

TEST REPORT

Reference No.....: WTX23X12264035S

Applicant...... : Descartes System Group Inc

Address.....: 105 Trafalgar Street, Floor 2 Floor 2, Nelson, 7010 New Zealand

Manufacturer: Descartes System Group Inc

Product Name.....: COREInsight BLE Beacon Tag

Model No.....: STD004

Test specification..... : EN 62368-1:2014 +A11:2017

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample..... : 2023-12-20

Date of Test...... 2023-12-20 to 2023-12-22

Date of Issue..... : 2023-12-26

Test Report Form No...... : WTX EN62368 1 2014B

Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

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Tested by:

Ivan Zhang

Approved by:

Harvid Wei

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Test item description	: COREInsight BLE Beacon Tag
Trademark	
Model and/or type reference	
Rating(s)	Input: Powered by 3.6V, 2700mAh Lithium-ion Battery
Remark:	
Whether parts of tests for the	product have been subcontracted to other labs:
☐ Yes	No No √
If Yes, list the related test item	is and lab information:
Test items:	
Lab information:	

Summary of testing:

Tests performed (name of test and test clause):

- EN 62368-1:2014+A11:2017

The submitted samples were found to comply with the requirements of above specification.

Testing location:

Waltek Testing Group (Shenzhen) Co., Ltd. Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

Copy of marking plate:





Remark:

Above label for reference only, final label marking on product shall contain the information at least. Name and address of the Importer AND Manufacturer must be affixed on the product when the product placed on the EU market.

Minimum height of CE mark is 5mm, minimum height of WEEE mark is 7mm.

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TEST ITEM PARTICULARS:	THE WHITE WHITE WALL WAS AND WITE
Classification of use by:	 ☑ Ordinary person ☐ Instructed person ☐ Skilled person ☑ Children likely to be present
Supply Connection:	□ AC Mains □ DC Mains □ External Circuit - not Mains connected - □ ES1 □ ES2 □ ES3
Supply % Tolerance	□ +10%/-10% □ +20%/-15% □ +%/ <u>-</u> % □ None
Supply Connection – Type	 □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ mating connector □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector other: not directly connected to the mains
Considered current rating of protective device as part of building or equipment installation	N/A Installation location: □ building; □ equipment
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
Class of equipment:	☐ Class I☐ Class II⊠ Class III
Access location	☐ restricted access location⊠ N/A
Pollution degree (PD):	□ PD 1⊠ PD 2□ PD 3
Manufacturer's specified maxium operating ambient:	80°C
IP protection class	
Power Systems	□ TN □ TT□ IT − V L-L
Altitude during operation (m)	⊠ 2000 m or less □ m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg)	⊠ 0.075Kg
nite intil water with the	A BY THE THE STEE STEE STEE
POSSIBLE TEST CASE VERDICTS:	MILL MILL MILL MIN
- test case does not apply to the test object:	N/A

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			1

- test object does meet the requirement:	P (Pass)		
- test object does not meet the requirement:			
TESTING:	THE WALLE WALL WALL WAS THE		
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ⊠ Not applicable		
When differences exist; they shall be identified in t	he General product information section.		
Name and address of factory (ies):	Same as manufacturer		
GENERAL PRODUCT INFORMATION:	tex life alies while while while		
Product Description 1. This product is a COREInsight BLE Beacon Tag is 2. As the applicant declares, the operation temperatu			
Model Differences N/A	Whi our was whitek whitek whitek whitek whitek		
Additional application considerations – (Consider N/A	rations used to test a component or sub-assembly)		



ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

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

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

Electrically-caused injury (Clause 5):

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

Example: +5 V dc input, ES1

Source of electrical energy	Corresponding classification (ES)
Internal circuits	ES1

Electrically-caused fire (Clause 6):

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

Example: Battery pack (maximum 85 watts):

Source of power or PIS	Corresponding classification (PS)
All internal circuits/components	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 componentGlycol

Source of hazardous substances	Corresponding chemical		
N/A	N/A The second of the second o		

Mechanically-caused injury (Clause 8)

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

Example: Wall mount unitMS2

Source of kinetic/mechanical energy	Corresponding classification (MS)
MASS OF THE UNIT	MS1
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

Source of thermal energy	Corresponding classification (TS)			
ACCESSIBLE SURFACES	TS1			

Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.)

Example: DVD - Class 1 Laser Product

Type of radiation	Corresponding classification (RS)
N/A	N/A A A A

et let let liet	CLIE .	ENERGY SOURCE	DIAGRAM		4 2	18th 18
Indicate which energy sources a	re included	l in the energy source d	iagram. Ins	sert diagram bel	ow	ne me
A MULTER WALTER WALTER W	⊠ ES	⊠ PS ⊠ MS	⊠ TS	RS		
OVERVIEW OF EMPLOYED	SAFEGU	JARDS				



Clause	Possible Hazard				
5.1	Electrically-caused injur	y	· st st	JEK JEK	
Body Part	Energy Source (ES3: Primary Filter circuit)	Safeguards			
(e.g. Ordinary)		Basic	Supplementary	Reinforced (Enclosure)	
Ordinary	ES1: All circuits inside the equipment enclosure	N/A	N/A	N/A	
6.1 and and and	Electrically-caused fire	- Let 5	It THE STEE	INLIE MILIE	
Material part	Energy Source	me me	Safeguards	, , , , , , , , , , , , , , , , , , ,	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementar y	Reinforced	
All combustible materials within equipment fire enclosure	PS1: All circuits inside the equipment enclosure	N/A	N/A	N/A	
7.1 , 11 , 11 , 11	Injury caused by hazard	rdous substances			
Body Part	Energy Source	20. 20.	Safeguards	Let Je	
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	
8.1	Mechanically-caused inj	ury	where mer me	20, 1	
Body Part	Energy Source (MS3:High Pressure Lamp)	A-	Safeguards	t Till "	
(e.g. Ordinary)		Basic	Supplementary	Reinforced (Enclosure)	
Ordinary	MS1: Mass of the unit	N/A	N/A	N/A	
Ordinary	MS1: Edges and corners	N/A	N/A	N/A	
9.1	Thermal Burn	11 14	77	et et	
Body Part	Energy Source	TEN LIER	Safeguards	21/2 - 21	
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
Ordinary	TS1: Accessible surfaces	N/A	N/A	N/A	
10.1	Radiation	Star Star	MITE WAITE	ner wer	
Body Part	Energy Source Safegu		Safeguards	et let	
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	A N/A	N/A	

Supplementary Information:

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

^{(2) &}quot;N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault

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TER INTE	with mit me of	EN 62368-1	MLTE WALTE
Clause	Requirement – Test	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	* NUTER WHITE WHITE	un i P
4.1.2	Use of components	(See appended table 4.1.2)	Р
4.1.3	Equipment design and construction	THE WALL WALL WALL	Р
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.4	Safeguard robustness	ette met met me m	Р
4.4.4.2	Steady force tests	at at all the	N/A
4.4.4.3	Drop tests	mer mer me and	N/A
4.4.4.4	Impact tests:	- THE THE STATE	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests:	of the the the	N/A
4.4.4.6	Glass Impact tests	Will all All All All A	N/A
4.4.4.7	Thermoplastic material tests:	(See Annex 8)	Р
4.4.4.8	Air comprising a safeguard:	in the the sail and	N/A
4.4.4.9	Accessibility and safeguard effectiveness	of the lift outer with	P
4.5	Explosion	No explosion	Р
4.6	Fixing of conductors	Let anife online	N/A
4.6.1	Fix conductors not to defeat a safeguard		N/A
4.6.2	10 N force test applied to:	LIFE OUT WILL W	N/A
4.7	Equipment for direct insertion into mains socket - outlets	the lifet street writer with	N/A
4.7.2	Mains plug part complies with the relevant standard	t felt telt stelt establish	N/A
4.7.3	Torque (Nm):	They are the top	N/A
4.8	Products containing coin/button cell batteries	No coin/button cell batteries	N/A
4.8.2	Instructional safeguard	my my my	N/A
4.8.3	Battery Compartment Construction	THE LIET NITE WITE W	N/A
NLTEK S	Means to reduce the possibility of children removing the battery	of the text of	et unite
4.8.4	Battery Compartment Mechanical Tests	Mr. Mr. M. M.	N/A
4.8.5	Battery Accessibility	TEX TEX NITES NITES	N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	The the text text	N/A

5	ELECTRICALLY-CAUSED INJURY	
5.2.1	Electrical energy source classifications (see appended table 5.2)	Р

EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
5.2.2	ES1, ES2 and ES3 limits	NITE WHITE WHITE WATE WAS	Р	
5.2.2.2	Steady-state voltage and current	(see appended table 5.2)	Р	
5.2.2.3	Capacitance limits	the mer mer and my	N/A	
5.2.2.4	Single pulse limits	No single pulse introduced	N/A	
5.2.2.5	Limits for repetitive pulses	No repetitive pulses introduced	N/A	
5.2.2.6	Ringing signals	No ringing signal generated	N/A	
5.2.2.7	Audio signals	Wer Mr. My And And	N/A	
5.3	Protection against electrical energy sources	TEK STEK SLIEF SLIEF SINL	N/A	
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	at the ties state which	N/A	
5.3.2.1	Accessibility to electrical energy sources and safeguards	THE THE TEXT SEEK	N/A	
5.3.2.2	Contact requirements	No openings on enclosures as received and after mechanical test.	N/A	
m	a) Test with test probe from Annex V	OUTER WITE WALL WALL WALL WE	N/A	
CENT.	b) Electric strength test potential (V)	a a at at at	N/A	
215 2	c) Air gap (mm)	The write was well was	N/A	
5.3.2.4	Terminals for connecting stripped wire	No such terminal, considered in end system	N/A	
5.4	Insulation materials and requirements	+ A+	A P	
5.4.1.2	Properties of insulating material	MITE WALL WALL WALL W	Р	
5.4.1.3	Humidity conditioning	a state of the state of	N/A	
5.4.1.4	Maximum operating temperature for insulating materials	(see appended table 5.4.1.4)	Р	
5.4.1.5	Pollution degree	IER RITER MILIE MALL WALL		
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	- Lifet still outlet writer	N/A	
5.4.1.5.3	Thermal cycling	111 111 111	N/A	
5.4.1.6	Insulation in transformers with varying dimensions	United white white white wh	N/A	
5.4.1.7	Insulation in circuits generating starting pulses	TEX TEX STEE STEE STEE	N/A	
5.4.1.8	Determination of working voltage	And the till the	N/A	
5.4.1.9	Insulating surfaces	ex life wife write write	N/A	
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	Tet Tet Tet Stet	N/A	
5.4.1.10.2	Vicat softening temperature	The Mr. M. M.	N/A	
5.4.1.10.3	Ball pressure	let tet the tet the si	N/A	

N/A

Clearances

5.4.2

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Clause	Requirement – Test	Result – Remark	Verdict	
5.4.2.2	Determining clearance using peak working	LIET WILL MILES	TE VICE	
At	voltage	L 20 20	N/A	
5.4.2.3	Determining clearance using required withstand voltage	TER WILLER MUTTER MUTT	N/A	
Tile MUL	a) a.c. mains transient voltage	- LIER NITER WITER	MALTE . —	
et set	b) d.c. mains transient voltage	M. 10, 0	* -	
ant	c) external circuit transient voltage	ALTER MITE WALLE W	vr. an —	
.WALTER V	d) transient voltage determined by measurement	Tet stet street state	Ek mit —	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	of the telescope	N/A	
5.4.2.5	Multiplication factors for clearances and test voltages	in in in	N/A	
5.4.3	Creepage distances	WHITE WILL WILL	N/A	
5.4.3.1	General	at at the	N/A	
5.4.3.3	Material Group	With Mur Mur M		
5.4.4	Solid insulation	et let let all	N/A	
5.4.4.2	Minimum distance through insulation	11 11 11	N/A	
5.4.4.3	Insulation compound forming solid insulation	A LEF WALLE	N/A	
5.4.4.4	Solid insulation in semiconductor devices	2 3	N/A	
5.4.4.5	Cemented joints	alter with with w	N/A	
5.4.4.6	Thin sheet material	24 22 1	N/A	
5.4.4.6.1	General requirements	LIFE WILL WALL WAS	N/A	
5.4.4.6.2	Separable thin sheet material	1 2 15 18	N/A	
ine in	Number of layers (pcs)	ill antil white white	N/A	
5.4.4.6.3	Non-separable thin sheet material	at the set	N/A	
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	white main water	N/A	
5.4.4.6.5	Mandrel test	WILLER MULLE WHILE AND THE AND	N/A	
5.4.4.7	Solid insulation in wound components	a state of	N/A	
5.4.4.9	Solid insulation at frequencies >30 kHz	Life While Music Music	N/A	
5.4.5	Antenna terminal insulation	e st set set	N/A	
5.4.5.1	General	Mury Mury Mury	N/A	
5.4.5.2	Voltage surge test	et let let	N/A	
, ".	Insulation resistance (M Ω)	mr. mr. m. 1	<u> </u>	
5.4.6	Insulation of internal wire as part of supplementary safeguard	No such wires	N/A	

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EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement – Test	Result – Remark	Verdict
5.4.7	Tests for semiconductor components and for cemented joints	NITE WALLEY WALLEY	N/A
5.4.8	Humidity conditioning	TER RITER WITE WITE	N/A
set s	Relative humidity (%)	7 × 2*	
in the	Temperature (°C)	THE MILE WHILE	m
Et JEK	Duration (h)	a de de	18th —
5.4.9	Electric strength test	MULTER WALTE WILL WI	N/A
5.4.9.1	Test procedure for a solid insulation type test	at at set of	N/A
5.4.9.2	Test procedure for routine tests	ir, any any any	N/A
5.4.10	Protection against transient voltages between external circuit	ex white whitek whitek	N/A
5.4.10.1	Parts and circuits separated from external circuits	NITER WILLER WHITER O	N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General	Will MULL MULL MU	N/A
5.4.10.2.2	Impulse test	is it it is	N/A
5.4.10.2.3	Steady-state test	in much much much	N/A
5.4.11	Insulation between external circuits and earthed circuitry	the standard	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	Life out with an	N/A
5.4.11.2	Requirements	an In	N/A
245 1	Rated operating voltage U _{op} (V)	LITER WALTER WALTER WALTER	unt —
AEX.	Nominal voltage U _{peak} (V)	1 1 1 10	
ne on	Max increase due to variation U _{sp}	IE WILL MULT MULT	
ITEK RITE	Max increase due to ageing ΔU _{sa}	at at at	TEN -
	U _{op} = U _{peak} + ΔU _{sp} +ΔU _{sa}	were mer me a	, –
5.5	Components as safeguards	Let Let Let N	LIEN WILL WALL
5.5.1	General	me my my m	N/A
5.5.2	Capacitors and RC units	THE THE STILL STILL	N/A
5.5.2.1	General requirement	10 10 10	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	White white white	N/A
5.5.3	Transformers	TEX STEX STEX	N/A
5.5.4	Optocouplers	my my my	N/A
5.5.5	Relays	THE THE STIFF SAL	N/A
5.5.6	Resistors	1. 21, 21, 2	N/A



EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
5.5.7	SPD's	The state state south	N/A	
5.5.7.1	Use of an SPD connected to reliable earthing	L. W. W. A.	N/A	
5.5.7.1	Use of an SPD between mains and protective	ist with mitter with w	IN/A	
5.5.7.Z	earth	M The second	N/A	
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable	white must must must	N/A	
5.6	Protective conductor	THE MITTER WALTER WALLE	N/A	
5.6.2	Requirement for protective conductors	m w t	N/A	
5.6.2.1	General requirements	LIE MITE MALTE MALL	N/A	
5.6.2.2	Colour of insulation	a state of	N/A	
5.6.3	Requirement for protective earthing conductors	and the mail was an	N/A	
is mis	Protective earthing conductor size (mm²)	STEE STEE SHIP MILL	<i>y</i> –	
5.6.4	Requirement for protective bonding conductors	The state of	N/A	
5.6.4.1	Protective bonding conductors	alter with whit was	N/A	
All the	Protective bonding conductor size (mm²)	. * * *	, i –	
10, 1	Protective current rating (A)	in with the me a	n _	
5.6.4.3	Current limiting and overcurrent protective devices	MATER WA	N/A	
5.6.5	Terminals for protective conductors	+ 1	N/A	
5.6.5.1	Requirement	with only will and	N/A	
MALTER	Conductor size (mm²), nominal thread diameter (mm)	STER THEFE WITTER SUITER	N/A	
5.6.5.2	Corrosion		N/A	
5.6.6	Resistance of the protective system	ited mitter white white w	N/A	
5.6.6.1	Requirements	a at at a	⊘ N/A	
5.6.6.2	Test Method Resistance (Ω)	autic muri mur mur	N/A	
5.6.7	Reliable earthing	at all set set	N/A	
5.7	Prospective touch voltage, touch current and pr	otective conductor current	N/A	
5.7.2	Measuring devices and networks	the text the tree	N/A	
5.7.2.1	Measurement of touch current	in the the	N/A	
5.7.2.2	Measurement of prospective touch voltage	of the tier steel w	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	of the tot the	N/A	
t stek	System of interconnected equipment (separate connections/single connection)	Single equipment	1 th - 1	
n,	Multiple connections to mains (one connection at a time/simultaneous connections)	Single connection	74 - 101 141 - 141	

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Clause	Requirement – Test	Result – Remark	Verdict
7 (10)	Will man and and		The The St
5.7.4	Earthed conductive accessible parts	Will Mar Mar My	N/A
5.7.5	Protective conductor current	at at at all	N/A
21, A	Supply Voltage (V)	in mir mir mur	
SLIFE ON	Measured current (mA)	- TEK TEK JEK	INLIER -
	Instructional Safeguard	me me m	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	UNITER WHITER WHITER W	N/A
5.7.6.1	Touch current from coaxial cables	et set set s	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	and the second	N/A
5.7.7	Summation of touch currents from external circuits	murr murr murr	N/A
ال المالي عا	a) Equipment with earthed external circuits Measured current (mA)	WALTER WALTE WALTE	N/A
MULL	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)	NITER WHITER WHITER WH	N/A

6	ELECTRICALLY- CAUSED FIRE	in the the same in	Р
6.2	Classification of power sources (PS) and potenti	al ignition sources (PIS)	nti P
6.2.2	Power source circuit classifications		PΡ
6.2.2.1	General	THE SLIPE DELLE MILLER AND	P/S
6.2.2.2	Power measurement for worst-case load fault	: (See appended table 6.2.2)	← P,∢
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	N/A
6.2.2.4	PS1	Et ITER SITER MITER MICE	n P
6.2.2.5	PS2	The same of	N/A
6.2.2.6	PS3	LIE SLIE WILL SINCE	N/A
6.2.3	Classification of potential ignition sources	The state of	N/A
6.2.3.1	Arcing PIS	TITES INTE MITTE MALL MA	N/A
6.2.3.2	Resistive PIS		N/A
6.3	Safeguards against fire under normal operating	and abnormal operating conditions	N/A
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	A MILIER WALTER WALTER	N/A
6.3.1 (b)	Combustible materials outside fire enclosure	The state attack materials	N/A
6.4	Safeguards against fire under single fault conditions		N/A
6.4.1	Safeguard Method	Method of control fire spread used	N/A
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	the file title still satisfie	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	NITE WALLE WAS	N/A
6.4.3.1	General	TER OLIER WILL WHILE	N/A
6.4.3.2	Supplementary Safeguards	a at the	N/A
ck ch	Special conditions if conductors on printed boards are opened or peeled	MULTE WALL MILL V	N/A
6.4.3.3	Single Fault Conditions	alter nuter anticom	N/A
MALTER	Special conditions for temperature limited by fuse	THE STEE SLITER SOLI	N/A
6.4.4	Control of fire spread in PS1 circuits	in the the m	P
6.4.5	Control of fire spread in PS2 circuits	EX LIEK NITER MITE	N/A
6.4.5.2	Supplementary safeguards	7/11 / 7/11	N/A
6.4.6	Control of fire spread in PS3 circuit	SLIER WITE WITE W	N/A
6.4.7	Separation of combustible materials from a PIS	THE THE NAME OF	N/A
6.4.7.1	General	in my	N/A
6.4.7.2	Separation by distance	TEX STER STEE SALTER WALTER	N/A
6.4.7.3	Separation by a fire barrier	1 1 1 1 t	N/A
6.4.8	Fire enclosures and fire barriers	White.	N/A
6.4.8.1	Fire enclosure and fire barrier material properties		N/A
6.4.8.2.1	Requirements for a fire barrier	an an an	N/A
6.4.8.2.2	Requirements for a fire enclosure	TEX SITE SILIES SINIS	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	et tet tet stet stret	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	m m m	N/A
6.4.8.3.2	Fire barrier dimensions	TER STER WITER	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions(mm)	THE THE THE	N/A
7,	Needle Flame test	ner me me in	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	LIER WHITER WHITE	N/A
ULIER WA	Flammability tests for the bottom of a fire enclosure	A DETEK WHITEK	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	No doors or covers.	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	all the state of	N/A
6.5	Internal and external wiring	mer mer mer mis	N/A
6.5.1	Requirements	of the total	N/A



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	EN 6236	38-1	
Clause	Requirement – Test	Result – Remark	Verdict
6.5.2	Cross-sectional area (mm²)	LITE WILL WILL WATE	W -
6.5.3	Requirements for interconnection to building wiring	TEL NITER WHITER	N/A
6.6	Safeguards against fire due to connection to additional equipment	te ster street water on	N/A
EK MITE	External port limited to PS2 or complies with Clause Q.1	+ 12+ 12+ 12+ 12	N/A

7 mil	INJURY CAUSED BY HAZARDOUS SUBSTAN	CES	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)	SLIEF WILL MILL MULL M	N/A
٠ . ٢	Personal safeguards and instructions	and the state of	
7.5	Use of instructional safeguards and instructions	THE WILL MULT WILL WAS	N/A
Clest.	Instructional safeguard (ISO 7010)	e state of	_
7.6	Batteries:	with the the	A P

8	MECHANICALLY-CAUSED INJURY	a sur sur	Р
8.1	General	Enclosure is smooth and no mechanical energy sources	LIE PAL
8.2	Mechanical energy source classifications	MS1	P
8.3	Safeguards against mechanical energy sources	The mer mer me in	Р
8.4	Safeguards against parts with sharp edges and corners	Edges and corners are classed as MS1	whiP.
8.4.1	Safeguards	at at let let	N/A
8.5	Safeguards against moving parts	No moving parts	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	NITER WILLER WILLIAM WILLIAM	N/A
8.5.2	Instructional Safeguard	a a at at s	_
8.5.4	Special categories of equipment comprising moving parts	The must wine on the	N/A
8.5.4.1	Large data storage equipment	A WILL OUT MILL AND AND	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	THE STIFF STEE SINTERS	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	M. M. A.	N/A
8.5.4.2.2	Instructional safeguards against moving parts	NITER WITE WHITE WHITE WA	N/A
all the	Instructional Safeguard	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_

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Clause	Requirement – Test	Result – Remark	Verdict
	with with one was and	and the second	Carter and
8.5.4.2.3	Disconnection from the supply	office with the tile	N/A
8.5.4.2.4	Probe type and force (N)	of let tet tet	N/A
8.5.5	High Pressure Lamps	No high pressure lamps	N/A
8.5.5.1	Energy Source Classification	e- set stet stet ni	N/A
8.5.5.2	High Pressure Lamp Explosion Test	- m. m. m.	N/A
8.6	Stability	THE STIFF WITH WITH	N/A
8.6.1	Product classification	the the tenth	N/A
Whi.	Instructional Safeguard	LIER WILLER WHILE MULTER	mr —
8.6.2	Static stability		N/A
8.6.2.2	Static stability test	THE WALL MALL MALL W	N/A
UER SUF	Applied Force	and the set of	et -
8.6.2.3	Downward Force Test	While Man Man Man	N/A
8.6.3	Relocation stability test	at the other	N/A
7	Unit configuration during 10° tilt	"her, me me m	
8.6.4	Glass slide test	let the tiet wife.	N/A
8.6.5	Horizontal force test (Applied Force)	11 11 11	N/A
VEL PAR	Position of feet or movable parts	at at anite of	_
8.7	Equipment mounted to wall or ceiling		N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	white white will whi	N/A
8.7.2	Direction and applied force	tek outer outer wait	N/A
8.8	Handles strength	No handles.	N/A
8.8.1	Classification	steet mire anire and a	N/A
8.8.2	Applied Force	· L A At .	N/A
8.9	Wheels or casters attachment requirements	No wheels or casters.	N/A
8.9.1	Classification	at the set of	N/A
8.9.2	Applied force	write water with our	1,1
8.10	Carts, stands and similar carriers	No carts or stands or other carriers.	N/A
8.10.1	General	a the set set	N/A
8.10.2	Marking and instructions	the write military and	N/A
TEN PITE	Instructional Safeguard	the set set is	e* _
8.10.3	Cart, stand or carrier loading test and compliance	mer my my my	N/A
415	Applied force	nite white white white	m
8.10.4	Cart, stand or carrier impact test	1 4 4 4	N/A

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	EN 62368	8-1	
Clause	Requirement – Test	Result – Remark	Verdict
8.10.5	Mechanical stability	RUTER MILITER WAS	N/A
LITER .	Applied horizontal force (N)	A set tet stell	- LTE -
8.10.6	Thermoplastic temperature stability (°C)	in me me	N/A
8.11	Mounting means for rack mounted equipment	Not rack mounted.	N/A
8.11.1	General	Mrs. Mr. Mr.	N/A
8.11.2	Product Classification	TER STEE WITER OF	N/A
8.11.3	Mechanical strength test, variable N	m m n	N/A
8.11.4	Mechanical strength test 250N, including end stops	NIFE WALTER WALTER WALT	N/A
8.12	Telescoping or rod antennas	. No rod antennas.	N/A
as Albana ay	Button/Ball diameter (mm)	10, 20, 20,	_

9	THERMAL BURN INJURY		J P
9.2	Thermal energy source classifications	Enclosure is classed as TS1.	Р
9.3	Safeguard against thermal energy sources	Enclosure is used as safeguard.	P
9.4	Requirements for safeguards	WITE WILL MILL MALL WALL	N/A
9.4.1	Equipment safeguard	At Alt It	N/A
9.4.2	Instructional safeguard	Instructional safeguard is not required	N/A

10	RADIATION	A ST ST	P. P.
10.2	Radiation energy source classification	The Mile Mile Mile Mile	P
10.2.1	General classification	LED indicator: Classed as RS1 (Exempt Group)	WAT DE AN
10.3	Protection against laser radiation	No laser radiation	N/A
in the	Laser radiation that exists equipment:	with white white white	n -n
Et SEX	Normal, abnormal, single-fault	a state of the	N/A
-10	Instructional safeguard	WILL MULL MULL MULL MINE MI	_
NITER O	Tool	at all tell tell at	_
10.4	Protection against visible, infrared, and UV radiation	et me me me all	N/A
10.4.1	General	er with with and and	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons	at all all other	N/A
10.4.1.b)	RS3 accessible to a skilled person	with mer mer me a	N/A
WALTER.	Personal safeguard (PPE) instructional safeguard	STEET WITEE WITEE WILLIES WI	TER WITTE
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1	EX STEX STEX SELECT SHIPE	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
10.4.1.d)	Normal, abnormal, single-fault conditions	alies write while whi	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque	fet tret outet mile	N/A
10.4.1.f)	UV attenuation	No UV.	N/A
10.4.1.g)	Materials resistant to degradation UV	. No UV.	N/A
10.4.1.h)	Enclosure containment of optical radiation	. No required.	N/A
10.4.1.i)	Exempt Group under normal operating conditions	MULLE MULLE MULL M	N/A
10.4.2	Instructional safeguard	. Not required.	N/A
10.5	Protection against x-radiation	No X-radiation.	N/A
10.5.1	X- radiation energy source that exists equipment	WALL WILL WALL	N/A
che	Normal, abnormal, single fault conditions	NITER MITE MITE	N/A
t de	Equipment safeguards	70 7 24	N/A
m.	Instructional safeguard for skilled person	ALTER ANTIE MALL WA	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	TEX SLIEN SLIEN WITH	H WALTER WALTER
18 X	Abnormal and single-fault condition		N/A
in mi	Maximum radiation (pA/kg)	Nutition of the second	N/A
10.6	Protection against acoustic energy sources		N/A
10.6.1	General	WITE WALL WALL W	N/A
10.6.2	Classification	L A A	N/A
20, 1	Acoustic output, dB(A)	Stiff Mulit Muli Mus	N/A
NUTER IN	Output voltage, unweightedr.m.s	at all all all	N/A
10.6.4	Protection of persons	in min mur mur	N/A
TER SOLIV	Instructional safeguards	- Let Let Jet	N/A
y Jek	Equipment safeguard prevent ordinary person to RS2	mun mun m	
	Means to actively inform user of increase sound pressure	Marie Mari Marie Ma	* ~ ~ _
The W	Equipment safeguard prevent ordinary person to RS2	LIE MILIE MILIE WILL	Alur —
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	outres white anties	N/A
10.6.5.1	Corded passive listening devices with analog input	antiek weight weight	N/A
MULTER	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output	SLIER SLIER MUTER SAM	SER WILL —
10.6.5.2	Corded listening devices with digital input		N/A

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	EN 62368	3-1 At 15th 15th	
Clause	Requirement – Test	Result – Remark	Verdict
An extension	Maximum dB(A)	NITE WALLEY WALLEY WILLEY	
10.6.5.3	Cordless listening device	at at let set is	N/A
21, 2,	Maximum dB(A)	i mi mi m m	_

B- Jie	NORMAL OPERATING CONDITION TESTS, A CONDITION TESTS AND SINGLE FAULT CO		P
B.2	Normal Operating Conditions	WILL MULL MULL MULL A	Р
B.2.1	General requirements	. (See summary of testing& appended test tables)	Р
NUTEK UN	Audio Amplifiers and equipment with audio amplifiers	et alter miter multiple marin	N/A
B.2.3	Supply voltage and tolerances	The state of	N/A
B.2.5	Input test	(See appended table B.2.5)	y Ps
B.3	Simulated abnormal operating conditions	a state of	N/A
B.3.1	General requirements	CITE WILL WILL WILL WILL WILL	N/A
B.3.2	Covering of ventilation openings	a state of the s	N/A
B.3.3	D.C. mains polarity test	The more much much my	N/A
B.3.4	Setting of voltage selector	et of the life	N/A
B.3.5	Maximum load at output terminals	2 24 24 24	N/A
B.3.6	Reverse battery polarity	THE THE STATE OF THE	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	Whit will be the test	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	interpreted the sure of the su	N/A
B.4	Simulated single fault conditions	LIER WILLE WALL WALL WALL WALL	₹ _N P
B.4.2	Temperature controlling device open or short-circuited	No such controlling device	N/A
B.4.3	Motor tests	40. 10.	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	Writer white white white	N/A
B.4.4	Short circuit of functional insulation	(See appended table B.4)	J JUP
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	MULT MULT MULT MULT	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	NETER WALTE WALTE WALL W	N/A



EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	Р	
B.4.7	Continuous operation of components	Not intermittent or short-time operation equipment	N/A	
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	White White white white	Р	
B.4.9	Battery charging under single fault conditions	outet soutet united matter	N/A	
C	UV RADIATION	THE THE STEE STEET OF	N/A	
C.1	Protection of materials in equipment from UV radiation	No UV radiation within the EUT.	N/A	
C.1.2	Requirements	MULL ME ME ME	N/A	
C.1.3	Test method	- let tet tet stet	N/A	
C.2	UV light conditioning test	me me m	N/A	
C.2.1	Test apparatus	THE THE LITER NATIONAL	N/A	
C.2.2	Mounting of test samples	re me me me	N/A	
C.2.3	Carbon-arc light-exposure apparatus	THE LIER NITER WITE WAL	N/A	
C.2.4	Xenon-arc light exposure apparatus		N/A	
ver ans		White white	Sur.	
D-	TEST GENERATORS	the set	N/A	
D.1	Impulse test generators	WITE MUTTE WALL MALL !	N/A	
D.2	Antenna interface test generator	a state of the	N/A	
D.3	Electronic pulse generator	THE WILL MUT, MUT, MY	N/A	
of the The	N. M. M. M. M.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WALTER AND	
E	TEST CONDITIONS FOR EQUIPMENT CONT.	AINING AUDIO AMPLIFIERS	N/A	
E.1	Audio amplifier normal operating conditions	- Life of the of the south	N/A	
	Audio signal voltage (V)		·	
MIL	Rated load impedance (Ω)	52 "45 "16 " 511 " 50	V. 22	
E.2	Audio amplifier abnormal operating conditions	(See appended table B.3)	N/A	
FIRE IN	EQUIPMENT MARKINGS, INSTRUCTIONS, A SAFEGUARDS	ND INSTRUCTIONAL	P.	
F.1	General requirements	They are are	Р	
TE WILL	Instructions – Language	Instructions in English are checked	71/71/21 - 11	
F.2	Letter symbols and graphical symbols	at at the text that	P	
F.2.1	Letter symbols according to IEC60027-1	her with the me of	Р	

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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – rest	Result – Remark	verdict
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	Wite Mile Mile Mile Mile	Р
F.3	Equipment markings	TEX OFFER OUTE MULT MULT	√ P
F.3.1	Equipment marking locations	Located on the enclosure surface	ζP
F.3.2	Equipment identification markings	WILL MILL MILL MILL	Р
F.3.2.1	Manufacturer identification	See copy of marking plate	JEK -
F.3.2.2	Model identification	See page 1 for details	72)
F.3.3	Equipment rating markings	et let let liet ni	Р
F.3.3.1	Equipment with direct connection to mains	Tr. Mr. Mr. M. M.	N/A
F.3.3.2	Equipment without direct connection to mains	See the copy of marking plate for detail.	whi.b
F.3.3.3	Nature of supply voltage	See the copy of marking plate for detail.	ALTE P
F.3.3.4	Rated voltage	M M M	d -
F.3.3.4	Rated frequency	WILL MILL MULL MULL MAN	10
F.3.3.6	Rated current or rated power	a st st st st	- 4
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	- 1 M. M.	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlet	N/A
F.3.5.2	Switch position identification marking	No switch	N/A
F.3.5.3	Replacement fuse identification and rating markings	rece with the till the	N/A
F.3.5.4	Replacement battery identification marking	the unit whit whit will	N/A
F.3.5.5	Terminal marking location	at at at at	N/A
F.3.6	Equipment markings related to equipment classification	white min min and	N/A
F.3.6.1	Class I Equipment	THE WIFE WIFE WHILE WALL ON	N/A
F.3.6.1.1	Protective earthing conductor terminal	1 x st st st	N/A
F.3.6.1.2	Neutral conductor terminal	LIFE WHILE MULL MALL MALL MALL	N/A
F.3.6.1.3	Protective bonding conductor terminals	e st set set set	N/A
F.3.6.2	Class II equipment (IEC60417-5172)	West Aug Aug Aug	N/A
F.3.6.2.1	Class II equipment with or without functional earth	THE WHITE WHITE WHITE	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	TEX THEY THEY MITES ANTIES AND	N/A
F.3.7	Equipment IP rating marking	IPX0, no marking is needed	

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Clause	Requirement – Test	Result – Remark	Verdict
5 July 1	NITE WILL MAY ME TO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the state of
F.3.8	External power supply output marking	WILL WILL MUT, MUT, MUT	N/A
F.3.9	Durability, legibility and permanence of marking	TEK NITES INTES INTES	WALLE WALPER
F.3.10	Test for permanence of markings		P
F.4	Instructions	MALL WILL MALL WILL W	P
ek walte	a) Equipment for use in locations where children not likely to be present - marking	THE MITES MITES AND	N/A
LEX.	b) Instructions given for installation or initial use	n	⊢ P
The .	c) Equipment intended to be fastened in place	LITER INLIER WALLE WALLE	N/A
Wriek M	d) Equipment intended for use only in restricted access area	et lifet miret miret	N/A
TEK WAL	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	MULTER WHITER WHITER W	N/A
t Liter	f) Protective earthing employed as safeguard	at at all of	N/A
7.E.k	g) Protective earthing conductor current exceeding ES 2 limits	With Must Aug Au	N/A
21/2 1	h) Symbols used on equipment	TER WALL WALL WALL	N/A
NITEK WA	i) Permanently connected equipment not provided with all-pole mains switch	A AND MILITER IN	N/A
EK WALTE	j) Replaceable components or modules providing safeguard function		N/A
F.5	Instructional safeguards	No required.	Р
White	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	LIFEK WALTER WALTER WALTE	and P
110- 21	the state of the state of	HER MALLE WALL WALL	an an
G	COMPONENTS	e at at at	AP AP
G.1	Switches	with mir mir m	N/A
G.1.1	General requirements	No switches used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	are any are an	N/A
G.2	Relays	Let Let Jet Jet	N/A
G.2.1	General requirements	Approved relay used	N/A
G.2.2	Overload test	IF THE THE STEE	N/A
G.2.3	Relay controlling connectors supply power	211. 211. 211.	N/A
G.2.4	Mains relay, modified as stated in G.2	LIET STEE WITE OF	N/A
G.3	Protection Devices	24, 24, 2,	N/A
G.3.1	Thermal cut-offs	THE THE STATE WITH	N/A

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Clause	EN 62368		Mondiet
Clause	Requirement – Test	Result – Remark	Verdict
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	Approved Thermal cut-off used	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	who will the test the	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	MULT AND AND AND	N/A
G.3.2	Thermal links	WITE WILL MILL WILL V	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal link used	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
in an	Aging hours (H)	er intie white whit with	m_
TEK TE	Single Fault Condition	at at at at	UEK.
. 4,	Test Voltage (V) and Insulation Resistance (Ω).	MUTTE MILL MILL MILL	n, _n,
G.3.3	PTC Thermistors	No PTC used	N/A
G.3.4	Overcurrent protection devices	her me me me	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	Tet ite	N/A
G.3.5.2	Single faults conditions	(See appended Table B.4)	N/A
G.4	Connectors	THE STATES	N/A
G.4.1	Spacings	My Muss My My	N/A
G.4.2	Mains connector configuration	THE THE LITTER STITES OF	N/A
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely	at the text attached	N/A
G.5	Wound Components	in min me me m	N/A
G.5.1	Wire insulation in wound components	- THE THE LITTER SLITER	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	THE WAY THE TEXT	N/A
G.5.1.2 b)	Construction subject to routine testing	anti- anti- anti- anti- a	N/A
G.5.2	Endurance test on wound components	it let let let il	N/A
G.5.2.1	General test requirements	in mir, mr m, m,	N/A
G.5.2.2	Heat run test	at the the ties with	N/A
4 1	Time (s)	The The The The	
The WALL	Temperature (°C)	LIET ALTER MITER MAIRE	" Arre _1
G.5.2.3	Wound Components supplied by mains	Mr. M. C.	N/A
G.5.3	Transformers	TITEL WITE WHITE WHITE W	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	et let let liet li	N/A



TER STE	EN 62368	1-1 at at at	CIER SCIENCE
Clause	Requirement – Test	Result – Remark	Verdict
antite.	Position	LIET NEITH WEIGH	CERTIFICATION CO
10	Method of protection	1, 7, 2,	L 10 10
G.5.3.2	Insulation	ich nicht miter white	N/A
G.5.5.2		11 1 1	IN/A
0.5.2.2	Protection from displacement of windings	- Will Mile will	
G.5.3.3	Overload test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
G.5.3.3.1	Test conditions	WILL MILL MILL M	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	A A A A A	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	stile metr metr metr	N/A
G.5.4	Motors	et jet jet niet	N/A
G.5.4.1	General requirements	21/2 21/2 20	N/A
rie Murr	Position	LIER WITER WITER	المريدي المريد المريد
G.5.4.2	Test conditions	211. 22. 2	N/A
G.5.4.3	Running overload test	CLIEB WILLER WHILE WA	N/A
G.5.4.4	Locked-rotor overload test		N/A
21/2 21	Test duration (days)	THE WALL WHILE WHILE	mr mr
G.5.4.5	Running overload test for d.c. motors in secondary circuits	Milet	N/A
G.5.4.5.2	Tested in the unit		N/A
. The	Electric strength test (V)	CLIE WILL WILL W	n n - n
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	TEX STEX STEX STEX	N/A
et.	Electric strength test (V)	20, 20, 20, 3	
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	ter write write write	N/A
G.5.4.6.2	Tested in the unit	THE LIER SLIER	N/A
at at	Maximum Temperature	14, 14, 14,	N/A
MARIN	Electric strength test (V)	LIER OLIER WITE ON	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	ret ret of the	N/A
	Electric strength test (V)	and any	N/A
G.5.4.7	Motors with capacitors	y life alifet miles	N/A
G.5.4.8	Three-phase motors	20, 20, 20,	N/A
G.5.4.9	Series motors	LIER REFERENCE	N/A
+ Let	Operating voltage	10, 10, 10, 10	A A -
G.6	Wire Insulation	THE STATE WITE WITE	N/A

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EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
G.6.1	Conoral	Approved TIM used as assendent	NI/A
G.0.1	General	Approved TIW used as secondary winding of mains transformer	N/A
G.6.2	Solvent-based enamel wiring insulation	TER WITER NUTTE WHILE MAIN	N/A
G.7	Mains supply cords	and the state of the	N/A
G.7.1	General requirements	No such cords provided	N/A
LEK JEK	Type	at the state state	JEK -
1,1	Rated current (A)	write mil our me of	7
- NITER S	Cross-sectional area (mm²), (AWG)	at let the lift wi	
G.7.2	Compliance and test method	Tr. Mrs. Mrs. Mrs. Mrs. Mrs.	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	EX WATER WATER WATER WATER	N/A
G.7.3.2	Cord strain relief	. It let let let	N/A
G.7.3.2.1	Requirements	mer mer mer me	N/A
IN INCIDENT	Strain relief test force (N)	let let liet lifet o	100
G.7.3.2.2	Strain relief mechanism failure	he he he he	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm)	tet itet litet nite shir	with
G.7.3.2.4	Strain relief comprised of polymeric material	The state of the s	N/A
G.7.4	Cord Entry	ALL SANITE MALL	N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements	CLIEF WITE WILL WILL W	N/A
G.7.5.2	Mass (g)	at at all a	e ^t J
10, 1	Diameter (m)		10
ALTER IN	Temperature (°C)	at the left the	
G.7.6	Supply wiring space	anti mi me me	N/A
G.7.6.2	Stranded wire	. Let tet tet ster	N/A
G.7.6.2.1	Test with 8 mm strand	me me me	N/A
G.8	Varistors	THE THE STEE WITH M	N/A
G.8.1	General requirements	ne me me me	N/A
G.8.2	Safeguard against shock	TER STER WITE WITE MILIE MINI	N/A
G.8.3	Safeguard against fire	The second	N/A
G.8.3.2	Varistor overload test	A CHER WILL MALL MALL	N/A
G.8.3.3	Temporary overvoltage	The state of the	N/A
G.9	Integrated Circuit (IC) Current Limiters	MITE WALL WALL WALL OF	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	a state of the	N/A
G.9.1 b)	Limiters do not have manual operator or reset	WILL WILL MILL MILL MILL	N/A
G.9.1 c)	Supply source does not exceed 250 VA	i at the title of	1

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ITER OUTE	EN 62368	3-1 pt 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	alife J
Clause	Requirement – Test	Result – Remark	Verdict
	THE WALL WALL AND THE	the second second	See See
G.9.1 d)	IC limiter output current (max. 5A)		
G.9.1 e)	Manufacturers' defined drift	at at all all said	The state of
G.9.2	Test Program 1	y Mr. Mr. M. M.	N/A
G.9.3	Test Program 2	t get get giet miles	N/A
G.9.4	Test Program 3	me me m m	N/A
G.10	Resistors	TEX STEX STEE WITE SOLVE	N/A
G.10.1	General requirements	No such resistors used	N/A
G.10.2	Resistor test	THE STEE OUTE SOUTH SUNT	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	Et JUNITER WHITER WHITER	N/A
G.10.3.1	General requirements	at let let liet	N/A
G.10.3.2	Voltage surge test	while the the the	N/A
G.10.3.3	Impulse test	the after after a	N/A
G.11	Capacitor and RC units	MUT AUG AUG AUG AUG	N/A
G.11.1	General requirements	LER TER THE NUTER WITH	N/A
G.11.2	Conditioning of capacitors and RC units	The	N/A
G.11.3	Rules for selecting capacitors	A LIFE OF STATE MITTER	N/A
G.12	Optocouplers		N/A
t TEX	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	MILE WHITE WHITE WHITE W	N/A
m,	Type test voltage Vini	The will are my me	12,
LITET IS	Routine test voltage, Vini,b	at the text of	
G.13	Printed boards	The sure of the	Р
G.13.1	General requirements	Approved Printed board used	Р
G.13.2	Uncoated printed boards	Alley Alley Alley Alley	N/A
G.13.3	Coated printed boards	TEX TEX STEE STIET OF	N/A
G.13.4	Insulation between conductors on the same inner surface	and such that they off	N/A
Cler 1	Compliance with cemented joint requirements (Specify construction)	Complied with clause 5.4.4.5 item c)	J. J. J.
G.13.5	Insulation between conductors on different surfaces	with mer and an	N/A
Ance	Distance through insulation	RETER MILITE WALTER WALL V	N/A
y whitek	Number of insulation layers (pcs)	TITEL WILLER WITTER WATER WA	EF AUT
	it let silet silet and while	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
G.13.6	Tests on coated printed boards	tel tell till nitt mil	N/A

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THE MILE WALL WALL WALL WALL	EN 62368-1

Clause	Paguirament Test		Verdict
Clause	Requirement – Test	Result – Remark	Verdict
G.13.6.1	Sample preparation and preliminary inspection	ALTER WALL WALL WALL WALL	N/A
G.13.6.2a)	Thermal conditioning	at the till	N/A
G.13.6.2b)	Electric strength test	in will mer me	N/A
G.13.6.2c)	Abrasion resistance test	- At At Jet	N/A
G.14	Coating on components terminals	mer mer mer	N/A
G.14.1	Requirements	(See G.13)	N/A
G.15	Liquid filled components	me me in m	N/A
G.15.1	General requirements	TEK TIEK STEEK MIT	N/A
G.15.2	Requirements	2 741 74	N/A
G.15.3	Compliance and test methods	EX NITER NITE WITE	N/A
G.15.3.1	Hydrostatic pressure test	70, 70, 7	N/A
G.15.3.2	Creep resistance test	NITER WITE WILL IN	N/A
G.15.3.3	Tubing and fittings compatibility test		N/A
G.15.3.4	Vibration test	WITE WILL AUT ONE	N/A
G.15.3.5	Thermal cycling test	a de de de	N/A
G.15.3.6	Force test	ite with mit must	N/A
G.15.4	Compliance	A ST AND STATE	N/A
G.16	IC including capacitor discharge function (IC	CX)	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	MILLE MALIE MALLER ON	N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage	LIER MITER MATER WALL	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	est like likes miles	N/A
C2)	Test voltage	211, 21, 2,	A 10
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	White white white	N/A
D2)	Capacitance	Write Mure and and	70 70
D3)	Resistance	at at all a	k nith n it e
20 10	A SH THE THE MITTER WITH AN	The man man	7, 2,
Haren mala	CRITERIA FOR TELEPHONE RINGING SIGNA	ALS	N/A
H.1	General	me me m	N/A
H.2	Method A	THE LITTER STEEL	N/A
H.3	Method B	The The All of	N/A
	27	A 10 10 10	N/A
H.3.1	Ringing signal	11 10 10 10 10 10 10 10 10 10 10 10 10 1	IN/A

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ie and	EN 62368	3-1 /h // //	Will all
Clause	Requirement – Test	Result – Remark	Verdict
H.3.1.2	Voltage (V)	SITE MIN SINIES SINIES	- 100 C
H.3.1.3	Cadence; time (s) and voltage (V)		0 <u>20</u>
H.3.1.4	Single fault current (mA):	(V (V) V (V)	
H.3.2	Tripping device and monitoring voltage	1 2 2	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	white mist make with	N/A
H.3.2.2	Tripping device	antiti wati will will y	N/A
H.3.2.3	Monitoring voltage (V)	let let let sliet di	11 th 11-11
~ _	at let text text action while a	ir m. m. m.	
Jetter on	INSULATED WINDING WIRES FOR USE WIT	HOUT INTERLEAVED	N/A
LIER WILL H WILER	General requirements	Triple insulated wires complied with annex U of IEC 60950-1 (it was identical to annex J of this standard)	N/A
V	CAFETY INTERLOCKS	Wer Mer My My M	N/A
K K.1	SAFETY INTERLOCKS	N E. A	N/A
K. I	General requirements	No safety interlocks inside the EUT	N/A
K.2	Components of safety interlock safeguard mechanism	To the the	N/A
K.3	Inadvertent change of operating mode	with white wall was	N/A
K.4	Interlock safeguard override	at the fifth of	N/A
K.5	Fail-safe Fail-safe	Mile Mile Mary Mary M	N/A
CLIER I	Compliance	at at all all all	N/A
K.6	Mechanically operated safety interlocks	with the the m	N/A
K.6.1	Endurance requirement	- TEN TEN STEEN NITER	N/A
K.6.2	Compliance and Test method	The Mr. M. M.	N/A
K.7	Interlock circuit isolation	THE THE STEEL STEEL	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)	TEK MILEK MULTER MULTER MU	N/A
K.7.2	Overload test, Current (A)	and the state of	N/A
K.7.3	Endurance test	antic mit mit mit	N/A
K.7.4	Electric strength test	at at at other	N/A
20,	A LE LEE STITLE SOLIE SOLIE	MULL MET MET MET ME	2, 2,
Laurer	DISCONNECT DEVICES	let the the tree of	N/A
L.1	General requirements	Wer Aug Me Me Me	N/A
L.2	Permanently connected equipment	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A

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Clause	Requirement – Test Result – Remark	Verdict
S. Clerk	at at the text	767 20
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
	LEK TEX STEX NUTER WILL MAN WIT THE THE TEXT OF THE TE	+ .
Martin a	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS	Р
M.1	General requirements	Р
M.2	Safety of batteries and their cells	W P
M.2.1	Requirements	∠∂-P
M.2.2	Compliance and test method (identify method)	Р
M.3	Protection circuits	P
M.3.1	Requirements	Р
M.3.2	Tests	Р
14. 14.	- Overcharging of a rechargeable battery	N/A
nliek wali	- Unintentional charging of a non-rechargeable battery	MILT P
CENT CENT	- Reverse charging of a rechargeable battery	N/A
20,	- Excessive discharging rate for any battery	N/A
M.3.3	Compliance	Р
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
M.4.2.2a)	Charging voltage, current and temperature	JE - 1
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
2,	Drop	N/A
MILLER	Charge	N/A
7.	Discharge	N/A
M.4.4.4	Charge-discharge cycle test	N/A

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01	EN 62368		11/ 11/
Clause	Requirement – Test	Result – Remark	Verdict
M.4.4.5	Result of charge-discharge cycle test	NITE MALLE MALLE MALLE	N/A
M.5	Risk of burn due to short circuit during carrying	TEX NITEX WITEX WATER WATE	N/A
M.5.1	Requirement	at the set	N/A
M.5.2	Compliance and Test Method (Test of P.2.3)	mite with mit mi	N/A
M.6	Prevention of short circuits and protection from other effects of electric current	THE MITTER MITTER MATTER AN	N/A
M.6.1	Short circuits	an an	N/A
M.6.1.1	General requirements	LIER RIFE MILL WALL WILL	N/A
M.6.1.2	Test method to simulate an internal fault	. I to the state of	N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)	MILL MILL MILL MILL	N/A
M.6.2	Leakage current (mA)	SLIEF OUTE SOUTH WALLY	N/A
M.7	Risk of explosion from lead acid and NiCd batteries	TEX TEX STEX STEX STEX	N/A
M.7.1	Ventilation preventing explosive gas concentration	of the text the start with	N/A
M.7.2	Compliance and test method	The Man and any	N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries	MATER WILLIAM	N/A
M.8.1	General requirements	The state of the s	N/A
M.8.2	Test method	with mit me me a	N/A
M.8.2.1	General requirements	at alt the state of	N/A
M.8.2.2	Estimation of hypothetical volume Vz (m³/s)	The me me in m	
M.8.2.3	Correction factors	EL TEL TEL STEE WITE	MITE
M.8.2.4	Calculation of distance d (mm)	The M. M.	. ←
M.9	Preventing electrolyte spillage	TER STEE STEE WITE WITE	N/A
M.9.1	Protection from electrolyte spillage	Mr. Mr. Mr.	N/A
M.9.2	Tray for preventing electrolyte spillage	LIET OLIET WITE WALL ON	N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)	Mentioned in battery specification	P
CLIER ON	I writ will with the the	at let let let liter	MITE
N	ELECTROCHEMICAL POTENTIALS	me me me	N/A
TER WILL	Metal(s) used	MITH WITH WITH WAITH	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0	MEASUREMENT OF CREEPAGE DISTANCE	S AND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied	Considered	

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1 (010101100 1	10 11 17.20/(122010000	r ago oo or	000	
TER INLIE	White Mur aut au	EN 62368	+1 dt dt dt	alter miter white
Clause	Requirement – Test	LIER WALTE	Result – Remark	Verdict

70.	the state of the state of	they are my my my	55347
DULLER W	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	ON OBJECTS AND SPILLAGE OF	N/A
P.1	General requirements	the state of the s	N/A
P.2.2	Safeguards against entry of foreign object	with while were a	N/A
Et JEY	Location and Dimensions (mm)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	er
P.2.3	Safeguard against the consequences of entry of foreign object	MILL MILL WITH THE	N/A
P.2.3.1	Safeguards against the entry of a foreign object	LIE WHILE WILL WILL WILL	N/A
ner on	Openings in transportable equipment	ex rise site mile mile	N/A
LIEK WALT	Transportable equipment with metalized plastic parts	Tet TET TET STEEL	N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard)	Writer Muries Muries Muries Muries	N/A
P.3	Safeguards against spillage of internal liquids	No internal liquids.	N/A
P.3.1	General requirements	3 1 t st	N/A
P.3.2	Determination of spillage consequences	The state with the	N/A
P.3.3	Spillage safeguards	4 11	N/A
P.3.4	Safeguards effectiveness	With with whit will w	N/A
P.4	Metallized coatings and adhesive securing parts	No metallized coatings or adhesive securing parts.	N/A
P.4.2 a)	Conditioning testing	, , , , , , , , , , , , , , , , , , ,	N/A
mr. m	Tc (°C)	tel nite inite while while	in_
1t 5	Tr (°C)	1 1 1 1	. (6 <u>t</u>
, 'n,	Ta (°C)	WILL MULL MAN MAN AND	
P.4.2 b)	Abrasion testing		N/A
P.4.2 c)	Mechanical strength testing	Will mer mer and any	N/A
LIE	of the write with white will all the	the first state and the	RETE
Q	CIRCUITS INTENDED FOR INTERCONNECT	ON WITH BUILDING WIRING	N/A
Q.1	Limited power sources	of the tree street outless.	N/A
Q.1.1 a)	Inherently limited output	me me me	N/A
Q.1.1 b)	Impedance limited output	THE LIFE SLIET MITE A	N/A
* WULLER	- Regulating network limited output under normal operating and simulated single fault condition	MILER MILER MILER MILER ON	N/A
Q.1.1 c)	Overcurrent protective device limited output		N/A

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ie. Will	EN 6236	8-1	alie alie an
Clause	Requirement – Test	Result – Remark	Verdict
Q.1.1 d)	IC current limiter complying with G.9	ALTER MALES AND THE AND	N/A
Q.1.2	Compliance and test method		N/A
Q.2	Test for external circuits – paired conductor cable	King Must Must Must	N/A
in the	Maximum output current (A)	E WILL MULTER WALL	mr mr m
EX TIEN	Current limiting method		ifet jet uni
R J	LIMITED SHORT CIRCUIT TEST	June with the st	N/A
R.1	General requirements	Marie Marie Marie Marie	N/A
R.2	Determination of the overcurrent protective device and circuit	LEE MITTER WAITER WAITER	N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).	A STER WILL MILES	N/A
s writer	TESTS FOR RESISTANCE TO HEAT AND F	IRE CONTRACTOR OF THE CONTRACT	N/A
S.1	Flammability test for fire enclosures and fire		N/A
71/2 Z	barrier materials of equipment where the steady state power does not exceed 4 000 W	A TEE WALTER WALTER WALT	mer mer
المالية المالية	Samples, material	NITES MITTER	MALITE MALITE
	Wall thickness (mm)		- th-
in The	Conditioning (°C)	. Life out whit w	ULL ME OU
L UNLIEK	Test flame according to IEC 60695-11-5 with conditions as set out	THE LIFE WAY	N/A
1	- Material not consumed completely	ha the the	N/A
Wrize M	- Material extinguishes within 30s	THE STEE STEEL SMITE	N/A
. t	- No burning of layer or wrapping tissue	20 20 3	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	White white white	N/A
WALTE	Samples, material	TEX STER STEEL OF	lite with
,t	Wall thickness (mm)		at at all
Mr. 1	Conditioning (°C)	TER STEE SPITE SPITE	Mr. Mur.
INLIEK WIN	Test flame according to IEC 60695-11-5 with conditions as set out	at lifet lifet wifet	N/A
IEK MIK	Test specimen does not show any additional hole	A Let Jet	N/A
S.3	Flammability test for the bottom of a fire enclosure	Must my Amen A	N/A
7/1	Samples, material	WILL MULL MULL AND	10, 10,
C. C. C. C.	Wall thickness (mm)		y 16 16

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		EN 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement – Test	Result – Remark	verdict
A CLEE	all mit with with the	The second second	Willes Wille
- 2n	Cheesecloth did not ignite	With My My My	N/A
S.4	Flammability classification of materials	at at all set	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady-state power exceeding 4000 W	the water water water water	N/A
EX LITE	Samples, material	A 1 1 1 1 1	TEK TIT
20	Wall thickness (mm)	write mil with whi	21 20
DLIE	Conditioning (test condition), (°C)	let let liet liet	mii it maile
JEK .	Test flame according to IEC 60695-11-20 with conditions as set out	and the state of	N/A
7 ESF - K	After every test specimen was not consumed completely	white must must an	N/A
4 °4	After fifth flame application, flame extinguished within 1 min	WHITE WHITE WHILL WAS	N/A
"Inti	Aug and an an text	THE STEEL WITH WITH	mi, mr.
T A	MECHANICAL STRENGTH TESTS	m n + st	P
T.1 3	General requirements	IER WILLER WILLER MUTTER MUTTER	nii Jin'P
T.2	Steady force test, 10 N	(see appended table T2)	N/A
T.3	Steady force test, 30 N	and the same	N/A
T.4	Steady force test, 100 N		N/A
T.5	Steady force test, 250 N	MULLE MULLE MULL MULL	N/A
T.6	Enclosure impact test	The set set set	N/A
20	Fall test	THE MET MUT MUT.	N/A
ur ^{lier} N	Swing test	et let let liet liet o	N/A
T.7	Drop test	The The The Land	N/A
T.8	Stress relief test	(See appended table T.8)	In Par
T.9	Impact Test (glass)	No glass used	N/A
T.9.1	General requirements	NITE WALTER WALLE WALL	N/A
T.9.2	Impact test and compliance	at at all all	N/A
20, 1	Impact energy (J)	the mer mer mer a	n
ALTER OF	Height (m)	the tell tell stell of	JER JALTE J
T.10	Glass fragmentation test	my my my m	N/A
T.11	Test for telescoping or rod antennas	THE STIEF STIEF SPITE	N/A
t let	Torque value (Nm)	Mr. Mr. A. A.	d -d
Mil	The the the	LIET ALTER MITTER MAILE	mi mi

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ITER INLI	e with mer mer me	EN 62368-1	LIER WILL MILL
Clause	Requirement – Test	Result – Remark	Verdict

O. All	MECHANICAL STRENGTH OF CATHODE RAY TUBE PROTECTION AGAINST THE EFECTS OF IMPLOSION	
U.1	General requirements No CR	Ts N/A
U.2	Compliance and test method for non-intrinsically protected CRTs	N/A
U.3	Protective Screen	N/A
V III	DETERMINATION OF ACCESSIBLE PARTS (FINGER WEDGES)	S, PROBES AND N/A
V.1	Accessible parts of equipment	N/A
V.2	Accessible part criterion	N/A

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LIER WIT	White whi whi	IEC62368_1 - ATT	ACHMENT	ALTER MITER WALTE
Clause	Requirement – Test	TEX CIEN WITH	Result – Remark	Verdict

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

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

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

Attachment Form No.: EU_GD_IEC62368_1D_II

Attachment Originator Nemko AS

Master Attachment.....: Date 2021-02-04

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	CENELEC (COMMON MC	DIFICATI	ONS (EN)				-
TERMITE		bclauses, note 62368-1:2014		igures and anne ed "Z".	xes which ar	e additional to	, si	TE P
CONTENT	Annex ZA (r correspondir Annex ZB (r Annex ZC (i	ng European p normative)Spe nformative)A-c	mative refe publications cial nationa deviations				JUN II JLIEF	EK PIL
VILLE MUT		ne "country" i o the followir		e reference do	cument (IEC	62368-1:2014	21	Р
	0.2.1	Note	1	Note 3	4.1.15	Note	4	
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	NLT E	
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note		
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3		
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	. 'n	
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	ري در	
SLIFE S	For special	national con	ditions, se	e Annex ZB.	d	alt get	_([]	
1		use of certain sub oment is restricted		100.00	White white	A MULLER MULL	EK V	N/A



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TCICI	TOTICC I	10 W 17/20/ 12/2040000	1 age 55 of	00 111 120	
C. C. F.	MITE	white with white	IEC62368_1 - ATT	ACHMENT	ALTER WITE MAIL
Clau	use	Requirement – Test	TEK LIEK MAITE	Result – Remark	Verdict

4.Z1	Add the following new subclause after 4.9:	alie while when when wh	N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains , protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;	SEX WHITEX	
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	A MATER MATER MATER WATER	
	c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	NATER WHITER WHITER WHITER WHITE	
nt whitek	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	divite antity white and the	anne v
5.4.2.3.2.4	Add the following to the end of this subclause:	No connection to external circuit.	N/A
MALTER WA	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	Et WRITER WRITER WRITER WRITER	WILLER
10.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.	No radiation.	N/A

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Clause	Deguirement Teet	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	Verdict
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or presets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	Added.	N/A
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.	the white white white white white the text white the text was the text white the text white the text white the text white the text was the text white the text white the text was the text white the text white text white text was the text white text white text white text was the text white text white text was the text white text was the text white text white text white text was the text white text was the text white text white text was the text white text was the text was the text white text was the text white text was the text was th	White white
	Moreover, the measurement shall be made under fault conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	white white whites and	in the suntiles sunt the suntiles suntiles
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	TER WALTE WALTE WILL	writes writes
10.6.1	Add the following paragraph to the end of the subclause: EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	Added.	N/A
10.Z1 JUNITER WILLIAM SETER WILLIAM SETER WILLIAM WALTER WILL WALT WALTER WILL WALTER WILL WALT WALT WALT WALT WALT WALT	Add the following new subclause after 10.6.5. 10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	ett outek mitek mitek	N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	JUNITER WHITER WHITER	UNITEK UNITEK U
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand-held and body-mounted devices, attention is drawn to EN 50360 and EN 50566	TEX WITEX WHITEX WHITEX	MULTER WALTER
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	Added.	N/A



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			70		
LIEN INLIE	IEC62368_1 - ATTACHMENT				
Clause	Requirement – Test	STER STER WALTER	Result – Remark	Verdict	

Bibliograph	Add the following standards:	N/A	
у	Add the following notes for the standards indicated:		
ant in	IEC 60130-9 NOTE Harmonized as EN 60130-9.		
× 1	IEC 60269-2 NOTE Harmonized as HD 60269-2.	d.	
WILL WILL	IEC 60309-1 NOTE Harmonized as EN 60309-1.	ares are	
	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.		
THE RITER	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	CLIEF WILLE	
2,,	IEC 60664-5 NOTE Harmonized as EN 60664-5.		
	IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).		
21/2 21	IEC 61508-1 NOTE Harmonized as EN 61508-1.	21/2	
t	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.	t et	
inti uni	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.	With M	
4	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.	1	
LIEW OLIFE	IEC 61643-1 NOTE Harmonized as EN 61643-1.	WITE WILL	
-20,	IEC 61643-21 NOTE Harmonized as EN 61643-21.	2, 2,	
It SER	IEC 61643-311 NOTE Harmonized as EN 61643-311.	JEK JEE	
21/2 1	IEC 61643-321 NOTE Harmonized as EN 61643-321.	74	
- t	IEC 61643-331 NOTE Harmonized as EN 61643-331.	et let	
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	m. c	
4.1.15	Denmark, Finland, Norway and Sweden	N/A	
Wry Mur.	To the end of the subclause the following is added:	Mur. M.	
TEX WILLES	Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.	Walter White	
LIEK WALTE	The marking text in the applicable countries shall be as follows:	UNLIEK WAL	
EK WALTEK	In Denmark : "Apparatetsstikpropskaltilsluttes en stikkontakt med jordsom giver forbindelsetilstikproppensjord."	TEK WALTE	
WILLEX W	In Finland : "Laite on liitettäväsuojakoskettimillavarustettuunpistorasi aan"	S.X. WALTEX	
INLIEK WAL	In Norway : "Apparatetmåtilkoplesjordetstikkontakt"	MULTER	
TEN TEN	In Sweden : "Apparatenskallanslutas till jordatuttag"	JEK J	

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current is required if the **touch current** exceeds the limits of 3,5 Ma a.c. or 10 Ma d.c.

IEC62368_1 - ATTACHMENT				
Clause	Requirement – Test	Result – Remark	Verdict	
4.7.3	United Kingdom	LIET WHITE WHITE WILL	N/A	
	To the end of the subclause the following is added:	EX TEX STEX STEX STEX	MALTE	
	The torque test is performed using a socket- outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	MULTER MULTER MULTER	MALTEK	
5.2.2.2	Denmark After the 2 nd paragraph add the following: A warning (marking safeguard) for high touch	No high touch current measured.	N/A	



	1 15 10 10				
TEN INLT	IEC62368_1 - ATTACHMENT				
Clause	Requirement – Test	Result – Remark	Verdict		

Clause	Requirement – Test	Result – Remark	Verdict
5.4.11.1 and Annex	Finland and Sweden	No connection to such network.	N/A
G Annex	To the end of the subclause the following is added:	LEX SLIEN WILLEY WILLEY WALL	E WALTER V
	For separation of the telecommunication network from earth the following is applicable:	at 1st 1st 1st	NITEK IN
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	White white white white	WILLER MUTE
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	ance and was allest an	Tex MULTER
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	et street writest white	MULTER AN
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	JEL Whitek whitek whitek whitek	WALTER WALTER
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 Kv multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 Kv), and	Multer white	MULTER MY
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5Kv.	unite unite unit unit	ale wrest
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	et let let out must be	et Milex
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	THE STEE WITH WITH	WALTER WAL
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 Kv defined in 5.4.11;	united united united whitely w	n tek watek
	• the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	t tex tex tex tex	F WILER
	the impulse test of 2,5 Kv is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	MUNITER MULTER MULTER	DATEK WALT

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IEC62368_1 - ATTACHMENT				
Clause	Requirement – Test	Result – Remark	Verdict	

Clause	Requirement – Test	Result – Remark	Verdict
	nit with white year year	a state of	The Street
5.5.2.1	Norway After the 3 rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	TEX MULTER MULTER WILLER	N/A
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added: Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipmenttype A shall comply with G.10.1 and the test of G.10.2.	No such resistor used.	N/A
5.6.1	Denmark Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	Added.	N/A
5.6.4.2.1	Ireland and United Kingdom After the indent for pluggable equipment type A, the following is added: - the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	Added.	N/A
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area.	EX MULTER	N/A
5.7.5	Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 Ma a.c. or 10 Ma d.c.	TEX WHITEX WHITEX WHITEX	N/A



IEC62368_1 - ATTACHMENT				
Clause	Requirement – Test	Result – Remark	Verdict	

Clause	Requirement - rest	Result - Remark	verdict
7 36	CLI WE WE WAY TO	it it it it	The Silver
5.7.6.1	Norway and Sweden	ALTE MILE WALL WALL	N/A
	To the end of the subclause the following is		J+ J+
	added:The screen of the television distribution	at at the start	all's all's
	system is normally not earthed at the entrance	in the same of	11. 12.
	of the building and there is normally no	2	* *
	equipotential bonding system within the	- It It I'm I	The Will SI
	building. Therefore the protective earthing of	with the sure sur	20, 2,
	the building installation needs to be isolated	200	4 15 X
	from the screen of a cable distribution system.lt	Let tell tell tell	The state of
	is however accepted to provide the insulation	WITH MUT MUT AND	2)
	external to the equipment by an adapter or an	3	at the
	interconnection cable with galvanic isolator,	Let LEK LIER LIE	and and
	which may be provided by a retailer, for	The Mary Mary Mark	20, 2,
	example. The user manual shall then have the		A ST
	following or similar information in Norwegian	at the the state of	The War is
	and Swedish language respectively, depending	an an an a	
	on in what country the equipment is intended to	1 4	it it .
	be used in: "Apparatus connected to the	THE CLEAN STEEL WAS	in the
	protective earthing of the building installation	are are an	
	through the mains connection or through other	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· Let Le
	apparatus with a connection to protective	TER TER NITE ONLY	ar ar
	earthing – and to a television distribution	4. 24. 24. 24.	
	system using coaxial cable, may in some	e at at	18 JE
	circumstances create a fire hazard. Connection	THE LIFE STILL WITH	ne are
	to a television distribution system therefore has	7/1 7/1 2	
	to be provided through a device providing		All All .
	electrical isolation below a certain frequency	The Carlo	in all
	range (galvanic isolator, see EN 60728-11)"	3 3	
	NOTE In Norway, due to regulation for CATV-installations,		JE JE N
	and in Sweden, a galvanic isolator shall provide electrical	with all wall was	n in
	insulation below 5 MHz. The insulation shall withstand a	211. 211. 2	
	dielectric strength of 1,5 Kv r.m.s., 50 Hz or 60 Hz, for 1 min.Translation to Norwegian (the Swedish text	A ST ST ST	The Wille
	will also be accepted in Norway):	life with with with	21/2
		20 20	A 14
	"Apparatersomerkoplettilbeskyttelsesjord via	A ST SET SET	alte alte
	nettpluggog/eller via annetjordtilkopletutstyr –	all with which	20, 1
	ogertilkoplet et koaksialbasertkabel-TV nett,	20.	+ +
	kanforårsakebrannfare. For å	AT AT SET S	The Walter of the
	unngådetteskaldetvedtilkoplingavapparatertilka	They were were all	200
	bel-TV nettinstalleres en galvanisk isolator	7	t st d
	mellomapparatetogkabel-TV nettet."Translation	At the the time	in the
	toSwedish:"Apparatersomärkopplad till skyddsjord via jordatvägguttagoch/eller via	The way were an	2,
			JEH JEH
	annanutrustningochsamtidigtärkopplad till kabel-TV nätkan i isa fall medfőra risk főr	LET THE THE STEE	The wife
	brand. Főrattundvikadettaskall vid	is one one one	200
	anslutningavapparaten till kabel-TV	1 1	Let Let
	nätgalvanisk isolator	H THE LITE SITE OF	The Water of
		The The The In	
	finnasmellanapparatenochkabel-TV nätet.".	me me m. m.	.t .it



	IEC62368_1 - ATTACHMENT				
Clause	Requirement – Test	Result – Remark	Verdict		
The state of	all will will and any	the set of	ille internation		
5.7.6.2	Denmark To the end of the subclause the following is added: 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.	PER WHITE WHITE WHITE	N/A		
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met	MULES WHITES WHI	N/A		
G.4.2	Denmark	he me m m	N/A		
	To the end of the subclause the following is added: Supply cords of single phase appliances having	TEK WALTER WALTER WALTE	WALTE WALTE		
	a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	E Tomas	aur aur		
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	untile untile untile until			
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	EX WHITEX WHITEX WHITEX	MILLER MILLER		
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-	INTER MILIER WHITER WI	TEX MUTER ON		

1-5a or DK 1-7a Justification:

D1:2011 standard sheet DKA 1-4a.

Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.

compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK

Mains socket-outlets with earth shall be in

Heavy Current Regulations, Section 6c



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1, 20,	The The The	IEC62368_1 - ATTA	CHMENI	alter with whi
Clause	Requirement – Test	TEX THE WITE	Result – Remark	Verdict

	all all and and and	at the second
G.4.2	United Kingdom To the end of the subclause the following is added: The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated	N/A
WALTER	Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	ex writex write
G.7.1	United Kingdom	N/A
	To the first paragraph the following is added:	Mur Mur Mur
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	ILLER WILLER WIL
G.7.1	Ireland	N/A
TEK WILTER WINLTER WINLTER WINLTER	To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	EX WALTER WALTER WALTER
G.7.2	Ireland and United Kingdom	N/A
at a	To the first paragraph the following is added:	
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	TER UNITE OF THE WAY
	over 107 and up to and mordaling 107t.	

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	110:: W17(20)(1220+0000	1 ugc ++ 01 00	
CIER WIT	White Mary Mur	IEC62368_1 - ATTACHMENT	LIER WITE WALL
Clause	Requirement – Test	Result – Remark	Verdict

10.5.2	Germany	Not such equipment.	N/A
	The following requirement applies:	the state of the s	26 26
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 Kv, authorization is required, or application of type approval (Bauartzulassung) and marking.	whitek whitek whitek whi	et united.
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	White white white white	
	NOTE Contact address: Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	est whitest whitest white whi	t until



4.1.2	TABLE: List of critica	P			
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity1
PCB	SHENZHEN UNIWELL CIRCUITS CO LTE	UW01	V-0, 130°C	UL 796	UL E314500
Plastic enclosure	Covestro Deutschland AG [PC Resins]	FR3010 IF +	1.5mm, V-01, 85°C	UL 94	UL E41613

4.8.4, 4.8.5	TABLE: Lithium coin/button cell batteries mechanical tests				
(The follow	ing mech	anical tests are conducted in th	ne sequence noted.)	at at	
4.8.4.2	TABLE	E: Stress Relief test	TEX ITEX STITUTE STATE STATE	Ville Anti-	
Par	t de	Material	Oven Temperature (°C)	Comments	
, m-	in.	70 L - St	EX TITLE WITE WITE WATER ON	. "ur" "n	
4.8.4.3	4.3 TABLE: Battery replacement test		W To the A	t gitt git	
Battery pai	rt no		LIET WILL WHILL WHILL WHILL	mm.	
Battery Ins	tallation/	/withdrawal	Battery Installation/Removal Cycle	Comments	
in in		a state set	as I will we will	m m	
			2	LITER OLITER O	
			3		
			d 4 7 3 4	The Marie Wal	
			5		
			6	White whis	
			8 11 11	at at	
			3 × 34 50 9 50 10 10 10 10 10 10 10 10 10 10 10 10 10	mer mer	
18th 18	the state	A WILLIAM WILL MAN A	10	at Set	
1.8.4.4	TABLE	: Drop test	TEX INCIDE WALTE WALTE WALTE WALTE OF	11/2 21/	
mpact Area	a nitter	Drop Distance	Drop No.	Observations	
4,	, , ,	LEK TEK TEK INTE	The the that the	1 ×	
WILLIAM	الا ما	i mi mi m	d d d2 d d	NATION WALLE	
<i>i</i> +	cet s	A LIET ALTER WALTER	3	at at	
4.8.4.5	TABLE	: Impact	THE LIE NET WITH MILE WATER	And the A	
Impacts	s per	Surface tested	Impact energy (Nm)	Comments	
t get	. CTEX	NITER WILL - WILL WAY	n 1 - 2		
4.8.4.6	TABLE	: Crush test	CLIER WILLE WILL MILL WILL WILL	mm.	
Test po	sition	Surface tested	Crushing Force (N)	Duration force	

11. 11.		alier mie mit mei	applied (s)
at the tree	ALTER MALTE ANTICLE VANCE	- t t	All All JES
Supplementary infor	mation:	THE CLIFE WALLE WALLE	in my m

4.8.5	TABLE: Li	thium coin/button cell batteri	es mechanical test result	N/A
Test po	sition	Surface tested	Force (N)	Duration force applied (s)
st st	Tet .	TEX NITER - NITER WHITE	me me to to	# # 1
Supplemer	 ntary informa	tion:	at the the stay	mir anir an

5.2	.2 TABLE: Classification of electrical energy sources						
5.2.2	2.2 – Steady	State Voltage and	Current conditions	in m	-22	- L	t set
W.	and .	Lasation (s. a.	at the st	- STEK MITE	Parameters	VILL ANDER	me m
No.	Supply Voltage Location (e.g. circuit designation)	Test conditions	U (Vrms or Vpk)	l (Apk or Arms)	Hz	ES Class	
	VILL WILL	Mr. Mr.	Normal	3.6V	LIER - NIE	DC	VII. MUEL
1	3.6V	Input and	Abnormal	1 1/2 11	2 4	<i>√</i>	ES1
wi	ir	internal circuits	Single fault – SC/OC	EK MITEK WAL	ER MALTE	intit -wit	Mur

		* * * * // -	A 12 34			10 - 10	9, 2,
5.2.2	2.3 - Capacit	ance Limits	in The West				+ .
NI.	Supply	Location (e.g.	Tast sanditions	All St	Parameters	The SALTE	FC Class
No.	Voltage	circuit designation)	Test conditions	Capacitance	e, nF	Upk (V)	ES Class
a	10	- 5"	Normal	LIER OLITER	ancie anci	Avr. M	-20
کنے	EX JULIER	MILITER WALTER V	Abnormal	, J.	at at	TEX TEX SU	
	SLIEK OUT AND THE WAY		Single fault – SC/OC	Mr. M	it it.	ART JEH	NITEX O
5.2.	2.4 - Single F	Pulses	t Tet Mile	WILL WILL	mer m	r ar	7, 2
e th	O. maked hit	Location (e.g.	Test conditions	Parameters			TER WITE
No.	Supply Voltage	circuit designation)		Duration (ms)	Upk (V)	lpk (mA)	ES Class
m	70,	1 1	Normal	The specific so	Vrie Aver	mr - m	10
بر می	L CLIER .	161 TEL WILLE W	Abnormal		et - et	JEH - JEH	CLIER V
	TEX .	ITE NITER WAY	Single fault – SC/OC	white wh	10 M	1. The 1. The	THE T
5.2.2	2.5 - Repetiti	ve Pulses	- LET SET	ALTER MITE	Write My	in me	1100 110
Ģ.	Commission	Location (e.g.	mr m.	Parameters			JEK JE
No.	Supply Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class



	14. 14.	4 2	Normal	NITER-MITE	The The	100	10
*	LIER WILL	MITEL MITE	Abnormal	* _ · _	d e de	t start s	iek <u>litek</u>
211	et let	LIEK OLIEK	Single fault – SC/OC	NITE MALLE	Mury - Mur	74 76	

Test Conditions:

Normal -

Abnormal -

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

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Tempera	ements	nents with the same of the sam					
at .	Supply voltage (V)	(i)	Normal w	orking	<u>,, , , , , , , , , , , , , , , , , , ,</u>	at at	, +
no an	Ambient T _{min} (°C)		£ 5	TEX TER BUTE BUTE MILL WALL		in the	mr. m	
JEK JE	Ambient T _{max} (°C)		:: 41/2.	See be	iow	at all	- TEX	STEK- ST
Maximum r part/at:	measured temperat	ture T of	WILLER	White.	T (°C	, we	2112 2	Allowed T _{max} (°C)
PCB near U1		25	5.8	81.3	M-LT.	mr m	130	
Battery body		25	5.5	81.0	- 	16t- 56	Ref	
Plastic enclosure inside near Battery		25	5.3	80.8	01- 01	-7/12	85	
Ambient	" Ary Jak	1 / 2h	24	1.5	80.0	1-/5	et -ciet	NITE ON
Accessible	part	18t It	NUTTE.		Shift to 25°C	- 1	All the	STEP - STE
Plastic enc	losure outside near	Battery	25	5.1	25.6	77/	200 - 21	77
Ambient	INLIE WALLE WA	in Mrr.	24	1.5	25.0	- 7 6*	J ⁰ 2 J	ek jeter
Supplemer	ntary information:-	t let i	LIE U	The MI	is me	11/2 1	1, 2,	
Temperatu	re T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	$R_2\left(\Omega\right)$	T (°C)	Allowed T _{max} (°C)	Insulation class
The sile	RLIE WILL	" 1 m	7,,		-	A 16	- All	J J.

Supp	lementary	inf	formation:
------	-----------	-----	------------

Note 1: Tma should be considered as directed by appliable requirement

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

Note 3: The maximum ambient temperature specified by manufacturer is 80°C.

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics			
Penetration (mm)	with mile on the wall our	14 14 -	
Object/ Part No./Material	Manufacturer/t rademark	T softening (°C)	
4 TEX STEE OUTE SINTE SHE	10 10 7	at the state of	



5.4.1.10.3 TABLE: Ball pressure test of thermoplastics					
≤ 2 mm	THE THE STATES				
mark Test temperature (°C)	Impression diameter (mm)				
	the state with a				

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimun	E: Minimum Clearances/Creepage distance					N/A	
	cl) and creepage) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required 3 cr (mm)	cr (mm)
JILIE MI	in min min	2/L	1,	<30	- - - 	>0.5	Er Tie	>0.5

Supplementary information:Note1: Material Group: IIIa/IIIb;

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

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage Overvoltage Category (OV):					
10,						
CLIEB.	Pollution Degree:	ee: Jih Jih Jih Jih				
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Measured	l cl (mm)	
See table 5.4.3 abo	e 5.4.2.2, 5.4.2.4 and ove.	e re mile si		The sur-	Mr.	

Supplementary information:BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation.

1)See appended table **5.4.2.2**, **5.4.2.4** and **5.4.3** for measurements.

5.4.2.4 TABLE: Clearances I	N/A		
Test voltage applied between:	Required cl (mm)	Test voltage (Kv) peak/ r.m.s. / d.c.	Breakdown Yes / No
- 1 1 1 1	· TEX - NITE N	Use and - and day	24, -2, ,
Supplementary information: Not us	ed the alternative me	thod to determine the clear	ances.

5.4.4.2, TA 5.4.4.5 c) 5.4.4.9	BLE: D	istance through insu	ulation measure	ements		N/A
Distance through insulation di at/o		Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)
in the	2,	, **	1 1 B	CIEL SITE	WILL WILL	are - m



5.4.9	TABLE: Electric strength	tests	MULT AND MADE	N/A
Test volta	age applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Function	al: Test Street Miles Miles	White Mr. M.		TEX TEX
7100 1	1. 24 2.	John Tell - STEEL OF	ster with - with a	15 M. 2
TEX .	THE RUTER WALTER WALTER	Basic/supplementary:	at at all a	iek liek ni
- n		TEX TEX TELESTICAL	Aur Aug Aug	z _n z _n .
State State	MILE WILL MILE ON	711 2 X	- At - St	t still mile
Reinforce	ed:	EX LIEX MILIE MILLE	mer me me	24 2
- NITER	WALLE MALL WALL WALL	3 JE 15	TEK ITEK	MITER - MITE.
- 4	at at let set	WILL MILL - WILL O	1 - 24 - 24	t
Routine 1	Tests: W W	Str. Lit.	TER LIER STEEL	LIFE MILITE IN
	et let let litet.	TILE - MULL AND AND	- 11, 21, 2	
Supplement #: all alter	entary information: rnative sources have been cons	sidered.	MILIER MILIER WAL	MULL MUE

5.5.2.2	TABLE:	Stored disc	charge on capac	itors		711	N/A
Supply Voltage (V), Hz		Test Operating Condition (N, S)		Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification	
Ver All	400	A - F	A ~=	(E) - (TE)	- Santi	CINCLE CHE	7
Supplement			01+02 -1 0				
200,000		•	are: C1+C3 =1.0ı R51 (680K for ea				
△ bleeding	g resisioi	rauriy. Koo, i	X31 (000K 101 ea	CH).			
ICX-							
☐ ICX:							
-33° S	cation:						
Notes: A. Test Lo		nase to Phas	e; Phase to Earth	n; and/or Neu	tral to Earth		
Notes: A. Test Lo Phase to N	Neutral; Ph	nase to Phas ion abbreviat		n; and/or Neu	tral to Earth		

5.6.6.2	6.6.2 TABLE: Resistance of protective conductors and terminations				
MALTER A	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
		* let - liter o	The Maria M	1115 - 111	2, - 1

5.7.2.2, 5.7.4	2, TABLE: Earthed accessible conductive part			
Supply vo	oltage	THE THE THE STEE STEE	WITE WHITE	
Location	NITER WHITER WHITER WHITE WA	Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1	Touch current (mA)	



An An A Cat	through 6.2.2.8, except for 6.2.2.7	24. 24
* TEX STEE MITE WILL WALL WALL	1, 1,	N/A
	2*	N/A
	3 /	N/A
	the sure 4 are sure	N/A
	5 / 5	N/A
	6	N/A
	A 1 8 5 5 5	N/A

Supplementary Information:

N/A

Notes:

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

6.2.2	Table: Electric	WILL WAR			
Source	Description	Measurement	Max Power after 3	Max Power after 5 s*)	PS Classification
1 1		Power (W) :	Will The Land	7 - 70 2	a st
All internal circuit		V _A (V) :	A A SE	The training	PS1 (declaration)
Circuit		I _A (A) :	r. anr - an	24 1	(ucolaranori)

Supplementary Information:

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

6.2.3.1	Table: Determin	ation of Potentia	I Ignition Sources	(Arcing PIS)	N/A
ek white	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No
. LIE	mite with with	7115 120	L - A	lek 1 0 14 (1814	NITER - NITE

Supplementary information:

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

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

d



\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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
	21/2 21/2 - 22	- J	et the	Life Wille	West Comments	, 10, n,

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

8.5.5	TABLE: High Pressure Lamp		N/A
Description	1 LET THE THE STEEL OF THE	Values	Energy Source Classification
Lamp type		THE SHE ST	it with white will white
Manufactu	rer	ur au au	1 x - 0 A
Cat no		TER STER OUTER	anti mati wat with a
Pressure (cold) (MPa)		MS_
Pressure (operating) (MPa)	title	MS_w
Operating	time (minutes):		A TEM LIER ALTE
Overall res	sult:	CLIFE WALTER WAL	in the man and the
Supplemer	ntary information:	ret aret mit	ANLIER WHITER WHITER WHITER

B.2.5	TABLE: Inpu	t test					P N
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
3.6Vdc	0.003	0.09	0.0108	1/2		L - H	Normal working
Supplemen	ntary information	n:		× 16	500 25	The state of	re me m

Equipment may be have rated current or rated power or both. Both should be measured

B.3	TABLE: Abnormal operating condition tests							
Ambient tem	perature (°C)	. 77	A 1	y .	<i>y</i> ,	The alter of	LIE WAL	in min m
Power sourc	e for EUT: Ma	nufacturer, mo	odel/type, o	utput rat	ing :	- 1, ,		+ Jel- 1
Component No.	Abnormal Condition	Supply voltage (V)	Test time	Fuse no.	Fuse currer (A)	100	Temp. (°C)	Observation



70, 1	 //	· *	40	- CV	WITH - WILL	100	21/2 21/2
	 25 /6			110	77.	100.000	

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.

B.4	TABLE: Fau	ult condition	n tests				P OF	
Ambient tem	perature (°C	;):	CLIE	25.0	ALL	Mr. 74		
Power sourc	e for EUT: N	1anufacturer	, model/type	, output r	ating:	1	- 26th	of the
Component No.	Abnormal Condition	Supply voltage, (V)	Test time	Fuse no.	Fuse current (A)	T-couple	Temp. (°C)	Observation
D2 WEIGH	S-C	3.6V	10min.	ek <u>u</u> nli ek <u>u</u> nli	y un Militer Militer	MULTER WILL	TEK LUNIT KUNITEK	Unit shut down immediately, no damage, no hazards.

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.

Annex M	TABLE:	Batteries	* Let .	NITER MI	in with	Mr.	21/2 21	10 10	Р	
The tests of	of Annex M	are applica	able only whe	n appropri	ate battery	data is no	t available	PET JE	Υ	
Is it possib	le to install	the battery	/ in a reverse	polarity po	sition?		- 20	2),	N	
WITE WY	Non-re	echargeabl	e batteries		Je∳ F	Rechargea	ble batteri	es	WILL M	
	Disch	arging	Un-	Cha	rging	Disch	arging	Reverse	Reversed charging	
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	
Max. current during normal condition	0.003	EF WILLER	WALLEY AND	sek whis	e whitek	NITER NO	Neter ou	STEP WALTER	untiek v	
Max. current during normal condition	White white	an _{tilik} an	TEK MUTEK	MULLER A	NUTER OUT	TEK WALTEK	e Antifek	NILLER VILLE	MITE <mark>F</mark> WI	
+ at	TEX	ITER SIT	MULLE	43 14	21	7/1/		J+ 1	* (5)	
Test result	s:			CEN CE	Later	ALIE OF	rise an	in and	Verdict	
- Chemical	leaks	A INLIE	William Aug	111	-20		No leaks	y 18	Р	



- Explosion of the battery	No explosion	Р
- Emission of flame or expulsion of molten metal	No emission	P. P. Car
- Electric strength tests of equipment after completion of tests	ir. M	N/A
Supplementary information:	et let let let	CLIE.

	Table: Ad batteries	ditional safeguards for o	N/A			
Battery/Cell		Test conditions		Observation		
No).		U	I (A)	Temp (C)	
Juneil Jun	is we	Normal	18 - I	t start s	NITER WILLES	Will AVE
		Abnormal	20 - day	- T	+ +	cet the
		Single fault –SC/OC (P- to B- shorted)	N LIER WHITER	White-whi	, mr. m	* "* "

Supplementary Information:

Abbreviation: SC=short circuit; OC=open circuit

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
- LEF (18)		10 - 10 - 11	- i	Tet 18th 18th 1
Supplementary I	nformation: S-C:	short circuit, O-C: open cir	cuit	Mur Mur Mur Mur

Annex Q.1	TABLE: Circuits	TABLE: Circuits intended for interconnection with building wiring (LPS) N/A							
Note: Mea	sured UOC (V) with	all load circuits	disconnected:	EF WITE ON	THE WALL WA	r 21/2			
Output	Components	U _{oc} (V)	I _{sc} ((A)	S (VA)				
Circuit			Meas.	Limit	Meas.	Limit			
10 - X	J. J. J. J.	VII. TU.	-21, -2,	- 4	N N	76th			

T.2, T.3, T.4, T.5	TABLE: Steady force test							
Part/Locati on	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation			
Jr - JJ	Jet Jet	LITER WALL	The other	1 5	L St-St			
Supplemen	tary information:		TEX SEX.	LIER WILL WILL	Mill Mull M			

T.6, T.9	TABLE: Impact tes	INCIE WALL WALL WAS	N/A		
Part/Location	Material Material	Thickness (mm)	Vertical distance (mm)	Observation	Whitek W



Annex M	TABLE: Batteries							n a	Р
The tests of Annex M are applicable only when appropriate battery data is not available								Y	
Is it possible	e to install	the battery	in a reverse	polarity po	sition?		- 14	7/1	N
CLIER IN	Non-rechargeable batteries			Rechargeable batteries				es	WITE S
20, 2,	Discharging Un-			Charging		Discharging		Reversed charging	
LIER WALL	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Ex TEX	E SITE WITE WA		100 1	10 0			18th	TEN C	SER SUFE

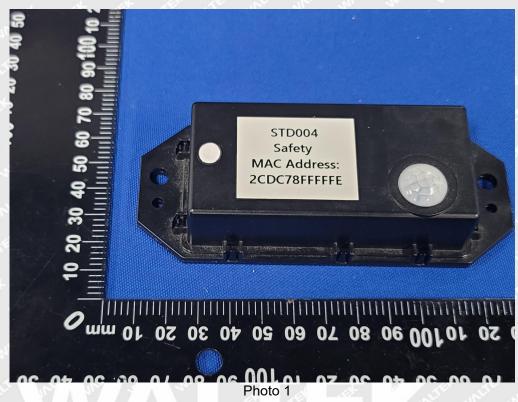
T.7	TABLE: Drop tests						
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation			
LIER - LIE	WALTE WALTE	ant mi	- 4	Tet Tet - with outlier of			
Supplement	tary information:	LEK TEK	LIER MALIE MALIE	me me me me			

T.8	ABLE: Stress relief test P							
Part/Location	n Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation			
Enclosure	Plastic	2.0	70	7 , 11	Enclosure remained intact			
Supplement	ary information:		of the st	CITE OUT	and while whi			



Photo Documentation

Model: STD004



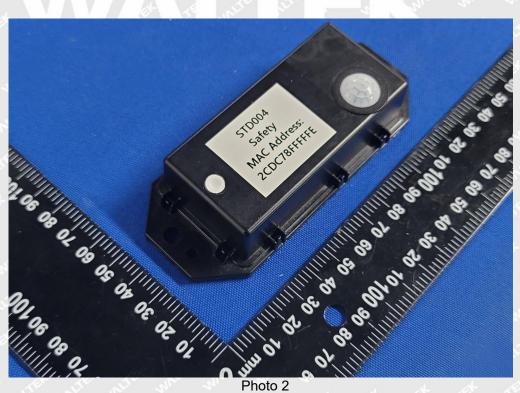




Photo Documentation



Photo 3

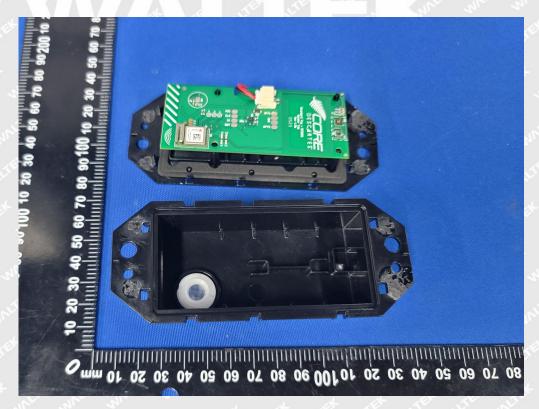


Photo 4



Photo Documentation

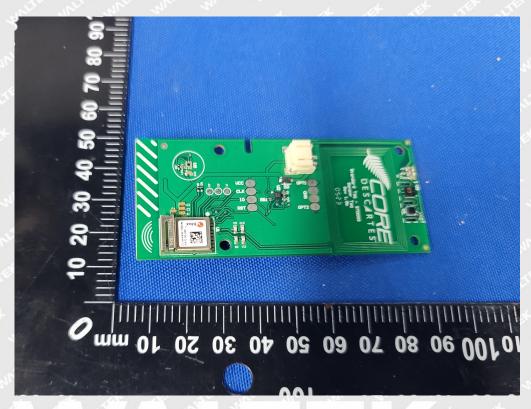


Photo 5

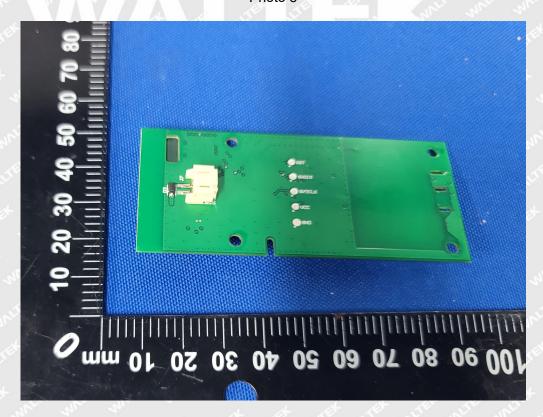


Photo 6



Photo Documentation



Photo 7

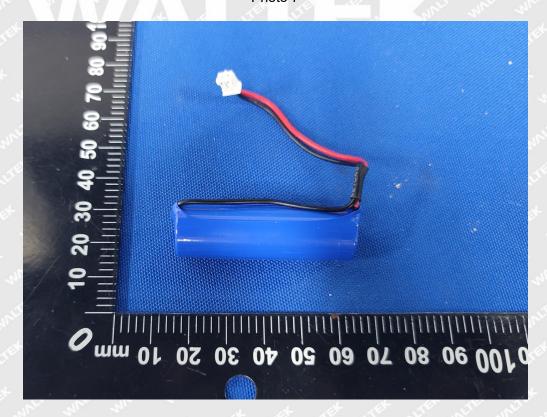


Photo 8 ===== End of Report =====