	D. Co.	N/A
8.11.1	General	Or Co.	N/A
8.11.2	Product Classification	· O COL	N/A
8.11.3	Mechanical strength test, variable N	Cor 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		Р
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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O'L'	IEC 623	58-1 O	E 0
Clause	Requirement + Test	Result - Remark	Verdict
-,0	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		C°
9.4.2	Instructional safeguard	:	N/A

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10	RADIATION		N/A
10.2	Radiation energy source classification	ex Ox Co.	N/A
10.2.1	General classification	A Cay	N/A
10.3	Protection against laser radiation		N/A
Cox	Laser radiation that exists equipment:		_
O'	Normal, abnormal, single-fault		N/A
O'V	Instructional safeguard:	Cet X OV Cet	_
0	Tool		_
10.4	Protection against visible, infrared, and UV radiation	Or Cey Or	N/A
10.4.1	General	St. Or Call	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:	The off contractions	N/A
10.4.1.b)	RS3 accessible to a skilled person:	TO SE ON CONT	N/A
cert	Personal safeguard (PPE) instructional safeguard:	Original Andrica	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:	· O CO	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:	Cext O' Co	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque:	Cert of Cert	N/A
10.4.1.f)	UV attenuation:	OV. OV.	⊘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	Cer Original	N/A
10.4.2	Instructional safeguard:	Or Care Or Co	N/A
10.5	Protection against x-radiation	. Or con	N/A
10.5.1	X- radiation energy source that exists equipment	× OV -oK	N/A

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Clause Requirement + Test Result - Remark Verd				
Clause	Requirement + Test	Result - Remark	Verdict	
- ex		A Solver A	col	
) ¹	Normal, abnormal, single fault conditions	V. Co. * O	N/A	
O ^V ,	Equipment safeguards:	9K	N/A	
, 0	Instructional safeguard for skilled person:	Cox O Co	N/A	
10.5.3	Most unfavourable supply voltage to give maximum radiation:	Or, Case Orice	_	
Con	Abnormal and single-fault condition	OV. Or oth	N/A	
0,	Maximum radiation (pA/kg)	, OV - 0 ^t	N/A	
10.6	Protection against acoustic energy sources	Cert , Or set	N/A	
10.6.1	General		N/A	
10.6.2	Classification	Or Col. * Orio	N/A	
) - 0	Acoustic output, dB(A):	Or Co.	N/A	
0\/.O	Output voltage, unweighted r.m.s.	St. O. Co.	N/A	
10.6.4	Protection of persons	Cox. Or Cox	N/A	
×	Instructional safeguards:	Or Cont	N/A	
Cert	Equipment safeguard prevent ordinary person to RS2	Oringe Ar Original Control	_	
OV.	Means to actively inform user of increase sound pressure	Cet Or Cet	_	
, t	Equipment safeguard prevent ordinary person to RS2		_	
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	Or Cert X	N/A	
10.6.5.1	Corded passive listening devices with analog input	et or cet	N/A	
- 0 ¹ / ₁	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output	Or Cor	_	
10.6.5.2	Corded listening devices with digital input	D. Co	N/A	
01,0	Maximum dB(A)	Con X	_	
10.6.5.3	Cordless listening device	× 0, 00,	N/A	

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OV.	Cert V	IEC 62368-1		O,
Clause	Requirement + Test	Result - Remark	k V	erdict
			Ž. Č.	
	Maximum dB(A)		X 0	

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В		NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		
B.2	Normal Operating Conditions	L'Co ix O' cer	Р	
B.2.1	General requirements:	(See summary of testing & appended test tables)	o ^r P	
Or.	Audio Amplifiers and equipment with audio amplifiers:	No audio signal terminals	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	D. Co. A. OV.	OF P	
B.3.1	General requirements:	(See appended table B.3)	Por	
B.3.2	Covering of ventilation openings	sk discourse	N/A	
B.3.3	D.C. mains polarity test	Cot.	N/A	
B.3.4	Setting of voltage selector:	No such voltage selector	N/A	
B.3.5	Maximum load at output terminals:	Or Car	N/A	
B.3.6	Reverse battery polarity		N/A	
B.3.7	Abnormal operating conditions as specified in Clause E.2.	Cet X OV Cet	N/A	
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	Р	
B.4	Simulated single fault conditions	ON COL	P	
B.4.2	Temperature controlling device open or short-circuited:	No such controlling device	N/A	
B.4.3	Motor tests	Con x Or cor	N/A	
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature:		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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\bigcirc	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
			×
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.3 & B.4)	Cer P
B.4.4.3	Short circuit of functional insulation on coated printed boards	(See appended table B.3 & B.4)	P
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	or cor	N/A
B.4.6	Short circuit or disconnect of passive components	Or Car	N/A
B.4.7	Continuous operation of components	Cot	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions		P
B.4.9	Battery charging under single fault conditions :	2,0° x 0' 00	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	No UV radiation within the EUT.	N/A
C.1.2	Requirements	ok or con	N/A
C.1.3	Test method	Si cert Or cert	N/A
C.2	UV light conditioning test	Or Care Or C	N/A
C.2.1	Test apparatus	Oliver of	N/A
C.2.2	Mounting of test samples	x O'' cet	N/A
C.2.3	Carbon-arc light-exposure apparatus	Con x Or con	N/A
C.2.4	Xenon-arc light exposure apparatus	CON X OV. CO	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	Q, X Q	N/A
D.2	Antenna interface test generator	×	N/A
D.3	Electronic pulse generator	Car Car	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A
ÉЙ	Audio amplifier normal operating conditions	Or Carr	N/A
Co	Audio signal voltage (V):		_
Q, C	Rated load impedance (Ω)	× OV colt	_

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	IEC 62368-1	Col.	
Clause	Requirement + Test	Result - Remark	Verdict
E.2	Audio amplifier abnormal operating conditions	The state of the s	N/A

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F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	P
F.1	General requirements	8× 0, 00, 1	P
	Instructions – Language:	English checked	Р
F.2	Letter symbols and graphical symbols		P _x
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.	P.C
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.	COK.
F.3.2	Equipment identification markings	See copy of marking plate.	O ^N 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	O 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 Switchs	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
F.3.5.3	Replacement fuse identification and rating marking	Or Corr	N/A	
F.3.5.4	Replacement battery identification marking:	ir or cert	N/A	
F.3.5.5	Terminal marking location	Cot	N/A	
F.3.6	Equipment markings related to equipment classification			
F.3.6.1	Class I Equipment	Q, 7\co, \tau \q\cdot	N/A	
F.3.6.1.1	Protective earthing conductor terminal		N/A	
F.3.6.1.2	Neutral conductor terminal		N/A	
F.3.6.1.3	Protective bonding conductor terminals		N/A	
F.3.6.2	Class II equipment (IEC60417-5172)	Or Copy Or Co	N/A	
F.3.6.2.1	Class II equipment with or without functional earth	O), Car	N/A	
F.3.6.2.2	Class II equipment with functional earth terminal marking		N/A	
F.3.7	Equipment IP rating marking:	IPX0, no marking is needed	_	
F.3.8	External power supply output marking		Š 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.	P O	
F.4	Instructions	Or Call	Р	
Dr. Cey	a) Equipment for use in locations where children not likely to be present - marking	Dr. Corr	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 con	N/A	
,co ^x	d) Equipment intended for use only in restricted access area	Not used in restricted access area	N/A	
01: 01:	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	Cet Or Cet X	N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
0		X V O	3
Cex	f) Protective earthing employed as safeguard		N/A
	g) Protective earthing conductor current exceeding ES 2 limits	SK OF CORK	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. Ceir & Or. Ceir	N/A
Cert	j) Replaceable components or modules providing safeguard function	Co.	N/A
F.5	Instructional safeguards	- % Co	N/A
a ^K X	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	Dicer Dicer	N/A
<u> </u>	COMPONENTS	× 0*	N/A
G.1	Switches	St Or Col.	N/A
G.1.1	General requirements		N/A
G.1.2	Ratings, endurance, spacing, maximum load	The sky of car	N/A
G.2	Relays	OV. COL	N/A
G.2.1	General requirements	No relays used	N/A
G.2.2	Overload test	Cor. Or Cor.	N/A
G.2.3	Relay controlling connectors supply power	O COL	N/A
G.2.4	Mains relay, modified as stated in G.2	Or ceix Or Co	N/A
G.3	Protection Devices	Oli cert Or	○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)	Cot O' Cot	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Thermal cut-off connections maintained and secure	A Ship Sales A	N/A
G.3.2	Thermal links	-01/2 OX CONT	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	\$ CO	N/A
QV.	Aging hours (H)	SK A Co.	_
. 🗘	Single Fault Condition	Cert Co	_
X	Test Voltage (V) and Insulation Resistance (Ω) . :	D. Car	_
G.3.3	PTC Thermistors	Or Cay	N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	Cor X Or Cor	N/A
G.3.5.2	Single faults conditions:	O SO X	N/A
G.4	Connectors	V, V, Co., X	N/A
G.4.1	Spacings	3x 0, 70, 50, x	N/A
G.4.2	Mains connector configuration:	Cox A. Co.	N/A
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely	Discort of Orico.	N/A
G.5	Wound Components	O O O	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°	Col. Or. Col.	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.	N/A
G.5.2.1	General test requirements	in the sale of the	N/A
G.5.2.2	Heat run test	t or cert	N/A
	Time (s):	L'O' IK ON CON	
Cex	Temperature (°C):		
G.5.2.3	Wound Components supplied by mains	V , C	N/A
G.5.3	Transformer		N/A-9

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	IEC 62368-1	C × V · c · C	· ·
Clause	Requirement + Test	Result - Remark	Verdict
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1 /-2, and/or IEC62368-1)	Or Colt	N/A
, O,	Position:	St. O. Cel.	_
	Method of protection:	ex Or Cor	_
G.5.3.2	Insulation	or or con	N/A
Con !	Protection from displacement of windings:		_
G.5.3.3	Overload test:	OV, COL	N/A
G.5.3.3.1	Test conditions	× OV 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 60	N/A
G.5.4	Motor	Contraction of the contraction o	N/A
G.5.4.1	General requirements	, 5° × 0	N/A
O ¹	Position	z. O	_
G.5.4.2	Test conditions	Cert O' Co'	N/A
G.5.4.3	Running overload test	25, Cay	N/A
G.5.4.4	Locked-rotor overload test	O' cet O' c	N/A
CONT	Test duration (days):		_
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		N/A
	Electric strength test (V):	O COL	_
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	× O, Cor	N/A
O,	Electric strength test (V) :	X OV COL	_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	Tico Cot	N/A
G.5.4.6.2	Tested in the unit	Dy Cay 1 Vic	N/A
OV.	Maximum Temperature:	OV CONT.	N/A
7 ,0	Electric strength test (V):	X O COT	N/A

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\bigcirc	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):	Or Corr	N/A
7 C6	Electric strength test (V):	er O' Cer i	N/A
G.5.4.7	Motors with capacitors	Con Con	N/A
G.5.4.8	Three-phase motors	The series of the contract of	N/A
G.5.4.9	Series motors		N/A
Col	Operating voltage:	OL' COR O	_
G.6	Wire Insulation	x O' cot	N/A
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation	Con x Ox co	N/A
G.7	Mains supply cords	O CON X	N/A
G.7.1	General requirements	\$ \$\dot\ \cdot\	N/A
Q ¹ /	Type:	3 ^x	_
	Rated current (A)	Cox Cox	_
X	Cross-sectional area (mm2), (AWG):	N. Con.	_
G.7.2	Compliance and test method	Or Car	N/A
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords	. Or cert	N/A
G.7.3.2	Cord strain relief	Cort Victoria	N/A
G.7.3.2.1	Requirements		N/A
2,50	Strain relief test force (N):	Dr. Car.	_
G.7.3.2.2	Strain relief mechanism failure	Q, Co, ' Q,	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	" On "	_
G.7.3.2.4	Strain relief comprised of polymeric material	CONT. ON CONT.	N/A
G.7.4	Cord Entry:	Sir Or Con	N/A
G.7.5	Non-detachable cord bend protection	Or cor	N/A
G.7.5.1	Requirements	Oliverial Oliverial	N/A
G.7.5.2	Mass (g)		N/A

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\bigcirc	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
-e ^t	Diameter (m)	O CONTRACTOR	N/A
	Temperature (°C):	♦, ⁷ . `co, ⁹ .	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	Or Cay Or Car	N/A
G.8	Varistors	Or Celt	N/A
G.8.1	General requirements	F ON COL	N/A
G.8.2	Safeguard against shock	St. Or Cay.	N/A
G.8.3	Safeguard against fire	Co it of con	N/A
G.8.3.2	Varistor overload test:		N/A
G.8.3.3	Temporary overvoltage:		N/A
G.9	Integrated Circuit (IC) Current Limiters	, 00° 00° 00° 00° 00° 00° 00° 00° 00° 00	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	Cert in the cert	N/A
G.9.1 c)	Supply source does not exceed 250 VA:	OV. CON. NO.	N/A
G.9.1 d)	IC limiter output current (max. 5A):	Or Cours	N/A
G.9.1 e)	Manufacturers' defined drift:	, O, Co, Y	_
G.9.2	Test Program 1	Cay Or Cay	N/A
G.9.3	Test Program 2	Con Con	N/A
G.9.4	Test Program 3	Or cert Or c	N/A
G.10	Resistors	OV. Cet. O	○ N/A
G.10.1	General requirements	No such resistors used	N/A
G.10.2	Resistor test		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	Or Carr Or Carr	N/A
G.10.3.1	General requirements	OV. COR.	N/A
G.10.3.2	Voltage surge test	, or or	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.10.3.3	Impulse test	V 700 F V	N/A
G.11	Capacitor and RC units		N/A
G.11.1	General requirements	- S _Y	N/A
G.11.2	Conditioning of capacitors and RC units	Cath Co	N/A
G.11.3	Rules for selecting capacitors	ON CONT.	N/A
G.12	Optocouplers	Or Car	N/A
Or. Or.	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	Court Or Court	N/A
× ×	Type test voltage Vini:		_
	Routine test voltage, Vini,b:	Or Car	
G.13	Printed boards	Or Cay	P
G.13.1	General requirements	at of con	P
G.13.2	Uncoated printed boards	Ser Or Con	Р
G.13.3	Coated printed boards	or or or car	N/A
G.13.4	Insulation between conductors on the same inner surface	Or Cost of 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:	O, Co, Y O,	N/A
	Number of insulation layers (pcs):	\$ 50° × \$	_
G.13.6	Tests on coated printed boards	3K V CO X	N/A
G.13.6.1	Sample preparation and preliminary inspection	Cox Cox	N/A
G.13.6.2a)	Thermal conditioning	OV. CONT. CONT.	N/A
G.13.6.2b)	Electric strength test	O' Coli	N/A
G.13.6.2c)	Abrasion resistance test	ON CONT	N/A
G.14	Coating on components terminals	V OV - etc	N/A

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	IEC 62368-1	C x O' sex	
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	OV. OF CO	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) (Sec.)	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	COL DI COL	N/A
C2)	Test voltage:	Cox Or Cox	_
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	Or Cert V Or Ce	o [∞] N/A
D2)	Capacitance:	3 ^x	_
D3)	Resistance:	COX OX	_
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	S	N/A
HA ,	General	Or Control	N/A
H.2	Method A	OV COT	N/A
H.3	Method B	, OV - oX	N/A

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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
H.3.1	Ringing signal		N/A	
H.3.1.1	Frequency (Hz):	D, 7.00, 7. 0,	_	
H.3.1.2	Voltage (V):		_	
H.3.1.3	Cadence; time (s) and voltage (V):		_	
H.3.1.4	Single fault current (mA)::	Or Car A. Ca.	_	
H.3.2	Tripping device and monitoring voltage:	Oh. Cal.	N/A	
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	x Or cor	N/A	
H.3.2.2	Tripping device	Con x OV con	N/A	
H.3.2.3	Monitoring voltage (V) :	Con x OV co	_	
J	INSULATED WINDING WIRES FOR USE WITHO	OUT INTERLEAVED INSULATION	N/A	
	General requirements	⟨ , , , , , , , , , , , , , , , , , , ,	N/A	
K	SAFETY INTERLOCKS		N/A	
K.1	General requirements		N/A	
K.2	Components of safety interlock safeguard mechanism		N/A	
K.3	Inadvertent change of operating mode		N/A	
K.4	Interlock safeguard override		N/A	
K.5	Fail-safe		N/A	
	Compliance:		N/A	
K.6	Mechanically operated safety interlocks		N/A	
K.6.1	Endurance requirement		N/A	
K.6.2	Compliance and Test method:		N/A	
K.7	Interlock circuit isolation		N/A	
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):		N/A	
K.7.2	Overload test, Current (A):		N/A	
K.7.3	Endurance test		N/A	
K.7.4	Electric strength test:		N/A	

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OF	Cert	V. Co	IEC 62368-1	Cer	\Diamond_{λ}
Clause	Requirement + Test	,,,,,,	. O	Result - Remark	Verdict

Report No.: DL-20210624011-5S

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
M	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

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

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O.I.					
Clause	Requirement + Test Result - Remark	Verdict			
VI.8	Protection against internal ignition from external spark sources of lead acid batteries	N/A			
M.8.1	General requirements	N/A			
M.8.2	Test method	N/A			
M.8.2.1	General requirements	N/A			
M.8.2.2	Estimation of hypothetical volume Vz (m3/s):	_			
M.8.2.3	Correction factors:	_			
M.8.2.4	Calculation of distance d (mm):	_			
M.9	Preventing electrolyte spillage	N/A			
M.9.1	Protection from electrolyte spillage	N/A			
M.9.2	Tray for preventing electrolyte spillage	N/A			
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing):	N/A			
N	ELECTROCHEMICAL POTENTIALS	N/A			
	Metal(s) used :	_			
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES				
	Figures O.1 to O.20 of this Annex applied:	_			
P	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS	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			

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OV.	IEC 62368-1	Cox V	O.
Clause	Requirement + Test	Result - Remark	Verdict
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts		N/A
P.4.2 a)	Conditioning testing		N/A
	Tc (°C):		_
	Tr (°C):		_
	Ta (°C)		_
P.4.2 b)	Abrasion testing:		N/A
P.4.2 c)	Mechanical strength testing:		N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION	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

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
0,	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	2 2 C	
R.2	Determination of the overcurrent protective device and circuit		N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).		N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	,	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C):		_
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C):		_
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A

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O,	IEC 62368-1	S S S			
Clause	Requirement + Test	Result - Remark	Verdict		
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	X X V C	N/A		
	Samples, material:		_		
	Wall thickness (mm):		_		
	Conditioning (test condition), (°C):		_		
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A		
	After every test specimen was not consumed completely		N/A		
	After fifth flame application, flame extinguished within 1 min		N/A		
Т	MECHANICAL STRENGTH TESTS				
Т.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		
Т.7	Drop test:	The UUT subjected to three impacts. 1000mm.	Р		
T.8	Stress relief test:	70 ℃	Р		
Т.9	Impact Test (glass)	No glass used	N/A		
Γ.9.1	General requirements		N/A		
Г.9.2	Impact test and compliance		N/A		
	Impact energy (J):		_		
	Height (m):		_		

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OV:	IEC 62368-1	Cott	O,
Clause	Requirement + Test	Result - Remark	Verdict
0,		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
T.10	Glass fragmentation test:		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		_
U	MECHANICAL STRENGTH OF CATHODE RAY AGAINST THE EFECTS OF IMPLOSION	TUBES (CRT) AND PROTECTION	N/A
U.1	General requirements		N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen:		N/A
v	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)		
V.1	Accessible parts of equipment	Class III equipment	N/A
V.2	Accessible part criterion		N/A

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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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4.1.2	TABL	E: List of critical com	oonents	× 0, (.0	P
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
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 batteri	es mechanical tests	N/A		
(The followi	ing mechanica	al tests are conducted in the sequ	ence noted.)	•		
4.8.4.2	TABLE: St	ress Relief test		_		
Р	art	Material	Oven Temperature (°C)	Comments		
~	O ^V	· · · · · · · · · · · · · · · · · · ·	Q)	0°		
4.8.4.3	TABLE: Ba	attery replacement test	of Opin Care	_		
Battery par	t no		The Or Care	_		
Battery Ins	tallation/witho	drawal	Battery Installation/Removal Cycle	Cycle Comments		
		· Or Cor	X 1 0 0	,		
1.8.4.4	TABLE: Dro	op test		_		
mpact Are	a	Drop Distance	Drop No.	Observations		
), Co.		O' Cer.		V 0°		
4.8.4.5	TABLE: Im	pact O	of of cert	_		
Impacts p	per surface	Surface tested	Impact energy (Nm)	Comments		
Cor	0/,0	St. Or Cal.	- A O	\(\sigma^{}\)		
4.8.4.6	TABLE: Cr	ush test	Ser I	_		
Test position Surface tested		Surface tested	Crushing Force (N)	Duration force applied (s)		

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¹⁾ 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 co	ell batteries mechanical tests	N/A
(The follo	wing mechanical tests are conducted in	n the sequence noted.)	
		· · · · · · · · · · · · · · · · · · ·	× - 0\/
<u> </u>	entary information:	of x	.0

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4.8.5	TABLE: Lithiu	m coin/button cell batteries	mechanical test result	N/A
Test p	oosition	Surface tested	Force (N)	Duration force applied (s)
×	OV cer		01 - 01 - 01 O	x - 0
Supplement	tary information:	A CONTRACTOR	O' ceit O'	CON

5.2	Table: Cl	lassification of e	electrical energy s	ources			\Diamond	Po'
5.2.2.2 -	Steady State	Voltage and Cur	rent conditions					
	01	Location (e.g.		F	Paramete	ers		
No.	Supply Voltage	circuit designation)	Test conditions	U (Vrms or Vpk)	(Apk	I or Arms)	Hz	ES Class
1.0	5.0Vdc	DC input	Normal	5.0Vdc	×	ceix		ES1
2	Co.		Normal (output + and -)	-,C°	- 0	Or. Call	- 05	ES1
est.	O, C	er ×	Single fault -SC	- O, Cer	_x		<u> </u>	
5.2.2.3 -	Capacitance I	Limits						
	Supply	Location (e.g.		F	Paramete	ers		
No.	Voltage	circuit designation)	Test conditions	Capacitance, ı	nF	Upk (V)	ES Class
	O, Co.	× 0	Normal	Or Court	×	0)/-	Tion of the second	-0
C CAN	<u>-</u>	Colt -x	Abnormal	٠- ¸٥	Ø ×)\',	e ^t <
		Or Cert	Single fault – SC/OC	er O	7. Ce.	ceit -	OV.	N. Cott
5.2.2.4 -	Single Pulses							

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	Cox.	2), O	IEC 62368-1	Col	OV ON	\Diamond
Clause	Requirement + Test	O Co	x O	Result - Remark		Verdict

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Require	ment + Test	- 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		Parameters		ES Class	
Committee	Location (e.g.			Parameters			
Voltage circuit designation)		Test conditions	Duration (ms)	Upk (V) lpk (mA)		ES Class	
9 <u></u>	-Ori cert	Normal	<u>×</u>	OV _ei	\`_	Cox	
Cocc	07.0	Abnormal	CON	01/	-01	O	
x Dicer V		Single fault – SC/OC	∑, C _®	O	- cer		
Repetitive Pu	ılses						
Supply	Location (e.g.						
Voltage	circuit designation)	Test conditions	Off time (ms)	time (ms) Upk (V) Ipk (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	Supply Location (e.g. Supply Voltage Repetitive Pulses Location (e.g. circuit designation) 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 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	OV. Cet. OV	N/A
Penetration	(mm):			_
Object/ Part	No./Material	Manufacturer/t rademark	T softening (°C)	
500	ON CONT.	01	Cer - C	,
supplementa	ary information:	-X	N Colt	y or

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O ^L		- 01	C X	IEC 623	68-1	ce ^k		Ž.	O,	
Clause	Re	quirement + Test	O.		O) I	Result - Rer	mark	,Co	Verdic	ct
)		N N	0				- N			
5.4.1.4, 6.3.2, 9.0, B.2.6	ТА	BLE: Temperature m	neasureme	nts of	-je ^{jč}	× 01.0	or cett		CÉP OV	3,5
	``O	Supply voltage (V)		: DC	5.0V	Cost.	9	ce x	_	
C.O.X		Ambient T _{min} (°C)		: 4	.0			O) ~	_	
, cott		Ambient T _{max} (°C)		· 4	0	\(\sigma^{\sigma}\)	Ç — <u>X</u>	-0	_	
	0	Tma (°C)		: 6 4	0 0	_ 🔷	G,		_	
Maximum measured temperature T of part/at:				T (°C)				Allowed T	max	
РСВ		at at	0	<u></u> 4	5.1	<u>0</u>	<u>, </u>	× – 0	130	
Plastic Encl	osur	e	OV	ر ^{ور 4}	3.6		<u>.</u>	\Diamond	Ref	
Supplement	ary	information:	,	OV.	.jei ^{či}	<u>``</u>	Dr. Cort		or ce	35
#: According	gly to	o installation instructio	n, parts on	ly can be	access	ible to skille	ed persons.	Cocc	Š	3
Temperature	еΤ	of winding:	t ₁ (°C)	$R_1(\Omega)$	t ₂ (°0	R_2 (Ω	2) T (°C)	Allowe		
- ceit			0	/ d			,	0	COL	
01/	ex	\$\tag{\tag{\tag{\tag{\tag{\tag{\tag{	χ-	0	COX.	2	<u> </u>		٠- ر	c ex
Supplement	ary	information:	0	O)	1	-ex	C	<i>.</i>	ON	

	0 -01	, ,	0 -0	_	<u>, </u>	O
5.4.1.10.3	TABLE: Ball pre	essure test of thermoplastic	s of		Or Car	N/A
Allowed imp	oression diameter	,	- ot		_	
Object/Part No./Material Manufacturer/trademark			Test temperature	(°C)	Impression diameter (mm)	
🛇	Cer	-0', "o ₁ , O ₁	, ,	01/0	- OK -	Ó, C
O	Cox	- 01/2 - 01/2	Q		or cert	O,
Supplemen	tary information:	x Oli cert	0, 00	χ.	O ^V	e ^t

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O ^V	Cox.		IEC 62368-1	Col	OV at	\Diamond
Clause	Requirement + Test	V .Co	, O	Result - Remark		Verdict

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5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimu	ım Cleara	nces/Cre	epage distance				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	νV): [©]	stil ceit C), ``\ \)	
Ø X	Pollution Degree:) ;	Or cer	O x	
Clearance	distanced between:	Required withstand Required cl voltage (mm)		Measured cl (mm)	
O ^V	Cart.		3° 3	- _K O' (
. 	N Coll	<u></u>	_C		
Supplemen	ntary information:	av. at	Or Car		

5.4.2.4	TABLE: Clearances based on electric strength test									
Test voltag	le applied between:	Required cl (mm)	Test voltage (Kv) peak/ r.m.s. / d.c.	Breakdown Yes / No						
<u>.</u>	Or Coll	O O	° - 2° - 2°	OF THE STATE OF						

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABL	E: Distance through ins	sulation meas	ulation measurements			
Distance through insulation di at/of:		Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)	
€°` x	0),) <u></u>	اق - ال	🗸	Ç x	
, , , ,	Ò	/	, CO <u>-</u>	-0/	- ot		
Supplementary info	rmation	11 0	D. Co.	× 0	, cott	O, Co,	

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O/	COL			IEC 62	368-1	oi ^r		y at	
Clause	Requiremen	t + Test	, Co	χ.	Re	esult - R	emark	Z,Co	Verdict
<u>,</u> ,,		7.0) <u> </u>	· 50`			C. 0.		C [©]
5.4.9	TABLE: Ele	ctric strength	tests	Ce,			<u> </u>	\Diamond_{\wedge}	ON/A
Test volta	ge applied betw	veen:			tage shape AC, DC)	e	Test volta	ige (V)	Breakdown Yes / No
Functiona		\Diamond_{λ}	Cer		01.0	- ex	O.	Cer	, O ^V
-	01/0	3K 0	Ç		- 0	,	×	Q, O	<u>-</u>
Basic/sup _l	plementary:	-01	O	Col		01/0	-01	\Diamond	ÇON ,
- 000		N' - O'	Ó	Ç	o ⁻ _		5 - 7	× <	,
	Coc	, , , , , , , , , , , , , , , , , , ,	o.X	O	, GOT			-01	<u> </u>
Reinforce	d: O		-01	<	Ò, Ò,	Z^		· - 0,5	
_X	Or Cer)\'	o'N		Cer		07.0	- N
0	O,		0/,	- o ^X	<	>	Cet i-	O'V	,
Routine To	ests:	CONT.		07,0	-01		Col	×	Or con
- 0	c.ex	OF COS	х.	0	, cer	_			
	ntary informationative sources h		sidered.		Oh:	Cett		Orice.	3t 01
COL	- V	<i>X</i>	OV	cer	——————————————————————————————————————	, O	, <u> </u>	OV.	Cex
5.5.2.2	TABLE: Sto	ored discharge	e on cap	acitors	2,50	\Diamond	, Co.	. 0	N/A
Supply Vo	oltage (V), Hz	Test Location	Operat Conditio S)	n (N,	Switch position On or off		sured Volta	5	Classification
	7	<u>.</u> <)	eit		N. Co	~	OV.	OSK
X-capaciton blee ICX Notes: A. Test Lo Phase to B. Opera		testing are: ating: to Phase; Pha abbreviations:						condition	

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	CSK.		IEC 62368-1	Ceik	O.
Clause	Requirement + Test	N.Co	i 0	Result - Remark	Verdict

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5.6.6.2	TABLE: Resistance of	ΓABLE: Resistance of protective conductors and terminations								
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)					
<	or set or	, C⊗ ×	OL' - ceit	Q <u></u> ,Ce	× - 0					
Suppleme	ntary information:	Or Cal		T O	Co.					

5.7.2.2, TABLE: Earthed accessible conductions 5.7.4	tive part	N/A
Supply voltage		
Location	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	current (A)
= 0\	Q	
Supplementary Information:	A Dricer A Dricer	O

6.2.2	Table: Electrica	Table: Electrical power sources (PS) measurements for classification									
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s ^{⋆)}	PS Classification						
. C	Y Cet	Power (W) :	0.185	0.185	at O						
DC input	Normal	V _A (V) :	5.0	5.0	PS1 (declared)						
O'CO	O ^V	I _A (A) :	0.037	0.037	O' G'						

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	on of Potential Ign	ition Sources (Arc	ing PIS)	N/A	
		Open circuit voltage After 3 s	Measured r.m.s	Calculated value	Arcing PIS?	
Location		(Vp)	current (Irms)	(V _p x I _{rms})	Yes / No	
cet	V <u>.</u>	O' ce	·	5° × ♦	Ge ²	

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_D) and normal operating condition rms current (I_{rms}) is greater than 15.

6.2.3.2 Table: Dete	ermination of Potentia	al Ignition Sour	ces (Resistive F	PIS)	N/A
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
, , , , ,	<u> </u>	,00	💍	- Cor	

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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Oric	Colt.	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	IEC 62368-1	Cay Or Co.	OV
Clause	Requirement + Test	0,00	, O'	Result - Remark	Verdict

Report No.: DL-20210624011-5S

8.5.5	TABLE: High Pressure Lamp		N/A			
Description	n	Values	Energy Source Classification			
Lamp type		Or Cor	_			
Manufactu	rer:	ON BOLL	_			
Cat no		st Or Car	_			
Pressure (cold) (MPa):	gir → OV Car				
Pressure (operating) (MPa):	1,00 °F - 0,00				
Operating	time (minutes):		_			
Explosion	method:		_			
Max partic	le length escaping enclosure (mm):		٠ <u>۴</u> ٠ ,			
Max partic	le length beyond 1 m (mm):	Cer - Ovi	c Or Cour			
Overall res	sult::	Con i Vio	- ot or con			
Suppleme	ntary information:	Or Cal				

					~ ~ ~
A) I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
37	0.185	JO X	-0\/	C.ex	DC input
0	007	0.185			

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			IEC	62368-	1 6						
Clause F	Requirement +	Test	, CO	<	Resul	lt - R	emark		~	Verdict	
B.3 T	ABLE: Abnor	mal operatin	g condition	n tests			COK.	. 🔷	0	e [™] P	
Ambient temperature (°C) See below										_	
Power source	for EUT: Manu	ufacturer, mod	del/type, out	tput ratin	ng et	See	cover pa	ge for details	6	_	
Component N	o. Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse curren (A)		T-coupl e	Temp. (°C)	С	Observation	
Unit	SC	5.0Vdc	7h				Туре К	45.9℃	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	Rec	juirement + T	est	,,,,,	O)	Resu	ılt - Rer	Verdict		
B.4	TAE	BLE: Fault co	ondition tests), °(₆	,*		; ~\	, <u>X</u>		© P
Ambient te	mpera	ature (°C)	<u></u>	- Q ^V	ei^	:	40		X	
Power sou	rce fo	r EUT: Manu	facturer, mode	l/type, outp	ut rating	,ei ^c	See o	cover page	for details	
Componen	nt No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	cur	use rent, A)	T-couple	Temp. (°C)	Observation
Unit		SC	5.0Vdc	10min					45.3℃	Unit shut-down immediately, no damage, no hazard.

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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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- Explosion of the battery

Shenzhen DL Testing Technology Co., Ltd.

OV	COL		, II	EC 62368-	1 6		O. Co	× .	O.
Clause	Requirement	+ Test	, Co	< <	Result	- Remark		,C°	Verdict
9		S. C.	Q (0)	6.		- 0/2	O.	Č _® ,	
Annex M	TABLE: Batt	eries							⊘Ñ/A
The tests o	f Annex M are	applicable	only when app	ropriate b	attery data	is not ava	ilable		Coll
Is it possibl	e to install the	battery in a	reverse polar	ity position	?_a^		, Co		O)
	Non-re	echargeabl	e batteries		F	Rechargeal	ole batteri	es	
	Disch	Discharging		Charging		Discharging		Reverse	d charging
	Meas.	Manuf. Specs.		Meas.	Manuf. Specs.	Meas.	Manuf. Specs.	Meas.	Manuf. Specs.
Max. currer during norm condition	X.	01,	ce ^{tt}	0), (or Ceit	راب مين	Or. Cerr	-5 ⁶ C	Δ), C ₆
Max. currer during fault condition	() Y	,e ^{it}	7), Cay	Cott	, OV.	, ce ^{tt}	\$C .	Or. Car	Cott
Test results	<u> </u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Cox.	, ,	, oe ^t	. <	Y C°		Verdict

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- Emission of flame or expulsion	on of molter	n metal	Cox	×		- oth	O,	Con
- Electric strength tests of equi	ipment afte	r complet	tion of test	s	O)			D. Co
Supplementary information:	OV.	cox	\Diamond_{\wedge}	Cer	X	OV.	ceit	\Diamond
					0		,	

	le: Add eries	litional safeguards for eq	uipment conta	ining seconda	ary lithium	N/A
Battery/Cell No.		Test conditions			Observation	
		r det derramone	U	I (A)	Temp (C)	O DOO! Valio!!
-	, o	Normal	-	- of	O , O	<u>2</u>
Took .	9,0	Abnormal	<u>2</u>	-0' -0'	🛇	Coc
- 000		Single fault –SC/OC	Col	- 07,0	X	OF COL
O	×	Normal) <u> </u>	×		O, Co,

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<u> </u>			-0	,0	x		
Or	Coll	· ·		IEC 62368-1	Cert		
Clause F	Requiremer	nt + Test	Ç	x Ó	Result - Remark	7,00	Verdict
0		×	Q 0°		- N	O,	Co,
- cor		Abnormal		50th	<u>-</u>	- O	- ceit
oet cet		Single faul	t – SC/OC	Y cett	\) 	-or cert
Supplementar	y Informati	on:		0),		ati ati	OV.
Battery identification	n -	arging at r _{lowest} (°C)	Observ	ration	Charging at T _{highest} (°C)	Obse	ervation
COL		Co a		Coil		, č.	or cor
Or 08	X	7 Co	, i	Or Ce		O at	ON CO
Supplementar	y Informati	on:		Q ^V	Cert	av at	
	V 05	. 💛	Ö	. 0	V -01	V ,Co	

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Annex Q.1	TABLE: Circuits in	ntenaea for interc	onnection wit	n building wiri	ng (LPS)	N/A
Note: Meas	ured UOC (V) with all	load circuits discon	nected:			
Output Components		U _{oc} (V)	I _{sc}	(A)	S (V	(A)
Circuit			Meas.	Limit	Meas.	Limit
output	Normal	or cer	<u> </u>	5°	0 - co	
output	sc o	- 0, 0	× 🗸	, C ,	-DV	cet
Supplemen	tary Information:	, 07,	- e ^X	O, Co.	× 0 ^V	- or

T.2, T.3, T.4, T.5	TABL	E: Steady force to	est est			N/A
Part/Loca	ation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
<u>-</u>	-01	Ö, Ö	·	D' o'	Q Co.	<u> </u>
Supplemen	tary info	ormation:	Coll	0) - 0		

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

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T.6, T.9	TAB	BLE: Impact tests	OV.	· ; o i · · · · · · · · · · · · · · · · · ·		OV.	⊘N/A
Part/Loca	tion	Material	Thickness (mm)	Vertical distance (mm)		Observation	
0	ý	- ot O	Ç® ×	OV- 68	· O	Con X	OV.
Supplement	tary inf	formation:	D, Cer	. 01	- OK	Or Cer	×

T.7 6 T	ABLE: Drop tests	x OV	Cott.		P
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation	
Complete EU	Plastic Material	Min. 1.5	1 000 mm	No energy source exceed class 1 ca	an be
Supplementary	information:	Or Co.	- 8 th - 9 th	accessed.	P

T.8	TAB	LE: Stress relief to	est	Or cott	O, ic	P
Part/Locat	ion	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Enclosur	e	Plastic Material	Min. 1.5	70	S. S.	No energy source exceed class 1 can be accessed.
Supplement	ary inf	formation:				

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OV.	Core	IEC62368_1B - ATTACHN	MENT	O,
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 BS 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	P
NTENTS	Add the follo	wing annexes:					P
	Annex ZA (n	ormative)	Normative	e references to in	ternational pu	blications	OVÍ
			with their	corresponding E	uropean publi	cations	Ĭ,
	Annex ZB (n	ormative)	Special na	ational conditions			
	Annex ZC (ir	nformative)	A-deviation	ons			2
	Annex ZD (ir	nformative)	IEC and C	CENELEC code of	designations f	or flexible	
	· ·		cords				- OC
	to the followi			erence document		Col.) N/A
			1	Note 3	4.1.15	Note	\$-
	to the following	ng list:	_&	dr. Cert	→ → →	Colt	
	to the following	ng list:	1	Note 3	4.1.15 5.4.2.3.2.2	Note	
	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	
	0.2.1 4.7.3 5.4.2.3.2.4	Note 1 and 2 Note 1 and 3	1 5.2.2.2 5.4.2.5	Note 3 Note Note 2	4.1.15 5.4.2.3.2.2 Table 13 5.4.5.1	Note 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	1 5.2.2.2 5.4.2.5 5.5.6	Note 3 Note Note 2 Note	4.1.15 5.4.2.3.2.2 Table 13 5.4.5.1 5.6.4.2.1	Note Note c Note Note 2 and 3 Note 2, 3 and	

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	V × V × V	B - ATTACHMENT	COL
Clause	Requirement + Test	Result - Remark	Verdict
	Add the following note: NOTE Z1 The use of certain substances in electronic equipment is restricted within the EU: 2011/65/EU.		N/A
4.Z1 A.Z1	Add the following new subclause after To protect against excessive current, sand earth faults in circuits connected to mains, protective devices shall be inclinated integral parts of the equipment or as pubuilding installation, subject to the following and c): a) except as detailed in b) and c), protection necessary to comply with the requirem and B.4 shall be included as parts of the b) for components in series with the mathe equipment such as the supply cordicated protection may be provided by prodevices in the building installation; c) it is permitted for pluggable equipment, dedicated overcurrent and short-circuit the building installation, provided that the protection, e.g. fuses or circuit breaker specified in the installation instructions. If reliance is placed on protection in the installation, the installation instructions except that for pluggable equipment building installation shall be regarded as	short-circuits o an a.c. uded either as arts of the owing, a), b) ective devices nents of B.3.1 ne equipment; ains input to d, appliance cuit and earth otective nent type B or to rely on t protection in the means of rs, is fully s. e building shall so state, type A the	Cert Cert Cert Cert Cert Cert Cert Cert
5.4.2.3.2.4	protection in accordance with the rating socket outlet. Add the following to the end of this sull the requirement for interconnection with the rating socket outlet.	g of the wall bclause: ith external	N/A
10.2.1	Add the following to c) and d) in table 39 For additional requirements, see 10.5.1.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5			
10.5.1	Add the following after the first paragraph:	Y CO X OY	N/A
	For RS 1 compliance is checked by measurement	O, Co,	3
	under the following conditions:	x or cer	V
	In addition to the normal operating conditions, all	ovi opi	\Diamond_{\star}
	controls adjustable from the outside by hand, by a	ny - S	
	object such as a tool or a coin, and those internal	N Co.	×
	adjustments or presets which are not locked in a		Cocc
	reliable manner, are adjusted so as to give	O. Co.	· COL
	maximum radiation whilst maintaining an intelligibl	e or corr	
	picture for 1 h, at the end of which the measureme	nt x	7
	is made.		
	NOTE Z1 Soldered joints and paint lockings are examples of	Cert V. Cer	1 .
	adequate locking.		2
	The dose-rate is determined by means of a	Y CON X OV	COL
	radiation monitor with an effective area of 10 cm²,	at O	1 A
	any point 10 cm from the outer surface of the	x or cert	,00
	apparatus.		O,
	Moreover, the measurement shall be made under	- ex	
	fault conditions causing an increase of the	N ON CON	
	high-voltage, provided an intelligible picture is		Cott.
	maintained for 1 h, at the end of which the	Dr. Cer	-01
	measurement is made.	Or cert	0
	For RS1, the dose-rate shall not exceed 1 μSv/h	OV. OK.	D, C
	taking account of the background level.	-9° × 5° ×	OV
	NOTE Z2 These values appear in Directive 96/29/Euratom of	13	
	May 1996.		Z
10.6.1	Add the following paragraph to the end of the	Y SO X	N/A
	subclause:	Or Car	1)
	EN 71-1:2011, 4.20 and the related tests methods	x or cor	
	and measurement distances apply.	N art	\Diamond_{\wedge}
10.Z1	Add the following new subclause after 10.6.5.		N/A
	10.Z1 Non-ionizing radiation from radio	Y CON	X
	frequencies in the range 0 to 300 GHz	OLY SIX OY	Ce
	The amount of non-ionizing radiation is regulated by	N C A	Coil
	European Council Recommendation 1999/519/EC		57
	of 12 July 1999 on the limitation of exposure of the		Ç

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\Diamond_{λ}	IEC62368_1B - ATTACHMENT	
Clause	Requirement + Test Result - Remark	Verdict
<i>y</i>		Ç X
	general public to electromagnetic fields (0 Hz to 300	Col
	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	ex
	hand-held and body-mounted devices, attention is	eit
	drawn to EN 50360 and EN 50566	N' at
G.7.1	Add the following note:	N/A
	NOTE Z1 The harmonized code designations corresponding to	7
O	the IEC cord types are given in Annex ZD.	
Bibliography	Add the following standards:	N/A
	Add the following notes for the standards indicated:	
	IEC 60130-9 NOTE Harmonized as EN 60130-9.	Cox
	IEC 60269-2 NOTE Harmonized as HD 60269-2.	O, Ce,
	IEC 60309-1 NOTE Harmonized as EN 60309-1.	Or
	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 seri	ies.
	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	Ø` X.
	IEC 60664-5 NOTE Harmonized as EN 60664-5.	Col
	IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).	Op. Cour
	IEC 61508-1 NOTE Harmonized as EN 61508-1.	0)
	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.	
	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.	
	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.	COS
	IEC 61643-1 NOTE Harmonized as EN 61643-1.	COL
	IEC 61643-21 NOTE Harmonized as EN 61643-21.	O) cert
	IEC 61643-311 NOTE Harmonized as EN 61643-311.	
	IEC 61643-321 NOTE Harmonized as EN 61643-321.	
	IEC 61643-331 NOTE Harmonized as EN 61643-331.	ot O
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	coit —
1.1.15	Denmark, Finland, Norway and Sweden	N/A
	To the end of the subclause the following is added:	
	Class I pluggable equipment type A intended for	

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\bigcirc	IEC62368_1B - ATTACH	IMENT	
Clause	Requirement + Test	Result - Remark	Verdict
Cott.	connection to other equipment or a network shall, i safety relies on connection to reliable earthing or if		Con
	surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.	K OLICER ST	
	The marking text in the applicable countries shall bas follows:		Cott
	In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."	ar dicer di	O), Ce,
	In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	Cox & Or Cox	
	In Norway : "Apparatet må tilkoples jordet stikkontakt"	Orice, Cerr Orice	Cett
	In Sweden : "Apparaten skall anslutas till jordat uttag"	X OV COK	Or. Co
4.7.3	United Kingdom		N/A
	To the end of the subclause the following is added. The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	Original Origina Original Original Origina Origina Origina Origina	ce ^t
5.2.2.2	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 the limits of 3,5 mA a.c. or 10 mA d.c.	ne droet droet	Cert
5.4.11.1 and	Finland and Sweden		N/A
Annex G	To the end of the subclause the following is added For separation of the telecommunication network from earth the following is applicable:	Sey of Origer	e ^{it}
	If this insulation is solid, including insulation formin part of a component, it shall at least consist of either two layers of thin sheet material, each of which		Dr. Cort

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Clause	Requirement + Test	Result - Remark	Verdict
-01	shall pass the electric strength test below, or		-01
	• one layer having a distance through insulation of a least 0,4 mm, which shall pass the electric strength test below.	, x	Dr. Cst.
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the	Car Dicer	
	insulation consisting of an insulating compound completely filling the casing, so that clearances and		o Cork
	creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	ex direction	Or Co
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and	Orices Ario	
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.	Str Or Cox	Or.
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	Or cert Or cert	
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	a process	Or Ce
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384.14 which is addition to the V3 testing in	Cert of cert	,
	60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	Original Origina Original Origina Origina Origina Origina Original	Cert
	• the additional testing shall be performed on all the test specimens as described in EN 60384-14;	Total Or Con	Or.
	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	/ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	- o ^X
5.5.2.1	Norway	Or Coll	N/A
	After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are	k O'' Cok	V. Co

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	IEC62368_1B - ATTACHN	MENT	
Clause	Requirement + Test	Result - Remark	Verdict
))			· ·
	required to be rated for the applicable line-to-line voltage (230 V).	O'COST ON	Cert
5.5.6	Finland, Norway and Sweden	ON COL	N/A
	To the end of the subclause the following is added:	x Oli cet	\(\frac{1}{2}\)
	Resistors used as basic safeguard or bridging	con and and	\Diamond_{Λ}
	basic insulation in class I pluggable equipment		X
	type A shall comply with G.10.1 and the test of G.10.2.	Oric Cer X Oric	-gov
5.6.1	Denmark	◇, [,] [,] [,] [,]	N/A
	Add to the end of the subclause	Y O' CO'	OL:
	Due to many existing installations where the	Carr Or Carr	
	socket-outlets can be protected with fuses with		
	higher rating than the rating of the socket-outlets the	Co x DY	ceit
	protection for pluggable equipment type A shall be	Or Cor	, o at
	an integral part of the equipment.	OV CON	Co
	Justification:		\Diamond_{\wedge}
	In Denmark an existing 13 A socket outlet can be	-ex	OV
	protected by a 20 A fuse.		b
5.6.4.2.1	Ireland and United Kingdom		o N/A
	After the indent for pluggable equipment type A,	O, Co, " O,	- O'T
	the following is added:	Or Car	
	- the protective current rating is taken to be 13 A,	x Oliver cert	D. Co
	this being the largest rating of fuse used in the		
	mains plug.	Co.	
5.6.5.1	To the second paragraph the following is added:		N/A
	The range of conductor sizes of flexible cords to be		COC
	accepted by terminals for equipment with a rated	O. Co.	-01
	current over 10 A and up to and including 13 A is:	. Or con	
	1,25 mm ² to 1,5 mm ² in cross-sectional area.	x Or con	O'
5.7.5	Denmark	De x Or cert	N/A
	To the end of the subclause the following is added:	Co,	o X
	The installation instruction shall be affixed to the	Or Carl	
	equipment if the protective conductor current		Co
	exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	V C° X	or ce
	Shoodad the limite of 6,6 thr tale. Of 10 thr tale.	× OY col	. , ,

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Clause	Requirement + Test	Result - Remark	Verdict
olause —	requirement + rest	Result - Remark	Verdict
5.7.6.1	Norway and Sweden	Y . CO X . OV	N/A
	To the end of the subclause the following is added:	Or Col	
	The screen of the television distribution system is		,00
	normally not earthed at the entrance of the building		\bigcirc
	and there is normally no equipotential bonding		
	system within the building. Therefore the protective	Po x Or con	,
	earthing of the building installation needs to be		
	isolated from the screen of a cable distribution	Or cost	, O x
	system.		Celt
		O _x C _o	0
	It is however accepted to provide the insulation	x or cer	×
	external to the equipment by an adapter or an	ST ON ST	\Diamond
	interconnection cable with galvanic isolator, which		, ,
	may be provided by a retailer, for example. The use		3
	manual shall then have the following or similar		-01
	information in Norwegian and Swedish language	ON COL	, Co
	respectively, depending on in what country the		
	equipment is intended to be used in:		OV.
	"Apparatus connected to the protective earthing of	X O' COL	
	the building installation through the mains	Co. S. S. S.	
	connection or through other apparatus with a		X
	connection to protective earthing – and to a	O'C GE O'	O _o ,
	television distribution system using coaxial cable,		COL
	may in some circumstances create a fire hazard.	O. Co.	
	Connection to a television distribution system	× 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	Υ ,
	therefore has to be provided through a device		
	providing electrical isolation below a certain		
	frequency range (galvanic isolator, see EN		3
	60728-11)"		Z.X
	NOTE In Norway, due to regulation for CATV-installations, and in		,Co
	Sweden, a galvanic isolator shall provide electrical insulation) Ce
	below 5 MHz. The insulation shall withstand a dielectric strength of	of Co	OVÍ
	1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	The state of the s	
		De. The series	
	Translation to Norwegian (the Swedish text will also		X
	be accepted in Norway):		Co
	"Apparater som er koplet til beskyttelsesjord via	V Co	- O'N
	nettplugg og/eller via annet jordtilkoplet utstyr – og e	r 💸 😅 🔻	
	tilkoplet et koaksialbasert kabel-TV nett, kan		O, C
	forårsake brannfare. For å unngå dette skal det		

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Clause	Requirement + Test	Result - Remark	Verdict
Olause	requirement 1 rest	Result Remark	Verdict
or Cerr	ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet." Translation to Swedish:	Or Cert Or	Cor
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".	Set Dicert Dicert	
5.7.6.2	Denmark	Carr Or Carr	N/A
	To the end of the subclause the following is added:	L' CE	
	The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	Oricest Ori	Corr
B.3.1 and B.4	Ireland and United Kingdom	at of cert	N/A
	The following is applicable:	Do x Or cert	
	To protect against excessive currents and short-circuits in the primary circuit of direct plug-in	Oricest Orice	,e ^X
	equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature	A Cost X	OV. Ce
	circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these	x Or Cer	OV:
	tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment .		₹
	until the requirements of Annexes B.3.1 and B.4 are met		Cert
G.4.2	Denmark	· Ox Cay	N/A
	To the end of the subclause the following is added:	it of cert	
	Supply cords of single phase appliances having a	per x or rest	\Diamond
	rated current not exceeding 13 A shall be provided	Con x pro	· ot
	with a plug according to DS 60884-2-D1:2011.	O, Co,	- OIL
	CLASS I EQUIPMENT provided with socket-outlets with	ON COST	C
	earth contacts or which are intended to be used in		D. Co
	locations where protection against indirect contact is		

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IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
<i>.</i> Х	required according to the wiring rules shall be provided	1 1 10	
	with a plug in accordance with standard sheet DK 2-1a		
		301	O' cel
	DK 2-5a.	of Col	
	If a single-phase equipment having a RATED CURRE	, O _Y -0,	
	exceeding 13 A or if a poly-phase equipment is provide	ed	× 0
	with a supply cord with a plug, this plug shall be in		Co.
	accordance with the standard sheets DK 6-1a in DS		Ceit
	60884-2-D1 or EN 60309-2.	Or Col	
	Mains socket outlets intended for providing power	er to	,,,
	Class II apparatus with a rated current of 2,5 A s	hall	() ()
	be in accordance DS 60884-2-D1:2011 standard		. 0
	sheet DKA 1-4a.	0 x 0 cs	
	Other current rating socket outlets shall be in	Col	
	compliance with Standard Sheet DKA 1-3a or DF	ζΔ	, Co
	1-1c.		Cert
		O. Co.	OV - OK
	Mains socket-outlets with earth shall be in	x Or con	V
	compliance with DS 60884-2-D1:2011 Standard		O.,
	Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or Dh		x. 0
	1-7a		Sex
	Justification:		- OK
	Heavy Current Regulations, Section 6c	Or Coll	
G.4.2	United Kingdom	x OV coll	N/A
	To the end of the subclause the following is adde	ed:	D, C,
			× OV
	The plug part of direct plug-in equipment shall be	x () ~ ~ ()	50
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12		
	12.11, 12.12, 12.13, 12.16, and 12.17, except that	at	S X
	the test of 12.17 is performed at not less than		Col
	125 °C. Where the metal earth pin is replaced by	an S	OY cer
	Insulated Shutter Opening Device (ISOD), the	X OY COR	
\Diamond^{\vee}	requirements of clauses 22.2 and 23 also apply.		O,
G.7.1	United Kingdom	let A	N/A
	To the first paragraph the following is added:		Se,
	Equipment which is fitted with a flexible cable or c	cord	c oth
	and is designed to be connected to a mains sock		2,0
	conforming to BS 1363 by means of that flexible		O. Co.
	cable or cord shall be fitted with a 'standard plug	'in	0)
	accordance with the Plugs and Sockets etc (Safe	V -01	

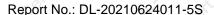
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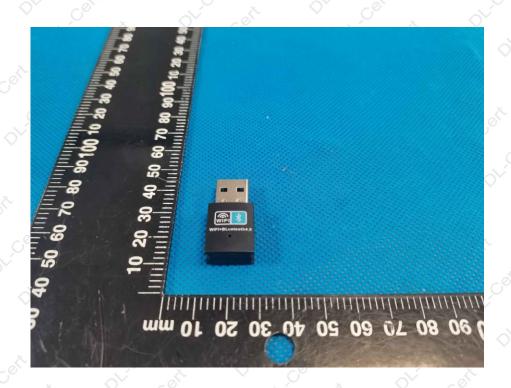
Clause	Requirement + Test	Result - Remark	Verdict
-0,5	Regulations 1994, Statutory Instrument 1994 No.		- ext
	1768, unless exempted by those regulations.	Or Court	Y - or
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially	Y ()	
	means an approved plug conforming to BS 1363 or an approved	X OV. COX	
	conversion plug.	Service Andrews	\Diamond
G.7.1	Ireland	1 cet V	N/A
	To the first paragraph the following is added:	OV. COR.	O
	Apparatus which is fitted with a flexible cable or cord		COL
	shall be provided with a plug in accordance with	Q, Co,	
	Statutory Instrument 525: 1997, "13 A Plugs and	x Or cer	C
	Conversion Adapters for Domestic Use Regulations		O.
	1997. S.I. 525 provides for the recognition of a	ceit V Co	, <
	standard of another Member State which is	CONTRACTOR OF	
	equivalent to the relevant Irish Standard		-01
G.7.2	Ireland and United Kingdom	Or Coll	N/A
	To the first paragraph the following is added:	S ON GOT	,00
	A power supply cord with a conductor of 1,25 mm ² is	s	\Diamond
	allowed for equipment which is rated over 10 A and	S. O. Co.	0)
	up to and including 13 A.	er or con	
zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)		gert.
10.5.2	Germany		N/A
	The following requirement applies:	S. Se.	01
	For the operation of any cathode ray tube intended		V ~ ()
	for the display of visual images operating at an		\bigcirc
	acceleration voltage exceeding 40 kV, authorization		<u>,</u> <
	is required, or application of type approval		
	(Bauartzulassung) and marking.	Y CO X OY	COL
	Justification:	ON COL	, or
	German ministerial decree against ionizing radiation		,00
	(Röntgenverordnung), in force since 2002-07-01,		0
	implementing the European Directive	of O. Co.	
	96/29/EURATOM.	A ON COL	
	NOTE Contact address:		o.X
	Physikalisch-Technische Bundesanstalt, Bundesallee 100,	or cor	
	D-38116 Braunschweig,		Col
	Tel.: Int +49-531-592-6320,	Y Co.	0
	Internet: http://www.ptb.de		· ()

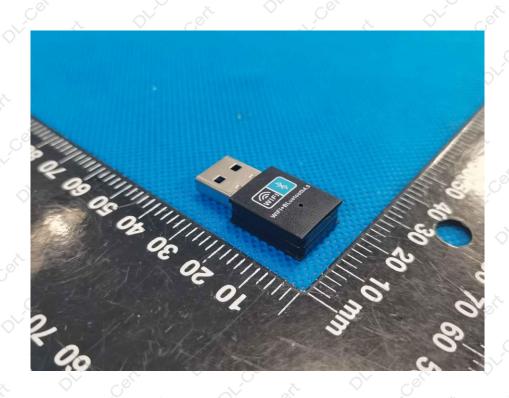
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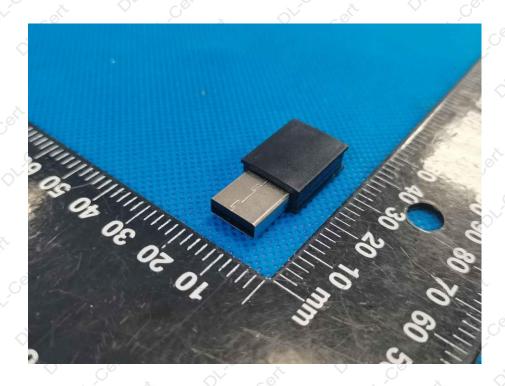
Attachment No. 2: EUT PHOTOGRAPHS





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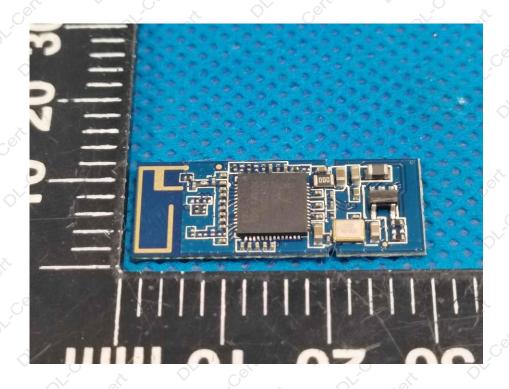


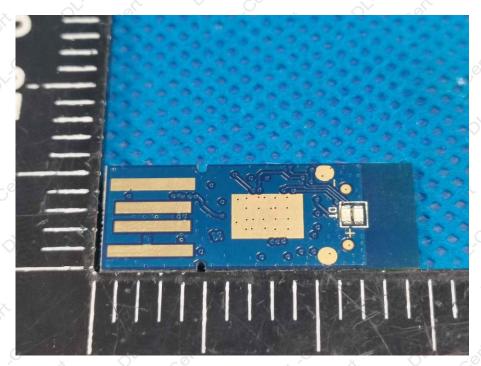




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**** END OF REPORT ****

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