

TEST REPORT

On Behalf of

Nebra Ltd

Product Name:	150Mbps 2 in 1 Bluetooth wifi adapter
Brand Name:	N/A CONTRACTOR OF CONTRACTOR O
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-20210624009-5S

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 1 of 70



TEST REPORT IEC 62368-1

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

Report Number: DL-20210624009-5S

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-20210624009-5S

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===

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 2 of 70



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:

IEC 62368-1:2014 (Second Edition)

EN 62368-1:2014+A11:2017

Testing location:

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

Report No.: DL-20210624009-5S

Summary of compliance with National Differences:

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

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

General disclaimer:

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

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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.

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 3 of 7



Report No.: DL-20210624009-5S

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:	□ movable □ hand-held □ transportable □ stationary □ for building-in □ direct plug-in □ rack-mounting □ wall-mounted
Over voltage category (OVC):	☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: not direct connection to the mains
Class of equipment:	☐ Class II ☐ Class III
Access location:	☐ restricted access location ☐ N/A
Pollution degree (PD):	□ PD 1 ⊠ PD 2 □ PD 3

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 4 of 70



Report No.: DL-20210624009-5S

Manufacturer's specified maxium operating ambient:	40 °C
IP protection class:	
Power Systems:	☐ TN ☐ TT ☐ IT V _{L-L} ⊠ N/A
Altitude during operation (m):	
Altitude of test laboratory (m):	
Mass of equipment (kg):	□ 0.01kg approx.
X O GE	X O GOL
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	ient, indoor use only.
Model Differences –	Orice of Orice Cert of Orice
Additional application considerations – (Considerations – Considerations –	ations used to test a component or sub-assembly) –

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 5 of 70

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.

Report No.: DL-20210624009-5S

Electrically-caused injury (Clause 5):

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

classification)

Example: +5 V dc input ES1

Source of electrical e	energy	O, Ce,	Correspor	nding classification (ES)	
DC input	OV, cert	O.	ES1	O' - ei	O, Co,

Electrically-caused fire (Clause 6):

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

Example: Battery pack (maximum 85 watts): PS2

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

Injury caused by hazardous substances (Clause 7)

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

Example: Liquid in filled component Glycol

Sour	ce of haza	rdous sı	ubstances			Correspond	ling chemical		
N/A	Co	Χ.	O ^L	cert	O,	N/A	O ^V	Z ^X	Q. Co

Mechanically-caused injury (Clause 8)

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

Example: Wall mount unit MS2

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

Thermal burn injury (Clause 9)

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

Example: Hand-held scanner – thermoplastic enclosure TS1

(), ~ (0),			
Source of thermal energy		Corresponding classification (TS)	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 6 of 70



ENERGY SOURCE IDENTIFICATION AND CLASS	FICATION TABLE:
External surface	TS1
Radiation (Clause 10)	
(Note: List the types of radiation present in the produc	et 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

Report No.: DL-20210624009-5S

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 7 of 70



Clause	Possible Hazard				
5.1	Electrically-caused injury				
Body Part	Energy Source				
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary	ES1: DC input	ES1: DC input N/A		N/A	
6.1	Electrically-caused fire			- 01	
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 hazardo	ous substances			
Body Part	Energy Source	Safeguards			
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	
8.1	Mechanically-caused inju				
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		Y /		
Body Part	Energy Source		Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
Ordinary	TS1: plastic enclosure	N/A	N/A	N/A	
10.1	Radiation				
Body Part	Energy Source		Safeguards		
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 8 of 70



Report No.: DL-20210624009-5S

Supplementary Information:

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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 9 of 70



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Clause	Requirement + Test	0,00	, O	Result - Remark	Verdict

Report No.: DL-20210624009-5S

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:	Car. V Car.	N/A
4.4.4.3	Drop tests:	(See Annex T.7)	P
4.4.4.4	Impact tests:	D. Cey.	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests:	(See Annex T.4)	N/A
4.4.4.6	Glass Impact tests:	No glass used	N/A
4.4.4.7	Thermoplastic material tests:	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard:	No such safeguard used	N/A
4.4.4.9	Accessibility and safeguard effectiveness		N/A
4.5	Explosion	No explosion occurs during normal/abnormal operation and single fault conditions	N/A
4.6	Fixing of conductors	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:	\$ 50° E \$	N/A
4.7	Equipment for direct insertion into mains socket - outlets	No such apparatus	N/A
4.7.2	Mains plug part complies with the relevant standard:	Ticor & Oricor	N/A
4.7.3	Torque (Nm):	Q 7/00 × Q,	N/A
4.8	Products containing coin/button cell batteries	No button cell battery used	N/A
4.8.2	Instructional safeguard	- 0K V 00 1	N/A

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 10 of 70



Ori	IEC 62368-1	Cot V	\Diamond
Clause	Requirement + Test	Result - Remark	Verdict
, jo		- S - S - S - S - S	X
4.8.3	Battery Compartment Construction		N/A
OV. Ce	Means to reduce the possibility of children removing the battery:	er of cert	N/A
4.8.4	Battery Compartment Mechanical Tests:	Col.	N/A
4.8.5	Battery Accessibility	Or Car	N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	Dr. Car	N/A

Report No.: DL-20210624009-5S

5	Electrically-caused injury		P
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits	Orice ext. Or co	Р
5.2.2.2	Steady-state voltage and current::	(See appended table 5.2)	G [®] 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	Or Cert	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Sy Original O	N/A
5.3.2.2	Contact requirements	Contraction of the contraction o	N/A
	a) Test with test probe from Annex V:	Or Cay	N/A
	b) Electric strength test potential (V):	ON. Cal.	N/A
O.	c) Air gap (mm):	S ON COL	N/A
5.3.2.4	Terminals for connecting stripped wire	it of cot	N/A

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 11 of 70



Report No.: DL-20210624009-5S

	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
5.4	Insulation materials and requirements	2 10 st	P	
5.4.1.2	Properties of insulating material	* 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	P	
5.4.1.3	Humidity conditioning::	x of cor	N/A	
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	P	
5.4.1.5	Pollution degree:	Pollution degree 2 considered	_	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	· O Cor	N/A	
5.4.1.5.3	Thermal cycling	Co x Or cor	N/A	
5.4.1.6	Insulation in transformers with varying dimensions	CO X OV GO	N/A	
5.4.1.7	Insulation in circuits generating starting pulses	\$ 50° \$ \$\frac{1}{2}\$	N/A	
5.4.1.8	Determination of working voltage	V 20° 2 0	N/A	
5.4.1.9	Insulating surfaces	35. A. Co.	N/A	
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	Ticet Orice	N/A	
5.4.1.10.2	Vicat softening temperature:	Orio Coly	N/A	
5.4.1.10.3	Ball pressure:	OV. COL.	N/A	
5.4.2	Clearances	x O' cet	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	
, Co,	a) a.c. mains transient voltage:	ON CONT		
), <u>Co</u> ,	b) d.c. mains transient voltage:	x Or Cor		
	c) external circuit transient voltage:	The officer		
,)	d) transient voltage determined by measurement	L'OS AL OV COR	_	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	Shirt Shirt	N/A	
5.4.2.5	Multiplication factors for clearances and test voltages	ix O' Cor	N/A	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 12 of 70



Report No.: DL-20210624009-5S

\Diamond_{\wedge}	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.3	Creepage distances:	A Contract of Cont	N/A
5.4.3.1	General	\$ 50° × \$	N/A
5.4.3.3	Material Group:		_
5.4.4	Solid insulation	Cott	N/A
5.4.4.2	Minimum distance through insulation:		N/A
5.4.4.3	Insulation compound forming solid insulation	Or Car	N/A
5.4.4.4	Solid insulation in semiconductor devices	. Or cor	N/A
5.4.4.5	Cemented joints	The opening the same of the sa	N/A
5.4.4.6	Thin sheet material	Contraction of Contraction	N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		oN/A
or cer	Number of layers (pcs):		N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:	Ticer 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	OV 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	\$ 20° × \$	N/A
or cer	Insulation resistance (M Ω):	Q, 72, 9, 9	_
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. Cer. D. Cer.	N/A
5.4.8	Humidity conditioning	Dy Col.	N/A
OV.	Relative humidity (%):		
~	Temperature (°C):	The Opening Contraction	_

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 13 of 70



Report No.: DL-20210624009-5S

\Diamond_{Λ}	IEC 62368-1	Co. No.	~
Clause	Requirement + Test	Result - Remark	Verdict
X.			
Co.	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	Cott	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 Ori cott	N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test::	Contraction of the second	N/A
5.4.10.2.3	Steady-state test:	O COL TOTAL	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	Car Or Car	N/A
5.4.11.2	Requirements	D. Corr	N/A
C AN	Rated operating voltage U _{op} (V):	Or Cay	_
a	Nominal voltage U _{peak} (V):	Col	_
	Max increase due to variation U _{sp} :	it or cert	
	Max increase due to ageing ΔU _{sa} ::		_
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$		_
5.5	Components as safeguards	V. V. V.	Cec
5.5.1	General	Ø	N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement	Cox Ox Ox	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	Dices Dices	N/A
5.5.3	Transformers	OV COL	N/A
5.5.4	Optocouplers	× OY coll	N/A

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 14 of 70



Report No.: DL-20210624009-5S

	IEC 62368-1			
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	Con V. Con	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	Or Cay Or Co.	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	Cor Vice of	N/A	
5.6.5	Terminals for protective conductors	Cert L OV - ex	N/A	
5.6.5.1	Requirement	Dr. Court	N/A	
Dr. Cox	Conductor size (mm2), nominal thread diameter (mm):	x Or Car	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):	0, ⁷ C ₀ , ⁹ O ₁	N/A	
5.6.7	Reliable earthing	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	N/A	
5.7	Prospective touch voltage, touch current and prote	ctive conductor current	N/A	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 15 of 70



Report No.: DL-20210624009-5S

	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
		N S	· ·	
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	Dicet Dice	N/A	
Cert	System of interconnected equipment (separate connections/single connection):	Olicek Olicek	_	
Dr.	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 Or Con	N/A	
Cer	Supply Voltage (V):		N/A	
O, Ce	Measured current (mA):	No Contraction of	N/A	
O,	Instructional Safeguard::	3 SY CON	N/A	
5.7.6	Prospective touch voltage and touch current due to external circuits	Dicer Dicer	N/A	
5.7.6.1	Touch current from coaxial cables	ON CONT.	N/A	
5.7.6.2	Prospective touch voltage and touch current from external circuits	x O' cer	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):	Cer Or Cer	N/A	
Or, Co	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	Di Cele	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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 16 of 70



Report No.: DL-20210624009-5S

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
) x		\$ 5°	χ.
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	CO P
6.2.2.4	PS1:	(See appended table 6.2.2)	P
6.2.2.5	PS2:	Cox Or Cox	N/A
6.2.2.6	PS3:	DY CONTRACTOR CONTRACTOR	N/A
6.2.3	Classification of potential ignition sources	Or Colk	P
6.2.3.1	Arcing PIS	No arcing PIS exists	N/A
6.2.3.2	Resistive PIS	No arcing PIS exists	N/A
6.3	Safeguards against fire under normal operating an	d abnormal operating conditions	P
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4,1.5)	P S
6.3.1 (b)	Combustible materials outside fire enclosure	× Of Gar	N/A
6.4	Safeguards against fire under single fault condition	S X OV CON	Р
6.4.1	Safeguard Method	Control of fire spread	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	V-1 Above enclosure and PCB used	P
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	OV COR	N/A
6.4.3.1	General		N/A
6.4.3.2	Supplementary Safeguards	X OV CS	N/A
Ceit d	Special conditions if conductors on printed boards are opened or peeled	Or Coly	N/A
6.4.3.3	Single Fault Conditions:	it of con	N/A
	Special conditions for temperature limited by fuse	ar Or Car	N/A
6.4.4	Control of fire spread in PS1 circuits	The state of contract	Р
6.4.5	Control of fire spread in PS2 circuits	N. O. O. O.	N/A
6.4.5.2	Supplementary safeguards:	(See appended tables 4.1.2 and Annex G)	P
6.4.6	Control of fire spread in PS3 circuit	- 8x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N/A

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 17 of 70



Report No.: DL-20210624009-5S

	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
6.4.7	Separation of combustible materials from a PIS	V 10 1 10 10 10 10 10 10 10 10 10 10 10 1	~ N/A	
6.4.7.1	General	\$\frac{1}{2} \cdot \frac{1}{2}	N/A	
6.4.7.2	Separation by distance	%	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 cert	N/A	
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	Cot X Or Cot	N/A	
6.4.8.3.1	Fire enclosure and fire barrier openings	O See X	N/A	
6.4.8.3.2	Fire barrier dimensions	Z Z Z	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)		N/A	
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	O, Coy	N/A	
6.5	Internal and external wiring	at Or Car	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	_	
6.5.3	Requirements for interconnection to building wiring	cet or cet	N/A	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 18 of 70



0,	IEC 62368-1	Cott	O
Clause	Requirement + Test	Result - Remark	Verdict
6.6	Safeguards against fire due to connection to additional equipment	O'COK V	N/A
01,	External port limited to PS2 or complies with Clause Q.1	Carr Or Carr	N/A

Report No.: DL-20210624009-5S

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
Cox	Instructional safeguard (ISO 7010)	Olin Carl	_
7.6	Batteries:	x Or Got	N/A

8	MECHANICALLY-CAUSED INJURY		
8.1	General	Enclosure is smooth and no mechanical energy sources	P P
8.2	Mechanical energy source classifications	MS1	OP.
8.3	Safeguards against mechanical energy sources	& O' Got	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	Or Col.	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	st of cot	N/A
8.5.2	Instructional Safeguard	To a dr. Cert	_
8.5.4	Special categories of equipment comprising moving parts	Orice Arithmetical	N/A
8.5.4.1	Large data storage equipment		N/A

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 19 of 70



Report No.: DL-20210624009-5S

\bigcirc	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2	Equipment having electromechanical device for destruction of media	Dr. Cerr Dr.	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	ex OV COX	N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
	Instructional Safeguard		_
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N)	, Oli cett	N/A
8.5.5	High Pressure Lamps	× 0, -0,	N/A
8.5.5.1	Energy Source Classification	Con x OV con	N/A
8.5.5.2	High Pressure Lamp Explosion Test	X OV	N/A
8.6	Stability	Solver Solver	N/A
8.6.1	Product classification	O N	N/A
OV.	Instructional Safeguard:	- 8 ^x	_
8.6.2	Static stability	Car Of Car	N/A
8.6.2.2	Static stability test	Di Car	N/A
Ç® X	Applied Force:	ON COL	<u> </u>
8.6.2.3	Downward Force Test	s or cor	N/A
8.6.3	Relocation stability test	it of con	N/A
0	Unit configuration during 10° tilt	Co or Or Cox	_
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force):		N/A
) Ce	Position of feet or movable parts:		o) —
8.7	Equipment mounted to wall or ceiling		N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	or cert or cert	N/A
8.7.2	Direction and applied force:	Oli cor	N/A
8.8	Handles strength	X OV COL	N/A
8.8.1	Classification	i ov and	N/A

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 20 of 70



Report No.: DL-20210624009-5S

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
,0			
8.8.2	Applied Force:	V Co	N/A
8.9	Wheels or casters attachment requirements		N/A
8.9.1	Classification	3 ^t	N/A
8.9.2	Applied force	Cost.	
8.10	Carts, stands and similar carriers	Dr. Cayr	N/A
8.10.1	General	Or Car	N/A
8.10.2	Marking and instructions	· O Car	N/A
	Instructional Safeguard	er Or Car	_
8.10.3	Cart, stand or carrier loading test and compliance	Co or Or Cor	N/A
er	Applied force:	O'CO RE O'C	_
8.10.4	Cart, stand or carrier impact test	OV.O GE OV	N/A
8.10.5	Mechanical stability		N/A
O	Applied horizontal force (N):		_
8.10.6	Thermoplastic temperature stability (°C):	Con the contract of the contra	N/A
8.11	Mounting means for rack mounted equipment	DY COLL	N/A
8.11.1	General	O, Co,	N/A
8.11.2	Product Classification	· O · Cor	N/A
8.11.3	Mechanical strength test, variable N	Carr	N/A
8.11.4	Mechanical strength test 250N, including end stops	Cett of Cett	N/A
8.12	Telescoping or rod antennas	V.Co	N/A
) _ (e	Button/Ball diameter (mm):	\(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(1	_

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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 21 of 70



ON.	IEC (62368-1	O,
Clause	Requirement + Test	Result - Remark	Verdict
-,0	~ C°	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
9.4.2	Instructional safeguard	:	N/A

Report No.: DL-20210624009-5S

10	RADIATION		N/A
10.2	Radiation energy source classification	× 0 0	N/A
10.2.1	General classification	Con Con	N/A
10.3	Protection against laser radiation		N/A
CONT	Laser radiation that exists equipment:	Co.	
Q /	Normal, abnormal, single-fault		N/AC
OV.	Instructional safeguard		_
	Tool		_
10.4	Protection against visible, infrared, and UV radiation	A Cor	N/A
10.4.1	General	at OV Cort	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:	of the contraction of the contra	N/A
10.4.1.b)	RS3 accessible to a skilled person:		N/A
Cert	Personal safeguard (PPE) instructional safeguard:	Dr. Cox X Dr.	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:		N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:		N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque:	Car Or Car	N/A
10.4.1.f)	UV attenuation:		N/A
10.4.1.g)	Materials resistant to degradation UV:		N/A
10.4.1.h)	Enclosure containment of optical radiation:		N/A
10.4.1.i)	Exempt Group under normal operating conditions	St. Cert. Of Cert.	N/A
10.4.2	Instructional safeguard:	Or Care Or Co	N/A
10.5	Protection against x-radiation	. Or cor	N/A
10.5.1	X- radiation energy source that exists equipment	X OV - oth	N/A

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 22 of 70



Report No.: DL-20210624009-5S

Clauses	Name - Description At . Test				
Clause	Requirement + Test	Result - Remark	Verdict		
COX.		A Solver A	col		
) ~ e	Normal, abnormal, single fault conditions	V. C. V.	N/A		
OV.	Equipment safeguards:	· ox. V V V	N/A		
,	Instructional safeguard for skilled person:	Con St. Con St.	N/A		
10.5.3	Most unfavourable supply voltage to give maximum radiation:	Or Care Orice	_		
Con	Abnormal and single-fault condition:	OV. OF OV	N/A		
0)	Maximum radiation (pA/kg)		N/A		
10.6	Protection against acoustic energy sources	Cert , Or cert	N/A		
10.6.1	General		N/A		
10.6.2	Classification	Or Col	N/A		
) - 0	Acoustic output, dB(A):	Or Col.	N/A		
	Output voltage, unweighted r.m.s.	St. O. Co.	N/A		
10.6.4	Protection of persons	Cor X	N/A		
· · · · · · · · · · · · · · · · · · ·	Instructional safeguards:	Or Car	N/A		
Cert	Equipment safeguard prevent ordinary person to RS2	Original Origina Origina Origina Origina Origina Origina Origina Origina Or	_		
Dr. Dr.	Means to actively inform user of increase sound pressure	COK OV. COK	_		
, t	Equipment safeguard prevent ordinary person to RS2		<u> </u>		
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	er or cer	N/A		
- 0 ¹ / ₁	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output	Dr. Corr. Or. Corr.			
10.6.5.2	Corded listening devices with digital input	Or Col.	N/A		
01.0	Maximum dB(A)	Co.	_		
10.6.5.3	Cordless listening device	y Or Car	N/A		

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 23 of 70



OL	IEC 623	68-1	
Clause	Requirement + Test	Result - Remark	Verdict
-,0"			V C
C.O.K.	Maximum dB(A)	:	

Report No.: DL-20210624009-5S

В	NORMAL OPERATING CONDITION TESTS, ABN TESTS AND SINGLE FAULT CONDITION TESTS		P
B.2	Normal Operating Conditions	TO TO OF COR	Р
B.2.1	General requirements:	(See summary of testing & appended test tables)	P P
01:0	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		OF P
B.3.1	General requirements	(See appended table B.3)	Por
B.3.2	Covering of ventilation openings	St. Original St.	N/A
B.3.3	D.C. mains polarity test	Carry Co	N/A
B.3.4	Setting of voltage selector:	No such voltage selector	N/A
B.3.5	Maximum load at output terminals:	Or Cay	N/A
B.3.6	Reverse battery polarity		N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	Cett V Or Cett	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	P
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	Les X OV Les X	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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 24 of 70



Report No.: DL-20210624009-5S

\Diamond_{\wedge}	IEC 62368-1	C ^O N N	
Clause	Requirement + Test	Result - Remark	Verdict
3.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.3 & B.4)	O P
3.4.4.3	Short circuit of functional insulation on coated printed boards	(See appended table B.3 & B.4)	P
3.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	or cert	N/A
3.4.6	Short circuit or disconnect of passive components	O, Cert in St.	N/A
3.4.7	Continuous operation of components		N/A
3.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	Cet & Or Cet	P
3.4.9	Battery charging under single fault conditions :	Sign of the second	N/A
	UV RADIATION		N/A
).1 _C é	Protection of materials in equipment from UV radiation	No UV radiation within the EUT.	N/A
C.1.2	Requirements	Cor. Or Cor.	N/A
C.1.3	Test method	Discourse of Contraction	N/A
D.2	UV light conditioning test	Or Care Or Co	N/A
C.2.1	Test apparatus	OL' COL	N/A
0.2.2	Mounting of test samples	x OV con	N/A
0.2.3	Carbon-arc light-exposure apparatus		N/A
0.2.4	Xenon-arc light exposure apparatus	Y O' GO'	N/A
)	TEST GENERATORS		N/A
p.1	Impulse test generators	Q, ² C ₀ , ³	N/A
0.2	Antenna interface test generator	5 ^t	N/A
D.3	Electronic pulse generator	Carried Annual Contraction of the Contraction of th	N/A
	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A
ГЙ _х	Audio amplifier normal operating conditions	Or Control	N/A
Co	Audio signal voltage (V):	O' CORT	_
0, 0	Rated load impedance (Ω):	- 0°	_

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 25 of 70



0	IEC 62368-1	1 cer	O. O.	OV
Clause	Requirement + Test	Result - Remark	2), Co.	Verdict
.0			Ž,	
E.2	Audio amplifier abnormal operating conditions	~ ~ ~		N/A

Report No.: DL-20210624009-5S

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 Car	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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 26 of 70



Report No.: DL-20210624009-5S

IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
F.3.5.3	Replacement fuse identification and rating marking	O'CONT. O'CONT.	N/A	
F.3.5.4	Replacement battery identification marking:	St. Or Car.	N/A	
F.3.5.5	Terminal marking location	at Or Car	N/A	
F.3.6	Equipment markings related to equipment classification			
F.3.6.1	Class I Equipment	0, 0, 0,	N/A	
F.3.6.1.1	Protective earthing conductor terminal		N/A	
F.3.6.1.2	Neutral conductor terminal	Cox Ox Ox	N/A	
F.3.6.1.3	Protective bonding conductor terminals		N/A	
F.3.6.2	Class II equipment (IEC60417-5172)	Or Coll	N/A	
F.3.6.2.1	Class II equipment with or without functional earth	Or Call	N/A	
F.3.6.2.2	Class II equipment with functional earth terminal marking	st of cot	N/A	
F.3.7	Equipment IP rating marking:	IPX0, no marking is needed	_	
F.3.8	External power supply output marking		N/A	
F.3.9	Durability, legibility and permanence of marking	Marking test complied	, P [×]	
F.3.10	Test for permanence of markings	After test there was no damage on the label. The marking on the label did not fade. There was no curling and lifting of the label edge.	OY P	
F.4	Instructions	Dr. Cell	Р	
Dr. Co.	a) Equipment for use in locations where children not likely to be present - marking	Dr. Cert	N/A	
O.	b) Instructions given for installation or initial use	See user manual.	Р	
	c) Equipment intended to be fastened in place	Con x Or con	N/A	
, ce ^{it}	d) Equipment intended for use only in restricted access area	Not used in restricted access area	N/A	
Or. Co	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	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 27 of 70



Report No.: DL-20210624009-5S

IEC 62368-1				
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	
Cert	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	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 28 of 70



Report No.: DL-20210624009-5S

	IEC 62368-1		
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
OV.	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	O, You	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'CO O'C	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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 29 of 70



Report No.: DL-20210624009-5S

Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1 /-2, and/or IEC62368-1):		N/A
V. O.	Position:	St. O. Cer.	_
	Method of protection:	COX OV COR	_
G.5.3.2	Insulation	DY COR	N/A
Cel x	Protection from displacement of windings:	Or cert of	_
G.5.3.3	Overload test	OLI COLL	N/A
G.5.3.3.1	Test conditions	x OV cet	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	Cot x Or cot	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	Se x or ce	N/A
G.5.4	Motor O Co		N/A
G.5.4.1	General requirements	\$ 500 X	N/A
O ^V	Position	3× 0 0	_
G.5.4.2	Test conditions	Cox Ox Sox	N/A
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test	Or Car	N/A
Co	Test duration (days):	OV Cert	
G.5.4.5	Running overload test for d.c. motors in secondary circuits	Cor Or Cor	N/A
G.5.4.5.2	Tested in the unit		N/A
	Electric strength test (V):	Or Cell . Orio	
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	x O' CO' O	N/A
	Electric strength test (V) :	x or cor	_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	Dice Cert	N/A
G.5.4.6.2	Tested in the unit	ON CONT.	N/A
OV.	Maximum Temperature:	ON CONT.	N/A
7	Electric strength test (V)	x OV COX	N/A

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 30 of 70



Report No.: DL-20210624009-5S

	IEC 62368-1	C x C x	
Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):	A Col	N/A
V	Electric strength test (V):	Sy Dy Car	N/A
G.5.4.7	Motors with capacitors	Con Con	N/A
G.5.4.8	Three-phase motors	The series of Contraction	N/A
G.5.4.9	Series motors		N/A
, Con	Operating voltage:	Orio Call	_
G.6	Wire Insulation	× OV cot	N/A
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation	X 0 28	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements	O X	N/A
OV.	Туре	ex O So x	_
	Rated current (A):	Cox O Cox	_
χ.	Cross-sectional area (mm2), (AWG):	De Con	_
G.7.2	Compliance and test method	OF GET OF S	N/A
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords	OV Cat	N/A
G.7.3.2	Cord strain relief	Cart No at	N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):	Or Coll	_
G.7.3.2.2	Strain relief mechanism failure	Or Col.	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	at of con	_
G.7.3.2.4	Strain relief comprised of polymeric material	To the second second	N/A
G.7.4	Cord Entry:	A COL	N/A
G.7.5	Non-detachable cord bend protection	Ori cott	N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g)		N/A

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 31 of 70



Report No.: DL-20210624009-5S

\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		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 O, Ca,	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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 32 of 70



Report No.: DL-20210624009-5S

	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	, OV - etc	N/A

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 33 of 70



Report No.: DL-20210624009-5S

•	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.14.1	Requirements:	(See G.13)	N/A
G.15	Liquid filled components	7. Co	N/A
G.15.1	General requirements	5K	N/A
G.15.2	Requirements	Cor. Or Co.	N/A
G.15.3	Compliance and test methods	ON CONT. CO	N/A
G.15.3.1	Hydrostatic pressure test	Or Car	N/A
G.15.3.2	Creep resistance test	· Or Car	N/A
G.15.3.3	Tubing and fittings compatibility test	er Or Car	N/A
G.15.3.4	Vibration test	Con Or Con	N/A
G.15.3.5	Thermal cycling test	OV OF	N/A
G.15.3.6	Force test	OV. Cart 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 Orionice	N/A
b) C	Impulse test using circuit 2 with Uc = to transient voltage	O' Cott	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	Cot Or Cot	N/A
C2)	Test voltage:		_
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	Or Cor X Or	N/A
D2)	Capacitance:	3° CO X	_
D3)	Resistance	Cox Ox Cox	_
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	S	N/A
HÅ ,	General	ON CONTRACTOR OF	N/A
H.2	Method A	ON COL	N/A
H.3	Method B	i Oli selt	N/A

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 34 of 70



Report No.: DL-20210624009-5S

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
H.3.1	Ringing signal	A Contract of the contract of	N/A
H.3.1.1	Frequency (Hz):	D, 150, 4 D,	_
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 Cay Or Co.	_
H.3.2	Tripping device and monitoring voltage:	Or Car	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	x OV COR	N/A
H.3.2.2	Tripping device	Con x Or con	N/A
H.3.2.3	Monitoring voltage (V) :	Con X OV Col	_
J	INSULATED WINDING WIRES FOR USE WITHO	OUT INTERLEAVED INSULATION	N/A
	General requirements	\$ 50° × \$	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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 35 of 70



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

Report No.: DL-20210624009-5S

-0)	y 0 20 y x 0	- O
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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 36 of 70



Report No.: DL-20210624009-5S

	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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 37 of 70



Report No.: DL-20210624009-5S

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			

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 38 of 70



Report No.: DL-20210624009-5S

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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 39 of 70



Report No.: DL-20210624009-5S

0)	IEC 62368-1		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Clause	Requirement + Test	Result - Remark	Verdict
R.2	Determination of the overcurrent protective device and circuit	A V O	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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 40 of 70



Report No.: DL-20210624009-5S

O	IEC 62368-1	Cort	\Diamond_{Λ}	
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	× × × 0	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			
T.1	General requirements		Р	
T.2	Steady force test, 10 N:		N/A	
T.3	Steady force test, 30 N:		N/A	
T.4	Steady force test, 100 N:		N/A	
T.5	Steady force test, 250 N:		N/A	
T.6	Enclosure impact test		N/A	
	Fall test		N/A	
	Swing test		N/A	
T.7	Drop test:	The UUT subjected to three impacts. 1000mm.	Р	
T.8	Stress relief test:	70℃	Р	
T.9	Impact Test (glass)	No glass used	N/A	
T.9.1	General requirements		N/A	
T.9.2	Impact test and compliance		N/A	
	Impact energy (J):		_	
	Height (m):		_	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 41 of 70



0	IEC 62368-1	Carr D. Carr	OV.
Clause	Requirement + Test	Result - Remark	Verdict
) ()	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
T.10	Glass fragmentation test:		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		_
U	MECHANICAL STRENGTH OF CATHODE RAY	TUBES (CRT) AND PROTECTION	N/A
	AGAINST THE EFECTS OF IMPLOSION		
U.1	General requirements		N/A
U.2	Compliance and test method for non-intrinsically		N/A
	protected CRTs		
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

Report No.: DL-20210624009-5S

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 42 of 70



OL	Cox.	, Co.	IEC 62368-1	Col	OV ON	Q.
Clause	Requirement + Test	O.	it 0	Result - Remark		Verdict

Report No.: DL-20210624009-5S

4.1.2	TABL	E: List of critical com	ponents	× 🔷 (-0	P
Object / part No.		Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
РСВ	01/	Interchangeable	Interchangeable	V-0, 130 °C	UL 94 UL 796	UL V
Enclosure		Interchangeable	Interchangeable	V-1, 130 °C	UL 94	UL E162823

Supplementary information:

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

2	O		<u> </u>	-0		
4.8.4, 4.8.5	I ABLE: I	ithium coin/button cell batterie	s mechanical tests	N/A		
	_	× × V 00°		Co.		
(The follow	wing mechanica	al tests are conducted in the seque	nce noted.)			
4.8.4.2	TABLE: St	ress Relief test		_		
	Part	Material	Oven Temperature (°C)	Comments		
4	OV	· · · · · · · · · · · · · · · · · · ·	Q	0		
4.8.4.3 TABLE: Battery replacement test			it or cor	_		
Battery part no:			ar Or Car	_		
Battery Installation/withdrawal			Battery Installation/Removal Cycle	Comments		
		· 0, 00,	1,00 gt 1 0 g			
4.8.4.4	TABLE: Dro	op test	O'C SET O'C	_		
mpact Ar	rea	Drop Distance	Drop No.	Observations		
	o ex	Or Car	So of the Column	OV.		
4.8.4.5	TABLE: Im	pact O	O'C O'C O'C O'C	_		
Impacts per surface Surface tested		Surface tested	Impact energy (Nm)	Comments		
Cert	- 0,0	Sk Or Cal	- × ×	Cer-		
4.8.4.6	TABLE: Cr	ush test		_		
Test position Surfa		Surface tested	Crushing Force (N)	Duration force applied (s)		

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 43 of 70

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.



		IEC 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
), `````` <u>`</u>
4.8.4, 4.8.5	TABLE: Lithium coin/butto	on cell batteries mechanical tests	N/A
(The follow	wing mechanical tests are conducte	ed in the sequence noted.)	·
	A St. D. G.	2 - D	, - ov
Suppleme	entary information:	CON X ON	CO

Report No.: DL-20210624009-5S

4.8.5	TABLE: Lithiu	mechanical test result	N/A	
Test p	osition	Surface tested	Force (N)	Duration force applied (s)
×	O' cet	o,co, ×	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	O
Supplement	ary information:	34 O CO. X	Oly cett Ol	C _O

5.2	Table: Cl	assification of e	electrical energy s	ources			PO
5.2.2.2 -	Steady State	Voltage and Cur	rent conditions				
	01	Location (e.g.		Parameters			
No.	Supply Voltage	circuit designation)	Test conditions	U (Vrms or Vpk)	I (Apk or Arms)	Hz	ES Class
1.0	5.0Vdc	DC input	Normal	5.0Vdc	y cet		ES1
2	V. Cerr	⇒V (V	Normal (output + and -)	- Co	Or, Cor,	·	ES1
. or	Q, `C	e x	Single fault -SC	O, Ce,	×		
5.2.2.3 -	Capacitance I	Limits					
	Supply	Location (e.g.		F	Parameters		
No.	Voltage	circuit designation)	Test conditions	Capacitance, ı	nF Upk ((V)	ES Class
	Of Co.	× 0	Normal	Or Coll	× 0\:	- oit	-0
<u> </u>	<u>-</u>	Cocc -x	Abnormal	٠- ¸٥	× -) ^V (<
		Or Cert	Single fault – SC/OC	er C	osti -	OV.	N. Cott
5.2.2.4 -	Single Pulses						

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 44 of 70



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

Report No.: DL-20210624009-5S

Clause	use Requirement + Test		Result	t - Remark		Verdict		
5.2	Table: C	lassification of	electrical energy s	cources	Cox		- O P	
		Voltage and Cu			\(\) \(\)		Co.	
	<u> </u>	<u> </u>	T				T	
No.	Supply	Location (e.g.	Test conditions		Parameters		ES Class	
	Supply	Location (e.g.			Parameters			
No.	Voltage	circuit designation)			Upk (V) Ipk (mA)		ES Class	
<u>-</u>	,9 <u>`</u>	-01, cel	Normal	<u>~</u>	-01	O	Co	
	Colt of		Abnormal	- Co	01:0	-ex	O, Co	
	Or Cerr		Single fault – SC/OC	Δ, C ₀ ,	O	Ceir		
5.2.2.5	- Repetitive Pu	ılses						
	Supply	Location (e.g.			Parameters			
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class	
	€) ×		Normal	-0° 00°	` <u></u>		OF	
	OL	Cert	Abnormal	O ^V	-0°C	0	<u>ک</u>	
		O'CO'T	Single fault – SC/OC	2 <u>1</u> . 0	- Cert	01:	Cert	
Test Co	onditions:	Oli cert	-	So.	OV. Cer		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	

Normal -Full load and no load.

Abnormal - Overload output

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

5.4.1.10.2	ABLE: Vicat softening temperature of thermoplastics									
Penetration	(mm):			_						
Object/ Part	No./Material	Manufacturer/t rademark	T softening (°C)							
500	ON CONT.	01	Cer - C	,						
supplementa	ary information:	-X	N Colt	V aš						

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 45 of 70



Report No.: DL-20210624009-5S

O ^L		- 01	C X	IEC 623	68-1	cer		Ž.	O,	
Clause	Re	quirement + Test	CO.		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 [*]
	``O	Supply voltage (V)		: DC	5.0V	Cost.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ce x	_	
C.O.X		Ambient T _{min} (°C)		: 4	.0			O) ~	_	
, oth		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)					Г _{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			\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	(mm):	, , , ,	- 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	O, Co,	χ.	O ^V	e ^t

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 46 of 70



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

Report No.: DL-20210624009-5S

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimu	m Cleara	nces/Cre	epage dista	ince			N/A
Clearance (cl) and distance (cr) at/o	. •	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)
<u> </u>	, X	- \\\	- oit	🗸	, 5° ,&	0	Cet	
- Cex		👌	- 3	<u>-</u>	,00		->\` (e ^X
Supplementary in	nformation:	×	O ^V	- O'N		. X.	O ^N	-ex

5.4.2.3	TABLE: Minimum Cleara	ances distances using	required withstand	voltage	N/A
×	Overvoltage Category (0	οV):	or cor	×	
X.	Pollution Degree:	O, So, X	Or cet	Q, 'C ₀ ,	X
Clearance	distanced between:	Required withstand Required cl voltage (mm)		Measured cl (mr	
O ^V	Cert Vice)— ₍₁	V.
, ¢	Colt.) <u></u> %	OST	T. Commercial Commerci	Or
Supplemer	ntary information:	2,0	Or Col	ali ati	

5.4.2.4	TABLE: Clearances bas	TABLE: Clearances based on electric strength test									
Test volta	ge applied between:	Required cl (mm)	Test voltage (Kv) peak/ r.m.s. / d.c.	Breakdown Yes / No							
- T	Or Coll		°								

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABL	E: Distance through ins	sulation meas	surements		N/A
Distance through insulation di at/of:		Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)
€°` x	0),) <u></u>	اق - ال	0	Ç x
, , , ,	Ò	/	, CO	-0/	- ot	
Supplementary info	rmation	11 00	D. Co.	× 0	, cott	O, Co,

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 47 of 70



Report No.: DL-20210624009-5S

				IEC 62	2368-1					
Clause	Requirement	t + Test	Ç	X	Re	esult - I	Remark	V (, ,	Verdict
9		_	0	9		V.	- K	O _X	Co	
5.4.9	TABLE: Elec	ctric strengt	h tests						0/	N/A
Test voltag	e applied betw	reen:			Itage shape (AC, DC)	е	Test v	oltage (V)		eakdown Yes / No
Functional:	Y coth	0,	Cox	×	01/0	- ex		,Ce	×	OLi
×	0).			×	0		ex	O	OO	<u> </u>
Basic/supp	lementary:									
00	*	N. Cert	0	Ç	,e		0	- 	0,	7.0°
\		OV (<u>jer</u>		-		OV			· - 0
Reinforced	· Co	OV.	co ^t		, ,C,	2		OV.	-ex	
o ^x				e X		Ce		- 0	c.ex	🗸
cet	0,	S [©] X	O'V.	c.es	<) `	Co.		Q'Z'	C. F.
Routine Te	šts:	Ce,	X	O	ceix	\Diamond	Ce	<i>y</i> ×	0)	Coth
01/	cer	O. Co) 	👌	, cott		💛	Ço,	X	⇔
	tary informatio		nsidered.		Oli av	Cerr	a.K	Or. Ce	Cett	01/
col	A, O	у Х	OV	cer		Ç) X		Ý (e C
5.5.2.2	TABLE: Sto	red dischar	ge on cap	acitors	e X	\Diamond	, Co.	X	OV.	N/A
Supply Vol	tage (V), Hz	Test Location	Operat Conditio S)	_	Switch position On or off		asured Vo		ES Clas	ssification
	2 ,00		OY	ex		J. C.	~	O)		
X-capacito bleed ICX: Notes: A. Test Loc Phase to N B. Opera	ntary informations installed for ding resistor radiation: leutral; Phase ting condition and operating condition condition and operating conditions.	testing are: ting: to Phase; Phabbreviations	s: \					ault condit	ion	Cert Cert

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 48 of 70



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

Report No.: DL-20210624009-5S

5.6.6.2	TABLE: Resistance of	protective condu	ons	N/A	
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
<	or set or	, C® ,	OV - ceit	<u> </u>	× 0
Suppleme	entary information:	Or Cell		it O	Ç.

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive par	t or or con	N/A
Supply vol	tage:	- 0 10	_
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)
<u></u> 🔊	Car Or ar	Con - No oth	Ò,
Suppleme	ntary Information:	Or Car	, ot a

6.2.2	Ta	ble: Electrical	or classification	OP .				
Source		Description	Measurement		Max Power after 3 s	Max Power after 5 s*)	PS Classification	
32)\´	Cox	Power (W)	:	0.185	0.185	ar or	
DC input		Normal	V _A (V)	:	5.0	5.0	PS1 (declared)	
N' at		O ^V	I _A (A)	:	0.037	0.037		

Supplementary Information:

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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 49 of 70



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

Report No.: DL-20210624009-5S

6.2.3.1	Table: Determination	mination of Potential Ignition Sources (Arcing PIS)								
		Open circuit voltage	Measured r.m.s							
		After 3 s	current	Calculated value	Arcing PIS?					
Location		(Vp)	(Irms)	(V _p x I _{rms})	Yes / No					
ceix	<u> </u>	d' de		ت _{بر} ب	COX.					

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.

K	6.2.3.2 Table: Determination of Potential Ignition Sources (Resistive PIS)										
25.	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					
	,500 <	<u> </u>	- , , , ,	💍	- Col.						

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.

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 50 of 7



Q ^V		ov, co,	IEC 62368-1		, C	OV.
Clause	Requirement + Test	2,00	Resul	t - Remark		Verdict

Report No.: DL-20210624009-5S

8.5.5	TABLE: High Pressure Lamp	Cert V Ce	N/A
Description	n	Values	Energy Source Classification
Lamp type		Q), Co.	_
Manufactu	irer:	0), -0 ₁	_
Cat no		St. Ox. Car.	_
Pressure (cold) (MPa):	StOr Car	
Pressure (operating) (MPa):	1,0° 2, - 0°	
Operating	time (minutes):	1,00 <u>ak</u> 00	_
Explosion	method	0V - 0K	_
Max partic	ele length escaping enclosure (mm):		Ø, °€, °
Max partic	ele length beyond 1 m (mm):	- N.O.	(
Overall res	sult::	Con 1 NO	- or Or Cour
Suppleme	ntary information:	Or Car	

TABLE: Input test		TABLE: Input test					~ ~ ~
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	037 0.185					

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 51 of 70



			IEC	62368-	℃ 1					
Clause Re	equirement +	Test	, Co	<	Resu	lt F	Remark	2), Co	- Z	Verdict
B.3 TA	ABLE: Abnor	mal operatin	g condition	n tests	OV.				5	e [√] P
Ambient tempe	rature (°C)	Co.			:	Se	e below	32	0	_
Power source f	or EUT: Manu	ufacturer, mod	del/type, out	tput ratin	ng e:	Se	e cover pa	age for details	;	_
Component No		Supply voltage, (V)	Test time (ms)	Fuse	Fuse		T-coupl e	Temp.	С	bservation
	Condition	13.12.30, (1)	(6)		(A)	,		(0)		
Unit	SC	5.0Vdc	7h				Type K	45.9℃	N	lo hazards.

Report No.: DL-20210624009-5S

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.

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 52 of 70



OL		, cit		IEC 6	2368-1	Cer	9			1	\Diamond_{r}		
Clause	Req	uirement + T	est	, , , ,	0)	Resu	ılt - Rei	mark	S,Co.	3	Verdict		
B.4	TAF	R F: Fault co	ondition tests		Č.		;**********************	90	0,	O ₀ ,	P		
Ambient te	X.	0			ei	:	40	OV. COK	, v	O)	-		
Power soul	rce fo	r EUT: Manu	facturer, mode	l/type, outp	ut rating	je. C	See	cover page	for details	,	_		
Componen	nt No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current,		current,		Ol	oservation		
Unit		SC	5.0Vdc	10min							45.3℃	imr	t it-down nediately, damage.

Report No.: DL-20210624009-5S

no hazard.

Supplementary information:

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

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 53 of 70



Report No.: DL-20210624009-5S

OV	CON		, II	EC 62368-	1 6		av.	~	0
Clause	Requirement	+ Test	, CO"	< <	Result	- Remark	V .	Co Y	Verdict
9		_	O 00				\bigcirc	CON	
Annex M	TABLE: Batt	eries	Q ^V	Cex		V.Co.	X	0)	N/A
The tests o	f Annex M are	applicable	only when app	propriate b	attery data	is not ava	ilable	O)	Cox
Is it possibl	e to install the	battery in a	a reverse polar	ity position	?		, Co.	, č	O ^V
	Non-r	echargeabl	e batteries		F	Rechargeal	ole batteri	es	
	3 3		Un-intention	Charging		Discharging		Reverse	d charging
	Meas.	Manuf. Specs.	al charging	Meas.	Manuf. Specs.	Meas.	Manuf. Specs.	Meas.	Manuf. Specs.
Max. currer during norn condition	Х.	01.01	Ce ^{tt}	0), (er Cerr	gř.	Or. Cor.	ce ^{ix} ×	0), Co
Max. currer during fault condition	O ^Y	je ^ř Ce ^ř	2 0).	Ce ^{it}	\(\frac{1}{2}\)	orit Ceit.	\$ ²	0), Co,	CO ^X
Test results	<u> </u>		ON CONT	<u>٥</u>	, ce ^t	. <	\ \C^*	C OF	Verdict
- Explosion	of the battery	<u> </u>	QV'	, CX		,			X

Annex M.4	Table: Add	ditional safeguards for eq	uipment conta	aining seconda	ary lithium	,N/A
Batter	ry/Cell	Test conditions		Measurements	i	Observation
N	0.	Tool containend	U	I (A)	Temp (C)	- Obcorvation
	0,0	Normal	-	- ×	O , C	<u>2</u>
Tor.	07:0	Abnormal	<u>2</u>	-0' -e'	🛇	Ç® .
000	, (Single fault –SC/OC	Ç®	- 07.	X) ,
O, ```		Normal	DY COL	- o		O, Co,

- Emission of flame or expulsion of molten metal

Supplementary information:

- Electric strength tests of equipment after completion of tests

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 54 of 70



O _V	Cocc		IEC 62368-1	Cox		\bigcirc
Clause Re	equirement + Test	, Co	x Ø	Result - Remark	7,00	Verdict
0	A	Q 0°	7		O'	C° L
- cer	Abnorm	al 💛	50K	<u>-</u>	- O	- Colt
ort ceit	Single fa	ault – SC/OC	Y- cert	0	<u>-</u>	-0), Cey
Supplementary	Information:		OV.	-jert	NO at	OV (
Battery	Charging at	Observ	/ation	Charging at	Obse	rvation
identification	T_{lowest}			$T_{highest}$		
Identilication	(°C)			(°C)		
, ceit	, Co	X OV	Coth	Co	. C	of ceit
Or Cert		, č	Or ce	× 0	C° air	ON CE
Supplementary	Information:	av. at	OV.	Cert	OV ON	O ^V
		0, 00,			7 6	

Report No.: DL-20210624009-5S

Annex Q.1	TABLE: Circuits in	ntended for interc	onnection wit	th building wirii	ng (LPS)	N/A
Note: Meas	ured UOC (V) with all	load circuits discon	nected:	ON, CO	, O'	Co
Output	Components	U _{oc} (V)	I _{sc}	(A)	S (V	A)
Circuit			Meas.	Limit	Meas.	Limit
output	Normal	0 - ex	\bigcirc	o°` 	DV - COT	💎
output	sc C	- 0, 0	× 💛	, CO	-OV:	-eit
Supplemen	tary Information:	× 0 ¹ /	-eit	O, Co,	× OV	- oth

T.2, T.3, T.4, T.5	TABLI	E: Steady force to	est est			or, cer	N/A
Part/Loca	ation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observ	vation
<u> </u>	-01	ф ² ,с	, ·	- N	Q C _Q		01/0
Supplemen	tary info	rmation:	,Corr	0 - 3		Çe ^k	01/

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 55 of 70



	CS.	OV. OV.	IEC 62368-1	Cert	O.
Clause	Requirement + Test	O Co	i 0	Result - Remark	Verdict

Report No.: DL-20210624009-5S

T.6, T.9	TAB	LE: Impact tests					N/A
Part/Locat	ion	Material	Thickness (mm)	Vertical distance (mm)		Observation	
		- or - O	, C® ,	01-		Co.	0\/
Supplementa	ary inf	ormation:	Dr Col		-012	O, Cey	

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:				

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 56 of 70



	Cert	IEC62368_1B - ATTACHN	MENT	\bigcirc
Clause	Requirement + Test	Co of Oli	Result - Remark	Verdict

Report No.: DL-20210624009-5S

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

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

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

Attachment Form No. EU_GD_IEC62368_1B_II

Attachment Originator...... Nemko AS

Master Attachment Date 2017-09-22

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	CENELEC C	COMMON MOD	DIFICATIO	NS (EN)			3
,0 ¹	<)' ~ (oclauses, notes 3-1:2014 are pre	. /	ures and annexe	s which are a	dditional to those	Cert
NTENTS	Add the follo	wing annexes:	O ^V	COL	Co	χ 0	
	Annex ZA (n	ormative)	Normative	e references to in	ternational pu	ıblications	0
	50 ×		with their	corresponding E	uropean publi	cations	
	Annex ZB (n	ormative)	Special na	ational conditions			
	Annex ZC (ir	nformative)	A-deviation	ns			X
	Annex ZD (ir	nformative)	IEC and C	CENELEC code of	designations f	or flexible	J.O.
			cords				C.
	Delete all the		s in the rele	rence document	(120 02300 1	.2014) according	,
	Delete all the to the following 0.2.1		1	Note 3	4.1.15	Note	,
	to the following	ng list:		Dr. Cert		Colu	, cor
	to the following 0.2.1	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	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	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 57 of 7



Report No.: DL-20210624009-5S

	IEC62368_1B - ATTACHI	Y X	
Clause	Requirement + Test	Result - Remark	Verdict
<i>0</i> * X.			×
1	Add the following note:		N/A
	NOTE Z1 The use of certain substances in electrical and	V 200 x 0	SY COS
	electronic equipment is restricted within the EU: see Directive		
	2011/65/EU.	x Or con	
1.Z1	Add the following new subclause after 4.9:	Col x OV con	N/A
	To protect against excessive current, short-circuits		X.
	and earth faults in circuits connected to an a.c.	OV COR	9° x.
	mains, protective devices shall be included either as	s V	Cox
	integral parts of the equipment or as parts of the	S. Co.	0
	building installation, subject to the following, a), b)	e Or Coll	
	and c):		\Diamond
	a) except as detailed in b) and c), protective devices	s con	, <
	necessary to comply with the requirements of B.3.1		3
	and B.4 shall be included as parts of the equipment		COL
	b) for components in series with the mains input to	O, Co,	, ort
	the equipment such as the supply cord, appliance	S ON COR	
	coupler, r.f.i. filter and switch, short-circuit and earth		\Diamond
	fault protection may be provided by protective		0)
	devices in the building installation;		
	c) it is permitted for pluggable equipment type B o	r Cox	eit
	permanently connected equipment, to rely on	O, Co,	
	dedicated overcurrent and short-circuit protection in	OY COL	Ç
	the building installation, provided that the means of		0,
	protection, e.g. fuses or circuit breakers, is fully	× V Co	OVÍ
	specified in the installation instructions.		· ·
	If reliance is placed on protection in the building	Co Ov.	
	installation, the installation instructions shall so state		× .
	except that for pluggable equipment type A the		Co.
	building installation shall be regarded as providing		e cer
	protection in accordance with the rating of the wall	S Or Cox	
	socket outlet.	x or cor	
5.4.2.3.2.4	Add the following to the end of this subclause:		N/A
	The requirement for interconnection with external		
COX.	circuit is in addition given in EN 50491-3:2009.	V So x OV	C.O.X
10.2.1	Add the following to c) and d) in table 39:	O. Co.	N/A
	For additional requirements, see 10.5.1.	× OV - ex	,0

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 58 of 70



Report No.: DL-20210624009-5S

~	IEC62368_1B - ATTACH	y ov col	
Clause	Requirement + Test	Result - Remark	Verdict
10.5.1	Add the following after the first paragraph:		N/A
	For RS 1 compliance is checked by measurement	Or Car	3
	under the following conditions:	x Oliver ext	S Co.
	In addition to the normal operating conditions, all		
	controls adjustable from the outside by hand, by an	NV - BET STORY	
	object such as a tool or a coin, and those internal		
	adjustments or presets which are not locked in a	Co x	COX
	reliable manner, are adjusted so as to give	Dr Cell	
	maximum radiation whilst maintaining an intelligible		Ç
	picture for 1 h, at the end of which the measuremen		O, C
	is made.	. X	OV
	NOTE Z1 Soldered joints and paint lockings are examples of	of Or Cell	
	adequate locking.	S X OY	e l
	The dose-rate is determined by means of a	O' COL	, X
	radiation monitor with an effective area of 10 cm², a	at or con	,000
	any point 10 cm from the outer surface of the), Ce,
	apparatus.	X Z Z	OV
	Moreover, the measurement shall be made under	ex Or Col	
	fault conditions causing an increase of the	To a direction	
	high-voltage, provided an intelligible picture is		a the
	maintained for 1 h, at the end of which the	Or Coll	
	measurement is made.		,Co,
	For RS1, the dose-rate shall not exceed 1 μSv/h	V 00 8	0
	taking account of the background level.		
	NOTE Z2 These values appear in Directive 96/29/Euratom of 1	3 2 0 0	
	May 1996.	Con x OV	o X
10.6.1	Add the following paragraph to the end of the		N/A
10.0.1	subclause:	OY COL	CO IN/A
			D) Ce,
	EN 71-1:2011, 4.20 and the related tests methods	Y CO	OV.
	and measurement distances apply.		
10.Z1	Add the following new subclause after 10.6.5.		N/A
	10.Z1 Non-ionizing radiation from radio	Co	-oit
	frequencies in the range 0 to 300 GHz	Or Coll	, C
	The amount of non-ionizing radiation is regulated b	y or or	Co
	European Council Recommendation 1999/519/EC	V C X	0
	of 12 July 1999 on the limitation of exposure of the	× 0, 00,	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 59 of 70



Report No.: DL-20210624009-5S

IEC62368_1B - ATTACHMENT			Ţ
Clause	Requirement + Test	esult - Remark	Verdict
X.	T		X
	general public to electromagnetic fields (0 Hz to 300 GHz).		Co
	For intentional radiators, ICNIRP guidelines should		Cost
	be taken into account for Limiting Exposure to		OV
	Time-Varying Electric, Magnetic, and		0)
	Electromagnetic Fields (up to 300 GHz). For		_
	hand-held and body-mounted devices, attention is		, cit
	drawn to EN 50360 and EN 50566		e cit
G.7.1	Add the following note:		N/A
	NOTE Z1 The harmonized code designations corresponding to		
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:		1
	IEC 60130-9 NOTE Harmonized as EN 601	30-9.	Co
	IEC 60269-2 NOTE Harmonized as HD 602	269-2.	Č _©
	IEC 60309-1 NOTE Harmonized as EN 603	309-1.	0,
	IEC 60364 NOTE some parts harmonize	ed in HD 384/HD 60364 series.	0,
	IEC 60601-2-4 NOTE Harmonized as EN 6060	1-2-4.	X
	IEC 60664-5 NOTE Harmonized as EN 6066	64-5.	Ø
	IEC 61032:1997 NOTE Harmonized as EN 61032:	:1998 (not modified).	Coll
	IEC 61508-1 NOTE Harmonized as EN 6150	08-1.	
	IEC 61558-2-1 NOTE Harmonized as EN 61558	8-2-1.	OV.
	IEC 61558-2-4 NOTE Harmonized as EN 61558	8-2-4.	<
	IEC 61558-2-6 NOTE Harmonized as EN 61558	8-2-6.	
	IEC 61643-1 NOTE Harmonized as EN 6164	43-1.	Cex
	IEC 61643-21 NOTE Harmonized as EN 61643	3-21.	, cot
	IEC 61643-311 NOTE Harmonized as EN 61643	3-311.	01/0
	IEC 61643-321 NOTE Harmonized as EN 61643	3-321.	~
	IEC 61643-331 NOTE Harmonized as EN 61643	3-331.	
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN	v	o ^k —
1.1.15	Denmark, Finland, Norway and Sweden	Z Z Z	N/A
	To the end of the subclause the following is added:		01-
	Class I pluggable equipment type A intended for		,0

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 60 of 70



Report No.: DL-20210624009-5S

Q,	IEC62368_1B - ATTACH	IIVILIN I	~
Clause	Requirement + Test	Result - Remark	Verdict
X.			X.
	connection to other equipment or a network shall,		Ce
	safety relies on connection to reliable earthing or if	V	or cor
	surge suppressors are connected between the	X O' CO'	
	network terminals and accessible parts, have a	x OY cet	
	marking stating that the equipment shall be connected to an earthed mains socket-outlet.		
		Y ser	×.
	The marking text in the applicable countries shall be	e	C C C C C C C C C C C C C C C C C C C
	as follows:	S. S.	-01
	In Denmark : "Apparatets stikprop skal tilsluttes en	Or Col	0
	stikkontakt med jord som giver forbindelse til		, O
	stikproppens jord."		
	In Finland: "Laite on liitettävä suojakoskettimilla		
	varustettuun pistorasiaan"	S x S c.	3
	In Norway : "Apparatet må tilkoples jordet	Co.	a K
	stikkontakt"	O' - ex	
	In Sweden : "Apparaten skall anslutas till jordat) Ce
	uttag"		OV
.7.3	United Kingdom	- o' O' Co'	N/A
	To the end of the subclause the following is added		
			con
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be		- oth
	assessed to the relevant clauses of BS 1363. Also		O
	see Annex G.4.2 of this annex		O,
.2.2.2	Denmark	S. O. O.	N/A
	After the 2nd paragraph add the following:	100 x 0 00	5
	A warning (marking safeguard) for high touch		-01
	current is required if the touch current exceeds the	ne or	
	limits of 3,5 mA a.c. or 10 mA d.c.	· OVER CONT.), Co.
.4.11.1 an	d Finland and Sweden		N/A
nnex G	To the end of the subclause the following is added		
	For separation of the telecommunication network		
	from earth the following is applicable:	N A ON	- eit
	If this insulation is solid, including insulation formin	D CO	
	part of a component, it shall at least consist of eith		Co
			O, C
	 two layers of thin sheet material, each of which 	× V C	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 61 of 70



Report No.: DL-20210624009-5S

Clause	Requirement + Test	Result - Remark	Verdict
			S .
	shall pass the electric strength test below, or		Celt
	one layer having a distance through insulation of a	t V V	eit .
	least 0,4 mm, which shall pass the electric strength		
	test below.	x OV coil	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
	If this insulation forms part of a semiconductor	Cert of other	
	component (e.g. an optocoupler), there is no		×
	distance through insulation requirement for the		C C C C C C C C C C C C C C C C C C C
	insulation consisting of an insulating compound	O. Co.	- oil
	completely filling the casing, so that clearances and		, O
	creepage distances do not exist, if the component	DV-C - 8th	O, O
	passes the electric strength test in accordance with		ON
	the compliance clause below and in addition		
	passes the tests and inspection criteria of 5.4.8	So x O G	
	with an electric strength test of 1,5 kV multiplied by		-0,1
	1,6 (the electric strength test of 5.4.9 shall be	O' COL	,00
	performed using 1,5 kV), and) Co
	• is subject to routine testing for electric strength		OV
	during manufacturing, using a test voltage of 1,5kV.	St. Or Co.	
	It is permitted to bridge this insulation with a	Do x or cert	
	capacitor complying with EN 60384-14:2005,	Cox.	a.X.
	subclass Y2.	Or cor	
	A capacitor classified Y3 according to EN		Co
	60384-14:2005, may bridge this insulation under the		0
	following conditions:	x Or Cor	
	the insulation requirements are satisfied by having		
	a capacitor classified Y3 as defined by EN	Cet	
	60384-14, which in addition to the Y3 testing, is		X.
	tested with an impulse test of 2,5 kV defined in		Cox
	5.4.11;	, 5° x. 6	Y cet
	the additional testing shall be performed on all the		
	test specimens as described in EN 60384-14;	x or cer	
	the impulse test of 2,5 kV is to be performed before		O,
	the endurance test in EN 60384-14, in the sequence		X.
	of tests as described in EN 60384-14.		Cel
- 2		V CO X	-6
5.5.2.1	Norway	Or Car	N/A
	After the 3rd paragraph the following is added:	x OV - ext	7 ,0
	Due to the IT power system used, capacitors are		

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 62 of 70



Report No.: DL-20210624009-5S

	IEC62368_1B - ATTACHI	MENT	
lause	Requirement + Test	Result - Remark	Verdict
ŷ.			X
	required to be rated for the applicable line-to-line voltage (230 V).	Or Copy	Cocc
5.5.6	Finland, Norway and Sweden	Cor Cor	N/A
	To the end of the subclause the following is added:	K OVIC COR	
	Resistors used as basic safeguard or bridging	Co. The second	\Diamond
	basic insulation in class I pluggable equipment		X
	type A shall comply with G.10.1 and the test of G.10.2.	Or Care & Or	oo' eit
5.6.1	Denmark	A Sec. X	N/A
	Add to the end of the subclause	The Discourse	Ohio
	Due to many existing installations where the	Cert Or Cert	
	socket-outlets can be protected with fuses with	Jo x or of	
	higher rating than the rating of the socket-outlets the		-01
	protection for pluggable equipment type A shall be	ON COL	
	an integral part of the equipment.), Co
	Justification:		OV.
	In Denmark an existing 13 A socket outlet can be	St. O. Co.	
	protected by a 20 A fuse.	in a direction	
.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for pluggable equipment type A,	O, Co,	- oit
	the following is added:	Or Car	C
	- the protective current rating is taken to be 13 A		O,
	this being the largest rating of fuse used in the		
	mains plug.		
.6.5.1	To the second paragraph the following is added:		N/A
	The range of conductor sizes of flexible cords to be		COIL
	accepted by terminals for equipment with a rated	Or Cor	
	current over 10 A and up to and including 13 A is:	OV CON	, Co
			\Diamond_{\wedge}
	1,25 mm ² to 1,5 mm ² in cross-sectional area.	Co.	
.7.5	Denmark	is or core	N/A
	To the end of the subclause the following is added:		- eit
	The installation instruction shall be affixed to the	O, Co,	art.
	equipment if the protective conductor current	OV - oth	Ç
	X S S S S S S S S S S S S S S S S S S S		

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 63 of 70



Report No.: DL-20210624009-5S

5.7.6.1	Norway and Sweden To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar information in Norwegian and Swedish language	ter Direct Direct Direct Direct Dire	N/A N/A
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar	ter Direct Direct Direct Direct Dire	
	The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar	ter Direct Direct Direct Direct Dire	et di cet
	normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar	Jek V Cek V Cek	
	and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar	Jek V Cek V Cek	
	system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar	Or Or Or Cert	
	earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar	Or Or Or Cert	
	isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar		
	system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar		
Dr. Cert	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar		
	external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar		
	external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar		
~ (interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The use manual shall then have the following or similar		
	may be provided by a retailer, for example. The use manual shall then have the following or similar		Cot
× 0,	manual shall then have the following or similar	Cer . O	,Co
			-01
0			G
C C X	respectively, depending on in what country the	X X	OF cot
	equipment is intended to be used in:	s of con	
() C	"Apparatus connected to the protective earthing of	· OV - or	
	the building installation through the mains	COL A COL	X O
	connection or through other apparatus with a		,
	connection to protective earthing – and to a		Col
Χ.	television distribution system using coaxial cable,	O, Co,	N' GIL
	may in some circumstances create a fire hazard.	Or con	
<) ~ ~ O`	Connection to a television distribution system		O, C
	therefore has to be provided through a device	× × ×	
	providing electrical isolation below a certain) it or con	
\times	frequency range (galvanic isolator, see EN	Co. * Ov.	-6
	60728-11)"	or cert	
60	NOTE In Norway, due to regulation for CATV-installations, and in	o or cont	, Co.
-01	Sweden, a galvanic isolator shall provide electrical insulation		O) Col
	below 5 MHz. The insulation shall withstand a dielectric strength of	of X	OVÍ
	1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	at or con	~
	Translation to Norwegian (the Swedish text will also	So x	er V
· ()	translation to Norwegian (the Swedish text will also be accepted in Norway):	Col.	, č
		OV. COL	Ò _{o.} *
~ 0	"Apparater som er koplet til beskyttelsesjord via	× 50° × <	ON COL
	nettplugg og/eller via annet jordtilkoplet utstyr – og e	et O, Co,	
	tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det	x or -or	Y , , C

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 64 of 70



Report No.: DL-20210624009-5S

Clause	Requirement + Test	Result - Remark	Verdict
Olause	Trequirement 1 rest	Tresuit Tremain	Verdict
or Cett	ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet." Translation to Swedish:	OF CONTROL OF	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 Dr. Cet Dr. Cet	
5.7.6.2	Denmark	, Contraction of the contraction	N/A
	To the end of the subclause the following is added:	The second second	
	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.	Or Cert Or	Corr
B.3.1 and B.	Ireland and United Kingdom	The Olivery	N/A
	The following is applicable:	Co x or cert	
	To protect against excessive currents and		o the
	short-circuits in the primary circuit of direct plug-in	Q, Co, . O,	- or
	equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature	Or Car	
	circuit breaker complying with EN 60898-1, Type B,	x OV cet	D. Co
	rated 32A. If the equipment does not pass these		\Diamond_{\wedge}
	tests, suitable protective devices shall be included	Cox V	
	as an integral part of the direct plug-in equipment		×
	until the requirements of Annexes B.3.1 and B.4 are		Cox
or to	met	V CO x O	- cot
G.4.2	Denmark		N/A
	To the end of the subclause the following is added:	at or cer	
	Supply cords of single phase appliances having a	P x or cert	
	rated current not exceeding 13 A shall be provided	Con . Av.	o ^X
	with a plug according to DS 60884-2-D1:2011.	Or Coll	
	CLASS I EQUIPMENT provided with socket-outlets with	O' COL O'	Co.
	earth contacts or which are intended to be used in	-X	D 6º
	locations where protection against indirect contact is	X V C.O.	

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 65 of 70



Report No.: DL-20210624009-5S

Clause	Requirement + Test	Result - Remark	Verdict
	V 140.00.00.00.00.00.00.00.00.00.00.00.0	, issue is a second sec	13.300
-0.1	required according to the wiring rules shall be provide	ed C	N - 05
	with a plug in accordance with standard sheet DK 2-1	a or	, , , , , , , , , , , , , , , , , , ,
	DK 2-5a.		O. Co.
	If a single-phase equipment having a RATED CURRI	ENT	
	exceeding 13 A or if a poly-phase equipment is provide	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
	with a supply cord with a plug, this plug shall be in	So x	COL
	accordance with the standard sheets DK 6-1a in DS	O, Co,	
	60884-2-D1 or EN 60309-2.	OV cor	Y.
	Mains socket outlets intended for providing pow	er to	Or Cerr
	Class II apparatus with a rated current of 2,5 A		0
	be in accordance DS 60884-2-D1:2011 standar	OY -01	
	sheet DKA 1-4a.		S. C.
		S Cor V	
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or D	KAC - O'	Co
	1-1c.	TANK X	OF COL
		O. Co.	0 - of
	Mains socket-outlets with earth shall be in	x Or con	
	compliance with DS 60884-2-D1:2011 Standard		. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or D	K C	× 0
	1-7a	ON SIX ON	Cer
	Justification:		e e e
٧.	Heavy Current Regulations, Section 6c	Or Cor	
G.4.2	United Kingdom	x or cert	N/A
	To the end of the subclause the following is add	ed:	O, O
	The plug part of direct plug-in equipment shall b	e G	× 0
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 1	× ()	J. (
	12.11, 12.12, 12.13, 12.16, and 12.17, except the		CO)
	the test of 12.17 is performed at not less than	C, Co,	N. O.K.
	125 °C. Where the metal earth pin is replaced b	y an	
	Insulated Shutter Opening Device (ISOD), the		O, Ce,
	requirements of clauses 22.2 and 23 also apply	er V	, O ^V
G.7.1	United Kingdom	St. Ox Cay	N/A
U.7.1	To the first paragraph the following is added:		IN/A
	Equipment which is fitted with a flexible cable or	cord	, it
	and is designed to be connected to a mains soo		C X
	conforming to BS 1363 by means of that flexible	X X	Or Cell
	cable or cord shall be fitted with a 'standard plug		01/
	accordance with the Plugs and Sockets etc (Sat	V OY -01	v , O

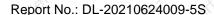
Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 66 of 70



Report No.: DL-20210624009-5S

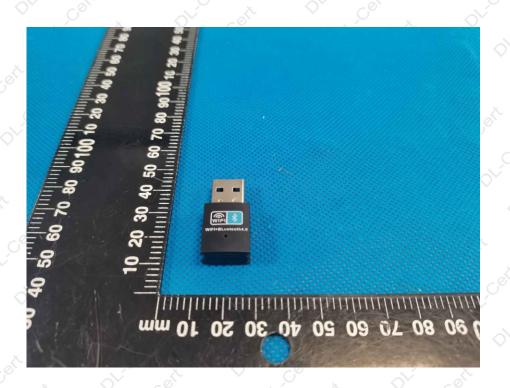
Clause	Requirement + Test	Result - Remark	Verdict
-0,5	Regulations 1994, Statutory Instrument 1994 No.		- ext
	1768, unless exempted by those regulations.	Or Court	Y - or
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially	Y ()	
	means an approved plug conforming to BS 1363 or an approved	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	
a de la companya de l	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 OV 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 cert	
	D-38116 Braunschweig,		Col
	Tel.: Int +49-531-592-6320,	Y Co.	0
	Internet: http://www.ptb.de		· ()

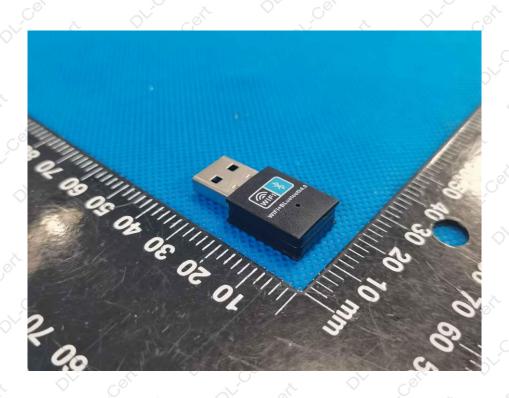
Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 67 of 70





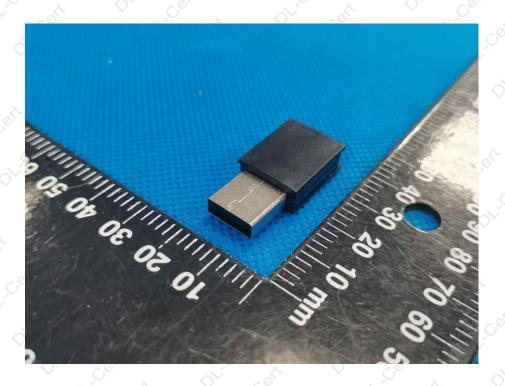
Attachment No. 2: EUT PHOTOGRAPHS





Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 68 of 70

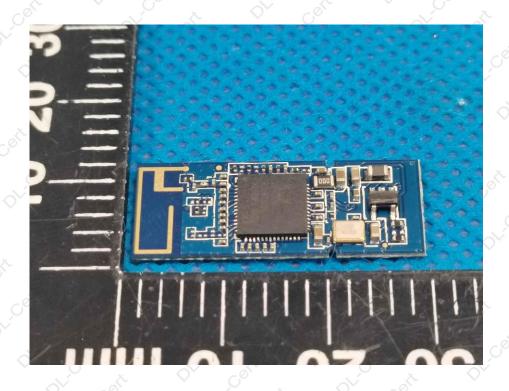


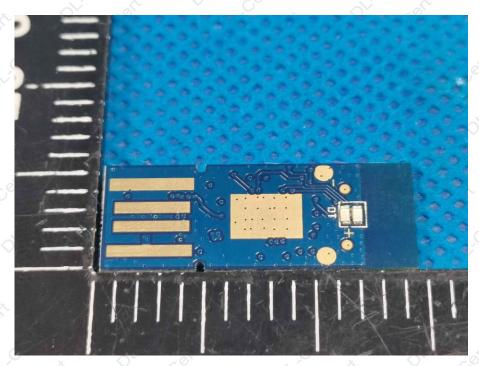




Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 69 of 70







**** END OF REPORT ****

Test Report Tel: 400-688-3552 Web: www.dl-cert.com Email: service@dl-cert.com Page 70 of 70