

# LVD TEST REPORT

On Behalf of

Prepared For :	Dongguan Maida Electronic Technology Co., Ltd. Office 1009, Fuxi Building, No. 33, Keyuan South Road, Chuangye Community, Guancheng Street, Dongguan, Guangdong, China
Trade Mark :	
Product Name :	power adapter
Model(s) :	DSM-0530, DSM-0531, DSM-0532, DSM-0533
Prepared By:	Shenzhen ZTS Testing Service Co., Ltd.         808, Building 1, 7th Industrial Zone, Yulv Community, Yutang Street, Guangming District, Shenzhen, Guangdong, China         Tel: 400-8788-298       Tel:0755-23245950         Web: www.zts-test.com       Email: zts@zts-test.com
Test Date:	Jan. 04, 2023- Jan. 10, 2023
Date of Report:	Jan. 10, 2023
Report No. :	ZTS23010407KRS

**Note:** This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen ZTS Testing Service Co., Ltd.



## TEST REPORT EN IEC 62368-1

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

52, 448 145 662, 148 145 662, 148 145 163, 348 145	16 10 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10
Report Number:	ZTS23010407KRS
Date of issue:	Jan. 10, 2023
Total number of pages	62 pages
Applicant's name:	Dongguan Maida Electronic Technology Co., Ltd.
Address	Office 1009, Fuxi Building, No. 33, Keyuan South Road, Chuangye Community, Guancheng Street, Dongguan, Guangdong, China
Test specification:	The treating the test time the treating the test time the test time the test time the treating the test time the
Standard:	EN IEC 62368-1:2020+A11:2020
Test procedure:	
Non-standard test method	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i$
Test Report Form No	IEC60950_1G
Test Report Form(s) Originator:	SGS Fimko Ltd
Master TRF	Dated 2019-07-02

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#### General disclaimer:

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

Test Item description	power adapter
Trade Mark	
Manufacturer	: Dongguan Maida Electronic Technology Co., Ltd.
Manufacturer Address	:: Office 1009, Fuxi Building, No. 33, Keyuan South Road, Chuangye Community, Guancheng Street, Dongguan, Guangdong, China
Model/Type reference	: DSM-0530
Additional models	DSM-0531, DSM-0532, DSM-0533
Ratings	:: Input: AC100-240V, 50/60Hz, 15W Output: DC 5V, 3A



Testing procedure and testing location				
Laboratory name	: Shenzhen ZTS Testing Service Co., Ltd.			
Testing location/address:	: 808, Building 1, 7th Industrial Zone, Yulv Community, Yutang Street, Guangming District, Shenzhen, Guangdong, China			
Testing procedure	: TL 🛛 RMT 🗌			
Tested By (Test Engineer)	: Miaolei Cheng	miaotii cheng		
Reviewed By (Supervisor)	: Nick Zhu	Niki Zhu		
Approved By (Chief Engineer)	: Tony Mo	Tony Mo		
$ \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	12 1/5 Testing 1/5 Testing 18 1/5 Testing 1/5 Testing 18 1/5 Testing 1/5 Testing 1/6 1/5 Testing 1/5 Testing 1/6 1/6 Testing 1/6 Testing 1/6 1/6 Testing 1/6 Testing	12 To reating the reacting to		
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tine 175 restine 15 restine 175 restine 17	15 118 175 Testing 15 165 15 108 175 Testing 15 16 Testing 15 Testing 15 75 5 Testing 15 Testing 15 5 Testing 15 Testing 15 15 Testing 15 Testing 15			



List of Attachments (including a total number of pages in each attachment):						
-Appendix 1: For requirements of European group of	differences. (9 pages)					
-Appendix 2: Photo attachments. (3 pages)	2 (estime 1/5) (es					
1997 - 1997 -	1. Les ing 12 les ing					
Summary of testing:						
Tests performed (name of test and test	Testing location:					
clause):	Shenzhen ZTS Testing Service Co., Ltd.					
All clauses.	808, Building 1, 7th Industrial Zone, Yulv Community, Yutang Street, Guangming District, Shenzhen, Guangdong, China					
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Summary of compliance with National Differen						
European group differences.	223 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
European group anterences.	6 1/2 (53) 1/10					
1. 2007 - 201, 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 1. 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 201 1. 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017	11 11 12 12 12 12 12 12 12 12 12 12 12 1					
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Copy of marking plate:

The artwork below may be only a draft.

power adapter Model: DSM-0530 Rating(s): Input: AC 100-240V, 50/60Hz, 15W Output: DC 5V, 3A



Dongguan Maida Electronic Technology Co., Ltd.

Office 1009, Fuxi Building, No. 33, Keyuan South Road, Chuangye Community, Guancheng Street, Dongguan, Guangdong, China

Made in China

TEST ITEM PARTICULARS:			
Classification of use by:	Ordinary person		
15 1 21 201 201 201 201 201 201 201 201 20	Instructed person		
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Skilled person		
esting the resting	Children likely to be present		
Supply Connection:	🖾 AC Mains 🔲 DC Mains		
To resting	External Circuit - not Mains connected		
(ng 1/2 tenting 1/	- 🗌 ES1 🔲 ES2 🖾 ES3		
Supply % Tolerance:	⊠ +10%/-10%		
الم	☐ +20%/-15%		
5 rest to the to rest the to r	· +%/%		
The restring the restriction of the rest			
Supply Connection – Type	Duggable equipment type A -		
estime 1/2 reactime 1/2 reactine 1/2 reactime 1/2 reactim	non-detachable supply cord		
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	appliance coupler		
21 10 10 10 10 10 10 10 10 10 10 10 10 10	🖾 direct plug-in		
118 16 105 108 15 108 15 15 108 15 108 16 15 108 15 105 108 15 108 15 108 15 108 15 108 15 108 15 108 15 108 15	mating connector		
25 time 175 'realing	pluggable equipment type B -		
reading 15 reading	non-detachable supply cord		
1. Le line 1. les time 1. les line 1. les	appliance coupler		
211 and 215 ear into 15 earlier 21 and 200 fear and 200 and 200 Into 16 fear into 16 fear and 200 fear and 200 Into 100 fear and 200 fear and 20	permanent connection		
	mating connector dother:		
Considered current rating of protective device as part of building or equipment installation	<u>0.4</u> A;		
12 resting	Installation location: 🛛 building; 🗌 equipment		
Equipment mobility	☐ movable     ☐ hand-held     ☐ transportable       ☐ stationary     ☐ for building-in     ⊠ direct plug-		
1, 1997 12 12 12 12 12 12 12 12 12 12 12 12 12	in 🗌 rack-mounting 🔲 wall-mounted		
Over voltage category (OVC):			
5 (25) 5(1) (25) 7(2) (26) (26) (26) (26) (26) (26) (26) (	OVC IV Other:		
Class of equipment:	Class I		
Access location:	restricted access location		
Pollution degree (PD):			
Manufacturer's specified maxium operating ambient :	25 °C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
IP protection class			
Power Systems:	TN		
Altitude during operation (m)	🖾 2000 m or less 🔲 m		
Altitude of test laboratory (m)	🖾 2000 m or less 🔲 m		
22. 27. UN TT. UN TT. TE. IDE IT. VE. IDE IT. IE. ID. 11, 18.	ע "מן" שר ברף "שאי 30 און "שני שני בני "שני אר או איני איני איי איי איי איי איי איי איי א		

Possible test case verdicts:	10 res in 10 res
- test case does not apply to the test object	NAS resting 15 resting
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail) To rest into the rest
Testing	the set of an est of an est an est an est of
Date of receipt of test item:	Jan. 04, 2023
Date (s) of performance of tests	Jan. 04, 2023 to Jan. 10, 2023
GENERAL REMARKS:	The state the the second second is the second secon
"(See Enclosure #)" refers to additional information "(See appended table)" refers to a table appended to Throughout this report a comma / point is us The related applicable OSM decisions have been cons Determination of the test result includes consideration methods.	o the report. sed as the decimal separator.
Manufacturer's Declaration per sub-clause 4.2.5 of I	
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 the	ne General product information section.
Name and address of factory (ies):	Same as manufacturer
GENERAL PRODUCT INFORMATION:	$\frac{1}{10\mu} \frac{1}{10^{5}} \frac{1}{4s_{s}} \frac{1}{2m} \frac{1}{10^{5}} \frac{1}{4s_{s}} \frac{1}{40\mu} \frac{1}{10^{5}} \frac{1}{4s_{s}} \frac{1}{40\mu} \frac{1}{10^{5}} \frac{1}{4s_{s}} \frac{1}{40\mu} \frac{1}{10^{5}} \frac{1}{1$
Product Description –	to reactine the reactine to reactine the reactine to reactine the reactine to
$ \underbrace{N/A}_{1,5}^{1,6} \underbrace{15}_{1,5}^{1,6} \underbrace{rest}_{1,6}^{1,6} \underbrace{15}_{1,6}^{1,6} \underbrace{rest}_{1,6}^{1,6} \underbrace{rest}_{$	The resume the resuments resume the resuments resume the resuments rest resuments resuments rest resuments
Model Differences –	est the file to tool the file to tool the file to tool the file file to tool the file to tool the file to tool the file to tool the file tool tool to tool the file to tool the file tool tool tool tool tool tool tool to
$ \begin{array}{c} M_{1} & 1 \\ N_{1} & 1 $	tes in 17 tes in 10 to tes in 15 tes
Additional application considerations – (Considerations – N/A	ations used to test a component or sub-assembly) –



ENERGY SOURCE IDENTIFICATION AND CLASSIFICAT	ION TABLE:
(Note 1: Identify the following six (6) energy source forms to (Note 2: The identified classification e.g., ES2, TS1, should on the body or its ability to ignite a combustible material. A worse case classification e.g. PS3, ES3.	be with respect to its ability to cause pain or injury
Electrically-caused injury (Clause 5):	
(Note: Identify type of source, list sub-assembly or circuit d classification) Example: +5 V dc input	esignation and corresponding energy source ES1
Source of electrical energy	Corresponding classification (ES)
Input terminal	ES3
Internal circuit	ES3 nd 15 rest
Output terminal	ES1 strate to the strate to th
Electrically-caused fire (Clause 6):	
(Note: List sub-assembly or circuit designation and corresp Example: Battery pack (maximum 85 watts):	oonding energy source classification) PS2
Source of power or PIS	Corresponding classification (PS)
	PS3
Internal circuit	PS3
Output terminal	PS1
(Note: Specify hazardous chemicals, whether produces oz part of the component evaluation.) Example: Liquid in filled component	one or other chemical construction not addressed as Glycol
Source of hazardous substances	Corresponding chemical
N/A 1010 15 resting 15	N/A 108 15 rest 10
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit	corresponding MS classification based on Table 35.) MS2
Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and Comers	MS1. 100 175 (est 100 15 (est
Equipment mass (<7kg)	MS1 (est 10% 175 rest 10\% 175 r
Thermal burn injury (Clause 9)	
(Note: Identify the surface or support, and corresponding en location, operating temperature and contact time in Table 38 Example: Hand-held scanner – thermoplastic enclosure	
Source of thermal energy	Corresponding classification (TS)
External enclosure	TS1 5 reating 15 reating
Radiation (Clause 10)	
(Note: List the types of radiation present in the product and t Example: DVD – Class 1 Laser Product	he corresponding energy source classification.) RS1
Type of radiation	Corresponding classification (RS)
N/A 15 resting 15	



26 5.2	ENERGY SOURCE DIAGRAM
5	Indicate which energy sources are included in the energy source diagram. Insert diagram below
Ì	24 21 and 25 12
100	🖾 ES 🖾 PS 🖾 MS 🖾 TS 🗆 RS
0.0	
0	1, 118 112 1est 11
5	



OVERVIEW OF EMPLOYED SAFE	GUARDS			
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure
Ordinary; Instructed	ES3: Input terminal	N/A	N/A	Enclosure
Ordinary; Instructed; Skilled	ES1: Output terminal	N/A	N/A	N/A
Ordinary; Instructed	ES3: Internal circuits	lesting Nis rest	118 115 100 TE SING 115 100	ting to Restant
6.1	Electrically-caused fire			
Material part	Energy Source		Safeguards	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced
All combustible materials within equipment	PS3: All internal circuits	restine No restine	118 115 128 Sing 115 128 118 115 128 Sing 115 128 118 115 128 Sing 115 128 118 115 128 Sing 118 15 18	N/A
Enclosure	PS1: Output terminals	N/A	N/A	N/A
7.1	Injury caused by hazardous	substances		
Body Part	Energy Source	Safeguards		
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced
N/A ine 15 resting 15 resting 15 resting	NA the 15 restine 15 restine	~ N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure
Ordinary; Instructed; Skilled	MS1: sharp edges and corners	N/A	N/A	N/A
9.1	Thermal Burn	1000 a Vie - KORYCLION	<u> </u>	<u> </u>
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced
Ordinary person	TS1: External enclosure	N/A	N/A	N/A
10.1	Radiation			
Body Part	Energy Source Safeguards			
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced
N/A 1118 15 12 10 10 15 12 10 10 15 12 10 10 10 10 10 10 10 10 10 10 10 10 10	N/A estimation resting 115 resting	N/A	N/A	N/A



Clause	Requirement	Remark	Result
15 (rest ine 1) 4	GENERAL REQUIREMENTS	string 115 Testing 115 Testing 115 Testing 15	S Test Ins
4.1.1	Acceptance of materials, components and subassemblies	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	15 (e <sup>2</sup> , 1) 15 (e <sup>2</sup> , 1) 15 (e <sup>2</sup> ) 15 (e <sup>2</sup> ) 15 (e <sup>2</sup> ) 15 (e <sup>2</sup> ) 15 (e <sup>2</sup> ) 16 (e <sup>2</sup> ) 15 (e <sup>2</sup> ) 16 (e <sup>2</sup> ) 16 (e <sup>2</sup> ) 17 (e <sup>2</sup> ) 16 (e <sup>2</sup> ) 17 (e
4.1.2	Use of components	See table 4.1.2	105 175 Pre-
4.1.3	Equipment design and construction	No accessible part which could cause injury	stins 225
4.1.15	Markings and instructions	(See Annex F)	is rest Pi
4.4.4	Safeguard robustness	See below	A LISS Pe
4.4.4.2	Steady force tests	(See Annex T.4)	TUR TE
4.4.4.3	Drop tests	(See Annex T.7)	Ceer ins Pr
4.4.4.4	Impact tests	(See Annex T.6)	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests:	Testing TD testing TD testing TD testing Testing TD testing TD testing TD testing Testing TD testing TD testing TD testing TS testing TD testi	215 128 E 215 789 118 175 789
4.4.4.6	Glass Impact tests	15 resting	N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	Test in R 1
4.4.4.8	Air comprising a safeguard:	(See Annex T)	The re <b>P</b>
4.4.4.9	Accessibility and safeguard effectiveness	After test, all safeguard remains effective, No damaged	A LIS PS
4.5	Explosion	No explosion	Losi ins Pla
4.6	Fixing of conductors	2018 11 15 75 16 10 15 75 16 15 17 16 10 16 17 16 10 10 10 10 10 10 10 10 10 10 10 10 10	To Test Ris
4.6.1	Fix conductors not to defeat a safeguard	All conductive parts are fixed on PCB by at least two soldering points; The primary and secondary lead wire were soldered to PCB and fixed by glue.	115 (201 115 (201 115 (201 116 (205 (201 116 (205 (201 116 (205 (201 116 (205 (201 105 (201 1
4.6.2	10 N force test applied to	Applied 10 N force, no loosen	the Res
4.7	Equipment for direct insertion into mains socket - outlets	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ting TP sting TP sting TS sting TS
4.7.2	Mains plug part complies with the relevant standard	See below	Testing Festing Stresting
4.7.3	Torque (Nm)	<0.25Nm	THE LIFE PO
4.8	Products containing coin/button cell batteries	No lithium coin/button cell battery	N/A
4.8.2	Instructional safeguard	1 108 115 125-108 115 125-108 115 125-108 115 125-108 115 108 115 125-108 115 125-108 115 125-108 115 125-108 115	N/A
4.8.3	Battery Compartment Construction	tes the the resting the resting the resting	N/A
sting IP Test	Means to reduce the possibility of children removing the battery:	15 100 115 100	—



EN IEC 62368-1				
Clause	Requirement	Remark	Result	
4.8.4	Battery Compartment Mechanical Tests	(See Table 4.8.4)	N/A	
4.8.5	Battery Accessibility	C resting 115 resting 115 resting 1	N/A	
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	N/A	

5	ELECTRICALLY-CAUSED INJURY	6	Test Pro
5.2.1	Electrical energy source classifications	(See appended table 5.2)	P. P.
5.2.2	ES1, ES2 and ES3 limits	8 115 resting 115	Ins LTP
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	SCION PS
5.2.2.3	Capacitance limits	(See appended table 5.2)	Testine 1
5.2.2.4	Single pulse limits	No such single pulses with the EUT	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses with the EUT	N/A
5.2.2.6	Ringing signals:	No such ringing signals with the EUT	N/A
5.2.2.7	Audio signals	No such audio signals with the EUT	N/A
5.3	Protection against electrical energy sources	a 15 restine 15 restine 15 restine 15 restine 15 restine	Ing The be
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See below.	esting 15 esting 15 resting 7 resting 1
5.3.2.1	Accessibility to electrical energy sources and safeguards	$T_{1}^{(1)} = T_{1}^{(1)} = T_{2}^{(1)} = $	
5.3.2.2	Contact requirements	15 rest into 15 rest into 15 rest into 15 rest into 15 rest	"P1"P
to rest ing Dis 5 Test ing Dis 15 Test	a) Test with test probe from Annex V	The probe could not insert into the equipment as there is no ventilation on the product.	reating 175
ing Lip tearing ting Lip tearing oring Lip tear earing Lip te tearing Lip to tearing Lip to	b) Electric strength test potential (V)	The probe could not insert into the equipment as there is no ventilation on the product.	N/A
TS testing the TS testing the TS testing t TS testing TS testing TS testing	c) Air gap (mm):	The probe could not insert into the equipment as there is no ventilation on the product.	N/A
5.3.2.4	Terminals for connecting stripped wire	No such terminals intended to be used by ordinary person.	N/A
5.4	Insulation materials and requirements	the ID rest the ID	stins Pr
5.4.1.2	Properties of insulating material	The choice and application have taken into account as specified in this Clause 5 and Annex T except natural rubber, hygroscopic materials or asbestos are not used as insulation.	
5.4.1.3	Humidity conditioning	(See sub-clause 5.4.8)	Test Rs
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	
5.4.1.5	Pollution degree	Pollution degree 2	nation (170 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 180 - 1 



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Clause	Requirement	Remark	Result
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2	N/A
5.4.1.5.3	Thermal cycling	Pollution degree 2	N/A
5.4.1.6	Insulation in transformers with varying dimensions	The reacting the resting the resting the resting the rest	N/A
5.4.1.7	Insulation in circuits generating starting pulses	108 115 (25) 108 115 (25) 108 115 (25) 108 115 (25) 108 115 (25) 108 115 (25) 108 115 (25) 108 115	Testing P
5.4.1.8	Determination of working voltage	resting 15 resting 15 resting 15 resting 15 resting	Test Pin
5.4.1.9	Insulating surfaces	Considered.	P. P.
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	See below	the life re the life re scine 1P
5.4.1.10.2	Vicat softening temperature	(See appended table 5.4.1.10.2)	N/A
5.4.1.10.3	Ball pressure:	(See appended table 5.4.1.10.3)	The reput
5.4.2	Clearances	15 resting	nt ITS Pre
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	Scins PS
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.3)	Testing L Test Pro
TUR TO LEATUR	a) a.c. mains transient voltage	2.5kV	
is the NS les	b) d.c. mains transient voltage	15 rest in	
5 resting 15	c) external circuit transient voltage	The the rest in the resting the resting the second and the second s	_
115 Testing 1	d) transient voltage determined by measurement	Contract of the second	1
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	(See appended table 5.4.2.4)	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	and 175 rest ind 175 rest ind 175 rest ind 175 the 175 rest ind 175 rest ind 175 rest ind 175 with 175 rest ind 175 rest ind 175 rest ind 175 struct 175 rest ind 175 rest ind 175 the 175 rest ind 175 rest ind 175 rest ind 175 rest ind 175 the 175 rest ind 175	N/A
5.4.3	Creepage distances	(See appended table 5.4.3)	The Level
5.4.3.1	General	15 resting 15 resting 15 resting 15 resting 15 rest	UR TR P.C.
5.4.3.3	Material Group	HID reaction to reaction to reaction to reaction to re-	_
5.4.4	Solid insulation	the tri testine to testine to testine to testine to	Test Ine L
5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.4.2)	115 TePIN
5.4.4.3	Insulation compound forming solid insulation	To reading the resting to reading the reading to reading the reading to reading the readin	Res Lis Per
5.4.4.4	Solid insulation in semiconductor devices	15 resting 15 resting 15 resting 15 resting 15 re	sting P
5.4.4.5	Cemented joints	ting 15 resting 15 resting 15 resting 15 resting 15	169, 146 1
5.4.4.6	Thin sheet material	resting 125 resting 125 resting 125 resting 125 resting 1	In the Part
5.4.4.6.1	General requirements	5 Testine 25 Testine 25 Testine 25 Testine 25 Testine	NE TTS Pres
5.4.4.6.2	Separable thin sheet material	1 15 100 100 10 10 100 100 10 100 100 10	at ing IP
To resting 215 15 resting 215 15 resting 16 15 resting 10 15 resting 10 15 resting 15 resting 15 resting 15 resting 15 resting	Number of layers (pcs)	Three layers of insulation tape used as reinforced insulation, any combination of two layers pass the electric strength test.	Testing In Testing In Stesting In Stesting IN Testing IN Testing
5.4.4.6.3	Non-separable thin sheet material	The treating the the treating the treating the the treating the treati	N/A

ine tre

808, Building 1, 7th Industrial Zone, Yulv Community, Yutang Street, Guangming District, Shenzhen, Guangdong, China Web: www.zts-test.com Tel:400-8788-298 Tel:0755-23245950 Email: zts@zts-test.com

Test



tine 215 Test	EN IEC 62368-1	The reacting the restring the restring the to	SCATTAN LIS TEST
Clause	Requirement 15 reaction 15 reaction 15 reaction 15 reactions 15 reacti	Remark	Result
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	(See appended Table 5.4.9)	N/A
5.4.4.6.5	Mandrel test	to resting the resting the resting the re-	N/A
5.4.4.7	Solid i <sup>nsulation</sup> in wound components	115 restine 115 restine 115 restine 115	Test ins LIP
5.4.4.9	Solid insulation at frequencies >30 kHz	(See appended Table 5.4.4.9)	N/A
5.4.5	Antenna terminal insulation	resting US resting US resting US resting US resting	N/A
5.4.5.1	General Control of the second se	5 resting 15 resting 15 resting 15 resting 15 res	N/A
5.4.5.2	Voltage surge test	15 resting 15 resting 15 resting 15	N/A
To reaction 200	Insulation resistance (MΩ):	The Lip Legrine Lip Legrine Lip Legrine L	-
5.4.6	Insulation of internal wire as part of supplementary safeguard	(See appended table 5.4.4.2)	N/A
5.4.7	Tests for semiconductor components and for cemented joints	15 reactions 15 re	N/A
5.4.8	Humidity conditioning	the 115 restine 115 restine 115 restine	15 test ins P. 15
175 resting	Relative humidity (%):	93 15 Test ine its rest ine its rest ine its rest	10R 1
the The Lestin	Temperature (°C)	28 - 100 15 Testing 15	scing
resting 115 Tes	Duration (h):	48 resting 15 resting 15 resting 15 resting 15	105h
5.4.9	Electric strength test	(See appended table 5.4.9)	TS Lestine PTS
5.4.9.1	Test procedure for a solid insulation type test	resting the list lesting the tresting the list lesting	a LTS Test Pa
5.4.9.2	Test procedure for routine tests	testing the lesting the lesting the lesting the lest	N/A
5.4.10	Protection against transient voltages between external circuit	175 Terestina Dis Terestina dis Terestina Dis 175 Terestina Dis Terestina di Dis Terestina Dis 175 Terestina Dis Terestina Dis Terestina Dis 176 Terestina Dis Terestina dis Terestina 176 Terestina dis Terestina di Seconda di Seconda di Seconda di Seconda 176 Terestina di Seconda d	N/A
5.4.10.1	Parts and circuits separated from external circuits	(See appended table 5.4.9)	N/A
5.4.10.2	Test methods	resting 15 resting 15 resting 15 resting 15 rest	N/A
5.4.10.2.1	General	15 resting 115 resting 25 resting 15 resting 15 re	N/A
5.4.10.2.2	Impulse test:	(See appended table 5.4.9)	N/A
5.4.10.2.3	Steady-state test	(See appended table 5.4.9)	N/A
5.4.11	Insulation between external circuits and earthed circuitry	(See appended table 5.4.9)	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	10 reactions 10 reactions 10 reactions 10 15 reactions 10 reactions 10 reactions 10 16 reactions 10 reactions 10 reactions 10 16 reactions 10 reactions 10 reactions 10 16 reactions 10 reactions 10 reactions 10 10 reactions 10 reactions	N/A
5.4.11.2	Requirements	tine 15 restine 15 restine 15 restine	N/A
une 215 Testine	Rated operating voltage U <sub>op</sub> (V)	Testing 13 Testing 15	ing 1
Stine Ins Test	Nominal voltage U <sub>peak</sub> (V)	5 restine 15 restine 15 restine 15 restine 15 re	54 LIN 65 LIN
Testine 175 To	Max increase due to variation U <sub>sp</sub> :	15 resting 15 resting 15 resting 15 resting 15	res
The Testing US	Max increase due to ageing $\Delta U_{sa}$	ting 115 rest ing 115 rest ing 115 rest ing	175
ns TIS Testing	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$	resting 15 resting 15 resting 15 resting 15 rest	1716 I
5.5	Components as safeguards	15 Testing 15 Testing 15 Testing 15 Testing 15 Te	esting The Lis Test
5.5.1	General	The resting The resting the resting the	Tes Line 1 P



Clause	Requirement	Remark	Result
		100 100 100 100 100 100 100 100 100 100	rest ins ins
5.5.2	Capacitors and RC units	er ins 115 restins 115 restins 115 restins 115 restins 115 restins 115	N/A
5.5.2.1	General requirement	tes the US tes the US tes the US tes the US tes the	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	(See appended table 5.5.2.2)	N/A
5.5.3	Transformers	the tis restine tis restine to restine to	Testing P.15
5.5.4	Optocouplers	(See sub-clause 5.4 or Annex G.12)	Test Pine
5.5.5	Relays	(See Annex G.2)	N/A
5.5.6	Resistors	(See Annex G.10)	N/A
5.5.7	SPD's	(See Annex G.8)	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	resting 12 cesting 12	N/A
5.5.7.2	Use of an SPD between mains and protective earth	The still by the second of the second	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable	(See Annex G.10.3)	N/A
5.6	Protective conductor	resting to resting 15 resting 15 resting 15 resting	N/A
5.6.2	Requirement for protective conductors	Testing Its resting Its resting Its resting Its resting	N/A
5.6.2.1	General requirements	175 realized to realize the realized to realize the realized reali	N/A
5.6.2.2	Colour of insulation	The No real in the real the No Leader in the second the No Leader in the the real the the second the the second the the second second the second s	N/A
5.6.3	Requirement for protective earthing conductors	esting 15 resting 15 resting 15 resting 15 resting 15	N/A
une ITS Test	Protective earthing conductor size (mm <sup>2</sup> )	resting 115 resting 115 resting 115 resting	
5.6.4	Requirement for protective bonding conductors	15 realing 15 realing 15 realing 15 realing 15 real	N/A
5.6.4.1	Protective bonding conductors	no 15 resting 15 resting 15 resting 15 resting 25 r	N/A
215 Testine	Protective bonding conductor size (mm <sup>2</sup> ):	and the TD resting TD resting TD resting TD resting T	
Ins The Test	Protective current rating (A)	resting 25 resting 25 resting 75 resting 75 resting	
5.6.4.3	Current limiting and overcurrent protective devices	15 reading	N/A
5.6.5	Terminals for protective conductors	the US restine US restine US restine US restine US	N/A
5.6.5.1	Requirement	rest the US rest the US rest the US rest the US rest the interval and the US rest the US	N/A
clas (15 Test	Conductor size (mm <sup>2</sup> ), nominal thread diameter (mm)	5 realized to realize the statement of realized to realize the statement of the statement o	N/A
5.6.5.2	Corrosion	ing the test ing the test ing the test ing the	N/A
5.6.6	Resistance of the protective system	the the treating the treating the resting the resting the	N/A
5.6.6.1	Requirements	Testing ITS resting ITS resting ITS resting	N/A
5.6.6.2	Test Method Resistance (Ω):	TS resting 15 resting 15 resting 15 resting 15 rest	N/A
5.6.7	Reliable earthing	ing 115 resting 125 resting 125 resting 15	N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A
5.7.2	Measuring devices and networks	Figure 4 of IEC 60990 was used in determining of the limit of ES1.	N/A
5.7.2.1	Measurement of touch current:	(See appended table 5.7.4)	N/A



cline 115 Ten	EN IEC 62368-1	The reaction with the strong the reaction of the	estime 115 res
Clause	Requirement	Remark	Result
5.7.2.2	Measurement of prospective touch voltage	2 the 15 test ine	N/A
5.7.3	Equipment set-up, supply connections and earth connections	contraction (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	N/A
resting 115 resting 115 S resting 115	System of interconnected equipment (separate connections/single connection):	The restine the restine the restine the restine to the restine to restine the restine to restine the restine to restine the restine the restine to	17 Ter
LIS Testing LIS Testing IS Testing IS Testing INS LIS Testi	Multiple connections to mains (one connection at a time/simultaneous connections)	testing 12 testing 12 testing 12 testing 15 testing	175 18 17 18 17 18 19
5.7.4	Earthed conductive accessible parts	(See appended Table 5.7.4)	N/A
5.7.5	Protective conductor current	15 763 108 713 763 108 175 763 108 175 763 108 175 18 175 763 108 175 763 108 175 763 108 175 763 108 175	N/A
	Supply Voltage (V)	ting The resting The resting The resting	· -
	Measured current (mA):	cesting 115 resting 115 resting 115 resting 115 rest	108 T
tine The Tes	Instructional Safeguard	(See F.4 and F.5)	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	155 Teoring 155 Teoring 155 Teoring 155 Teoring 15 155 Teoring 155 Teoring 155 Teoring 155 Teoring 15 168 155 Teoring 155 Teoring 155 Teoring 155 Teoring 15 168 155 Teoring 155 Teoring 155 Teoring 155 Teoring 155	N/A
5.7.6.1	Touch current from coaxial cables	esting 12 resting 15 resting 15 resting 15 resting	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	teating 15 resting 15	N/A
5.7.7	Summation of touch currents from external circuits	The tree the tree to the tree	N/A
LTS Test ins 175 Test ins 18 LTS Test in 18 LTS Test in	a) Equipment with earthed external circuits Measured current (mA):	ting 10 testing 10 testing 10 testing 10 testing testing 15 testing 15 testing 15 testing 15 testing 15 testing testing 15 testing 15 testing 15 testing 15 testing 15 testing testing 15 testing 15 testing 15 testing 15 testing 15 testing testing 15 testing 15 testing 15 testing 15 testing 15 testing testing 15 testing 15 testing 15 testing 15 testing 15 testing testing 15 testing 15 t	N/A
etine 175 re	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	15 100 100 100 100 100 100 100 100 100 1	N/A

6	ELECTRICALLY- CAUSED FIRE           Classification of power sources (PS) and potential ignition sources (PIS)		S Test Pine 115
6.2			The repaire the
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits.	the LTS Contract the LTS Contract the LTS Contract the LTS Contract to the LTS Contract
6.2.2.1	General	15 restine 15 restine 15 restine 15 restine 15 restin	Restine L
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	ting DB Testin
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	resting 15 rest resting 15 rest resting 15 rest resting 15 r
6.2.2.4	PS1	(See appended table 6.2.2)	15 Tee ins 25
6.2.2.5	PS2	(See appended table 6.2.2)	N/A
6.2.2.6	PS3	(See appended table 6.2.2)	stink P. Test
6.2.3	Classification of potential ignition sources	to the 15 result of 15 result of 15 result of 15	Testing 15 Te
6.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	To Test Pine Dis
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	une LTS Prest ine
6.3	Safeguards against fire under normal operating and abnormal operating conditions		sting 1P Test



cline 215 Test	EN IEC 62368-1	The reacting the r	Tue The Least
Clause	Requirement	Remark	Result
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	15 100 100 100 100 100 100 100 100 100 1
6.3.1 (b)	Combustible materials outside fire enclosure	No such materials used.	N/A
6.4 estime 10	Safeguards against fire under single fault conditions	the 15 restine 15 restine 15 restine 15	Testine PITS
6.4.1	Safeguard Method	Approved fire enclosure used	15 Test Pres
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	rest into 115 rest into 175 rest into 175 rest 15 rest into 175 rest into 175 rest into 175 rest 15 rest into 175 rest into 175 rest into 175 rest 175 rest into 175 rest into 175 rest into 175 rest	the LTS Test
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	the trip resting the resting to the the trip resting the trip ing trip resting the trip resting the resting the trip the trip resting the trip resting the trip resting the trip the trip resting the trip resting the trip resting to the trip the trip resting the trip resting to the trip resting the trip the trip resting the trip resting to the trip resting to the trip the trip resting the trip resting to the trip resting to the trip the trip resting to the trip resting to the trip resting to the trip the trip resting to the trip resting to th	resting 115 1 resting P5
6.4.3.1	General	isting 15 resting 15 resting 15 resting 15 resting	15 Test Rus
6.4.3.2	Supplementary Safeguards	By equipped plastic fire enclosure.	115 P.1
resting 215 restin	Special conditions if conductors on printed boards are opened or peeled	No such case happened.	N/A
6.4.3.3	Single Fault Conditions	(See appended table 6.4.3)	Test op L
ing Tip Les tug	Special conditions for temperature limited by fuse	Testing US Testing US Testing US Testing US Testing	N/A
6.4.4	Control of fire spread in PS1 circuits	15 restine 15 restine 15 restine 15 res	ins I's Pet
6.4.5	Control of fire spread in PS2 circuits	18 12 resting 12 resting 12 resting 15 resting 12 r	N/A
6.4.5.2	Supplementary safeguards	Cine 115 restine 115 restine 115 restine 115 restine 115	N/A
6.4.6	Control of fire spread in PS3 circuit	resting 15 resting 15 resting 15 resting 15 resting	LTS TESPLIN
6.4.7	Separation of combustible materials from a PIS	5 resting 15 resting 15 resting 15 resting 15 rest	N/A
6.4.7.1	General	(See tables 6.2.3.1 and 6.2.3.2)	N/A
6.4.7.2	Separation by distance	ting the testing in the testing in testing the testing the	N/A
6.4.7.3	Separation by a fire barrier	resting 15 resting 15 resting 15 resting 15 resting	N/A
6.4.8	Fire enclosures and fire barriers	To rest in 115 rest in 115 rest in 115 rest	Ne The Le Per
6.4.8.1	Fire enclosure and fire barrier material properties	15 restine	5 1 10 17 10 10
6.4.8.2.1	Requirements for a fire barrier	ing the resting the testing the testing the resting the	N/A
6.4.8.2.2	Requirements for a fire enclosure	estine 15 (estine 15 restine 15 restine 15 restine)	15 Test Ra
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	reating 15	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No opening	N/A
6.4.8.3.2	Fire barrier dimensions	ating 15 resting 15 resting 15 resting 15 resting 15	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	No opening	N/A
Lesting 175 Tes	Needle Flame test	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	the LS restine LS rest	N/A
ne 215 Testine ins 715 Testine stine 115 Testine ine 115 Testi	Flammability tests for the bottom of a fire enclosure	resting 15 resting 15 resting 15 resting 15 resting resting 15 resting 15 resting 15 resting 15 resting 5 resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 resting	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	L'E treating LTS testing LTS testing LTS testing LTS to the LTS testing LTS te	N/A



stine The Les	EN IEC 62368-	The reaction the rescine the reaction	115 Testine 115 Testi
Clause	Requirement	Remark	Result
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	V-0 enclosure used	
6.5	Internal and external wiring	The resting the resting the resting	N/A
6.5.1	Requirements	in 115 resting 115 resting 115 rest	N/A
6.5.2	Cross-sectional area (mm <sup>2</sup> ):	e ting 115 resting 115 resting 115 re	esting 175
6.5.3	Requirements for interconnection to building wiring	(See Annex Q.)	N/A
6.6	Safeguards against fire due to connection to additional equipment	(See Annex Q.)	15 Test 116 15 Prest
Testing IIS Testing IIS TS Testing I	External port limited to PS2 or complies with Clause Q.1	Control to the state of the sta	think 175 to estima 175 to stink 175 to estima 175 to the 175 to stink 175

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		N/A
7.2	Reduction of exposure to hazardous substances	No hazardous chemicals within the equipment.	N/A
7.3	Ozone exposure	15 125 108 15 125 108 15 125 108 15 125 108 15 125 108 15	N/A
7.4	Use of personal safeguards (PPE)	5 restine 115 restine 115 restine 115 restine	N/A
resting The	Personal safeguards and instructions	The rest the The rest the The rest the The rest	
7.5	Use of instructional safeguards and instructions	Ing 12 Les ling 12 Les ling 12 Lesting 12 Lesting 12	N/A
The lesting	Instructional safeguard (ISO 7010)	the transmission of the second statement of the second	
7.6	Batteries	(See Annex M)	N/A

8	MECHANICALLY-CAUSED INJURY		sting 1Ps
8.1	General	See the following details.	test in Pt
8.2	Mechanical energy source classifications	Sharp edges and corners, classified as MS1 Equipment maximum mass < 7 kg, classified as MS1	5 Tes Pint 15 Tes Pint 15 Testi 15 Test
8.3	Safeguards against mechanical energy sources	10 15 res 108 15 res 110 15 res 108 15 res 108 15 res 108 15 res	N/A
8.4	Safeguards against parts with sharp edges and corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	Testing In Testing 5 Testing 15 Testing 15 Testing
8.4.1	Safeguards	2 10 10 10 10 10 10 10 10 10 10 10 10 10	115 Per
8.5	Safeguards against moving parts	MS1 moving parts used	sting P
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
8.5.2	Instructional Safeguard	15 resting 16 resting 15 resting 16 resting 15 resting 15 resting 15 resting 16 resting 15 resting 16 rest 16 rest 16 resting 16 resting	
8.5.4	Special categories of equipment comprising moving parts	al 15 realing 15 reali	N/A
8.5.4.1	Large data storage equipment	restine 15 restine 15 restine 15 restine 15 restine 15	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	Tresting To resting To resting to resting to resting to resting to resting to resting to resting to resting to resting to resting to resting to resting to resting	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	(See Annex F.4 and Annex K)	N/A



sting IN Test	EN IEC 62368	The reaction the reaction the reaction the reaction the	rescine 115 rest
Clause	Requirement	Remark	Result
8.5.4.2.2	Instructional safeguards against moving parts	es ine 15 restine 15 restine 15 restine 15 restine	N/A
ne In Testin	Instructional Safeguard:	17 Testine Its testine Its testine Its Test	cine
8.5.4.2.3	Disconnection from the supply	up The service The Lever turn The Lever turn The	N/A
8.5.4.2.4	Probe type and force (N):	ship It's resting It's resting It's resting to	N/A
8.5.5	High Pressure Lamps	Testine Instreament in the restine in the restine	N/A
8.5.5.1	Energy Source Classification	To resting the resting the resting the resting the rest	N/A
8.5.5.2	High Pressure Lamp Explosion Test:	(See appended table 8.5.5.2)	N/A
8.6	Stability	sing 12 resume 15 resume 10 resume	N/A
8.6.1	Product classification	terting 115 testing 115 testing 115 testing 115 testing	N/A
ing 115 Testing	Instructional Safeguard:	15 resting 115 resting 115 resting 115 resting 115 rest	
8.6.2	Static stability	n 115 resting 115 resting 115 resting 115 resting 115	N/A
8.6.2.2	Static stability test	sum 15 restine 15 restine 15 restine 15 restine 1	N/A
US Test ing 1 115 Test ing 1	Applied Force	te tine 12 rearing 15 rearing 15 rearing 15 rearing	177
8.6.2.3	Downward Force Test	The resting the resting the resting the resting the rest the resting the resting the resting the resting the res	N/A
8.6.3	Relocation stability test	at 15 resting 15 resting 15 resting 15 resting 15	N/A
1854 102 815 115	Unit configuration during 10° tilt	We The Lesting The Lesting The Lesting The Lesting the	5 TR
8.6.4	Glass slide test	20 000 200 200 200 200 200 200 200 200	N/A
8.6.5	Horizontal force test (Applied Force)	5 (25) 118 115 (25) 128 115 (25) 118 115 (25)	N/A
Stime The lest	Position of feet or movable parts		rest
8.7	Equipment mounted to wall or ceiling	10 15 resting 15 resting 15 resting 15 resting 15	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	12 - 1 - 12 - 12 - 12 - 12 - 12 - 12 -	N/A
8.7.2	Direction and applied force	10 102 103 108 113 102 108 113 102 103 108 115 102 113 103 108 115 103 108 115 108 115 108 115 10 15 15 105 108 115 108 105 108 115 108 115 10	N/A
8.8	Handles strength	no 12 restine 12 restine 15 restine 15 restine 15	N/A
8.8.1	Classification	25 118 115 105 105 115 125 105 118 115 105 115 105 115 105 115 105 115 105 115 105 10	N/A
8.8.2	Applied Force	Testing US resting US resting US resting US resting	N/A
8.9	Wheels or casters attachment requirements	15 resting 15 resting 15 resting 15 resting 15 res	N/A
8.9.1	Classification	15 TE TESLING ITS TESLING ITS TESLING ITS TESLING ITS	N/A
8.9.2	Applied force	in 15 resting 15 resting 15 resting 15 resting 1	
8.10	Carts, stands and similar carriers	tostine 15 restine 15 restine 15 restine 15 restine	N/A
8.10.1	General	To resting 15 resting 15 resting 15 resting 15 res	N/A
8.10.2	Marking and instructions	no 115 testine 115 testine 115 testine 115 testine 115	N/A
Testine 275	Instructional Safeguard	al 14 12 les 14 12 les 14 12 les 14 12 les 14 1 14 12 les 14 15 les 14 15 les 14 15 les 14 1 14 12 les 14 15 15 15 15 15 15 15 15 15 15 15 15 15	15 T
8.10.3	Cart, stand or carrier loading test and compliance	testine 115 restine 115 restine 115 restine 115 restine	N/A
Ine 215 Testine	Applied force	15 rest 100 115 rest 100 115 rest 100 115 res 15 rest 100 115 rest 100 115 rest 100 115 res 15 rest 100 115 res 100 115 rest 100 115 res	seine
8.10.4	Cart, stand or carrier impact test	10 10 100 100 10 10 10 10 10 10 10 10 10	N/A
8.10.5	Mechanical stability	the US restine US restine US restine The restine IT	N/A



estine ITS Test	EN IEC 623	368-1 15 (15 (15 (15 (15 (15 (15 (15 (15 (15	5 resting 115 resting 115 resting
Clause	Requirement	Remark	Result
The and say of	12 402 12 12 12 12 12 12 12 12 12 12 12 12 12	5 465 TW US 452 TW US 452 1	DE US LES UP IN LES UP ILS LES

LIS Testing	Applied horizontal force (N)	estime 11- 15 restine 15 restine 15 restine 15 restine 1 lestine 15 restine 15 restine 15 restine 15 restine 17	—
8.10.6	Thermoplastic temperature stability (°C):	Les the US Les the US Les the US Les the US Les the	N/A
8.11	Mounting means for rack mounted equipment	12 lest ing his lest ing his lest ing his lest	N/A
8.11.1	General	18 15 10-118 15	N/A
8.11.2	Product Classification	the the testine the testine to testine the testine the	N/A
8.11.3	Mechanical strength test, variable N	testing 15 testing 15 testing 15 testing	N/A
8.11.4	Mechanical strength test 250N, including end stops	12 rest ine 15 rest ine 75 rest ine 75 rest ine 75 rest	N/A
8.12	Telescoping or rod antennas	(See Annex T)	N/A
TS Test Ing	Button/Ball diameter (mm)	the state of the sector of the	

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

10	RADIATION		N/A
10.2	Radiation energy source classification	resting 115 resting 115 resting 115 resting	N/A
10.2.1	General classification	15 105 1118 115 105 108 115 108 115 100 115 105 105 105 105 105 105 105	N/A
10.3	Protection against laser radiation	1 15 Testing 15 Testing 15 Testing 15 Testing 15 Te	N/A
15 Testing It	Laser radiation that exists equipment:	think 115 resting 115 resting 115 resting 115 resting 115	
108 115 1895 108	Normal, abnormal, single-fault	(See attached laser test report)	N/A
the Ins rest	Instructional safeguard:	15 restine 115 restine 15 restine 15 restine 15 rest	
Testine 215 Te	Tool	12 Lesting La lesting La Lesting La Lesting La La La La	
10.4	Protection against visible, infrared, and UV radiation	the product of the pr	N/A
10.4.1	General	Testing 15 resting 15 resting 15 resting 15 resting	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons::	213 765 1118 113 768 118 113 768 118 115 768 115 768 118 115 115 118 115 115 115 115 115 11	N/A
10.4.1.b)	RS3 accessible to a skilled person:	$T = \frac{2}{3} \frac{1}{3} $	N/A
115 Testine 115 Testine 115 Testine	Personal safeguard (PPE) instructional safeguard:	a the trong to the transformed t	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:	15 Test the 25 Tost the 25 Test the 25 Test	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:	(See appended table B.3 & B.4)	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque:	and the second s	N/A
10.4.1.f)	UV attenuation	Treating the reating the reating the reating the reating	N/A
10.4.1.g)	Materials resistant to degradation UV	The test into the test into the time the test	N/A



Clause	EN IEC 62368-1		Decility
Clause	Requirement	Remark	Result
10.4.1.h)	Enclosure containment of optical radiation:	stine 15 restine 15 re	N/A
10.4.1.i)	Exempt Group under normal operating conditions	resting the the resting the control of the the the resting the the resting the	N/A
10.4.2	Instructional safeguard:	The resting the resting the resting the resting the	N/A
10.5	Protection against x-radiation	ting 15 resting 15 resting 15 resting 15 resting 17	N/A
10.5.1	X- radiation energy source that exists equipment:	(See appended table B.3 & B.4)	N/A
the Tro Teorin	Normal, abnormal, single fault conditions	S restine 115 restine 115 restine 115 restine 115 rest	N/A
restine 115 Tes	Equipment safeguards	15 resting 15 resting 15 resting 15 resting 15 re	N/A
F resting 1/5	Instructional safeguard for skilled person	The Lip Les The Lip Les The Lip Les The Lip Les The Lip	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	Continue ID for a state ID for a sta	1 e T
esting The Lest	Abnormal and single-fault condition	(See appended table B.3 & B.4)	N/A
Testine US	Maximum radiation (pA/kg)	18 115 rescine 115 rescine 115 restine 175	N/A
10.6	Protection against acoustic energy sources	the 115 resting 115 resting 115 resting 115 resting	N/A
10.6.1	General Control of the second	Testing US Testing US Testing US Testing US Testing	N/A
10.6.2	Classification	12 Les 14 12 Les 14 12 Les 14 12 Les 14 12 Les 12 Les 14 12 Les 14 12 Les 14 12 Les 14 12 Les	N/A
TESTING ATS TE	Acoustic output, dB(A):	15 resting 15 resting 15 resting 15 resting 15	N/A
To restine In	Output voltage, unweighted r.m.s.	10 113 785 108 113 788 108 113 788 108 113 788 108 113 Shine 115 788 108 115 788 108 115 788 108 115 788 108 10 Shine 115 788 108 115 788 108 115 788 108	N/A
10.6.4	Protection of persons	resting 15 resting 15 resting 15 resting 15 resting	N/A
time 215 Test	Instructional safeguards	To resting the resting the resting the rest	N/A
restine 175 Testine 175	Equipment safeguard prevent ordinary person to RS2	The tree time the testine the tree time the tree time the tree time the testine the tree time time time time time time time ti	-
115 Testine 1 115 Testine 1 18 115 Testine 1	Means to actively inform user of increase sound pressure	10° (110° 115° 115° 10° (110° 115° 110° (110° 115° 10° (110° 115° 10° (110° 115° 10° (110° 115° 110° 115° 10° (110° 115° 10° (110° 115° 110° 115° 10° (110° 115° 10° (110° 115° 10° (110° 115° 10° (110° 115° 10° (110° 115° 10° (110° 115° 10° (110° 115° 110° 115° 110° 115° 10° (110° 115° 110° 115° 10° (110° 115° 110° 115° 10° (110° 115° 115° 110° 115° 110° 115° 110° (110° 115° 110° 115° 110° 115° 110° (110° 115° 115° 110° 115° 115° 110° (110° 115° 115° 115° 110° 115° 115° 110° 115° 115	15
tine 215 (esti estine 215 (esti estine 215 (estine festine 215 (estine 215 (es	Equipment safeguard prevent ordinary person to RS2	10 10 10 10 10 10 10 10 10 10 10 10 10 1	50 51 (5)
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	the try teaction to the tr	N/A
10.6.5.1	Corded passive listening devices with analog input	test in 175 test in 175 test in 175 test in 175 test test in 175 test in 175 test in 175 test in 175 test 5 test in 175 test in 175 test in 175 test 5 test in 175 test	N/A
restine IN res restine IN re restine IN r restine IN r restine IN	Input voltage with 94 dB(A) L <sub>Aeq</sub> acoustic pressure output	1. The set the tree to set in the tree the tree to the	12 17
10.6.5.2	Corded listening devices with digital input	estine 115 restine 115 restine 115 restine 1 restine 115 restine 115 restine 115 restine 1 restine 115 restine 115 restine 115 restine 1	N/A
Ins The Lesting	Maximum dB(A)	105 (108 175 105 108 175 108 175 108 175 108 175 108 175 108 175 108 175 100 1	n8
10.6.5.3	Cordless listening device	13 testing 15 testing	N/A
Testine 215 T	Maximum dB(A)	the TTS rest the TTS rest the TTS rest the TTS	1e

B 115 restine	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING         P           CONDITION TESTS AND SINGLE FAULT CONDITION TESTS         P	e The The
B.2	Normal Operating Conditions P	esting 1



erine The Lee	EN IEC 62368-1	175 resting 175 resting 175 resting 175 resting 175 res	SCIPE 215 Test
Clause	Requirement	Remark	Result
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	15 Test Ing 15 17 Test Ing 15 15 Test Ing 16 Test Ing 16 Test Ing
eting LTS rest esting TTS rest resting TTS rest resting TTS r	Audio Amplifiers and equipment with audio amplifiers:	Not such equipment.	N/A
B.2.3	Supply voltage and tolerances	±10%	15 resting Pris
B.2.5	Input test	(See appended table B.2.5)	1 To Test Pro
B.3	Simulated abnormal operating conditions	5 resting 15 resting 15 resting 15 resting 15 rest	AND THE TOP
B.3.1	General requirements	(See appended table B.3)	N/A
B.3.2	Covering of ventilation openings	ine 15 restine 15 restine 15 restine 17	N/A
B.3.3	D.C. mains polarity test	The EUT is not connected to a D.C. mains	N/A
B.3.4	Setting of voltage selector:	No setting of voltage selector within the EUT	N/A
B.3.5	Maximum load at output terminals	ing 115 resting 115 resting 115 resting 115 resting 115	TS Test ine PS
B.3.6	Reverse battery polarity	No battery within the EUT	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	The state of the second	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effectively.	Testing Its
B.4	Simulated single fault conditions	resting the resting the resting the resting	115 Test Pro
B.4.2	Temperature controlling device open or short- circuited	(See appended table B.4)	N/A
B.4.3	Motor tests	as 115 reaction 125 reaction 125 reactions 175	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	(See Clause G.5)	N/A
B.4.4	Short circuit of functional insulation	5 rest int 15 rest int 15 rest int 15 rest int 15 rest	CUP TTS TEPCH
B.4.4.1	Short circuit of clearances for functional insulation	The reading the treating the reading the reading the the	res time the tes
B.4.4.2	Short circuit of creepage distances for functional insulation	in IC reating to reati	15 Testine P15
B.4.4.3	Short circuit of functional insulation on coated printed boards	real mark the real mark to read	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	the first reading 1.5 rest into 1.5 rest int	Tes Line LIP Te Tes Line LIP Te Testine LIS Testine LIS
B.4.6	Short circuit or disconnect of passive components	stine 15 restine 15 restine 15 restine 15 restine	115 Test P
B.4.7	Continuous operation of components	100 100 100 100 100 100 100 100 100 100	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	The rest the	rest ins 175 Res rest ins 175 Res
B.4.9	Battery charging under single fault conditions:	No battery involved in the EUT	N/A
CITS Testing	UV RADIATION	resting 115 resting 15 resting 15 resting	N/A
C.1	Protection of materials in equipment from UV radiation	The section of the se	N/A
C.1.2	Requirements	18 15 Testing 25 Testing 15 Testing 15 Testing 15	N/A



er 100 115 10	EN IEC 62368-1		LUP TID LOD
Clause	Requirement	Remark	Result
C.1.3	Test method	2 110 12 102 102 108 12 102 100 112 108 12 1 108 12 102 102 108 12 102 108 10 10 10 1 108 12 102 102 108 12 102 108 12 108 10 10 102 102 108 10 102 108 10 102 108 10 102 108 10 10 102 108 105 108 108 105 108 108 108 108 108 108 108 108 108 108	N/A
C.2	UV light conditioning test	5 resting 115 resting 115 resting 115 resting	N/A
C.2.1	Test apparatus	The rest into the rest interent interent intotherest into the rest into the rest intot	N/A
C.2.2	Mounting of test samples	10° 115 Testine 115 Testine 115 Testine 115 10° 115 Testine 115 Testine 115 Testine 115 10° 115 Testine 115	N/A
C.2.3	Carbon-arc light-exposure apparatus	Suns 15 resting 15 resting 15 resting 15 resting 15	N/A
C.2.4	Xenon-arc light exposure apparatus	resting 115 resting 115 resting 115 resting 115 resting	N/A
Dine 215 Te	TEST GENERATORS	The resting IS resting IS resting The resting The rest	N/A
D.1. Ins 115	Impulse test generators	18 15 resting 15 resting 15 resting 15 resting 15	N/A
D.2	Antenna interface test generator	sing the testing testing the testing testing the testing testi	N/A
D.3	Electronic pulse generator	105, 108 112 105, 108 112 108, 108 112 105, 108 165, 108 112 105, 108 112 105, 108 112 105, 108	N/A
E. 108 115 10	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A
E.1 Ins The	Audio amplifier normal operating conditions	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	N/A
TTS Testing	Audio signal voltage (V)		lest ing Th
na 15 restin	Rated load impedance (Ω)	Testing Up testing Up testing Up testing	LIS Test INS
E.2 15 10	Audio amplifier abnormal operating conditions	5 resting TS resting TS resting TS resting TS rest	N/A
Fresting 15	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	ting LP re
F. 1esting	General requirements	tine 15 restine 15 restine 15 restine 15 restine 15	Testine P 15
A D'S Test int ne 215 Test int the 215 Test int the 215 Test stine 215 Test restine 215 Test Test int 25 Test int 2	Instructions – Language::	Evaluated the user manual in English version. The manufacturer commits to provide them in the language of the countries where the product will be distributed.	5 to rest the 15 to rest the 15 to rest the 15 to rest 15 to r
F.2	Letter symbols and graphical symbols	sting the resting the resting the resting the	Test in B 17
F.2.1	Letter symbols according to IEC60027-1	lestine US restine US restine US testine	LIS TOSPINS
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	15 105 106 105 105 105 106 105 105 105 105 105 105 105 105 105 105	the LTS Pert
F.3	Equipment markings	11 4 15 189 118 15 189 118 118 115 189 118 115 189 118 115	(cs1,108 P/S (cs1,108 P/S
F.3.1	Equipment marking locations	On the product	S Test Rall
F.3.2	Equipment identification markings	testing 15 resting 15 resting 15 resting 15 resting	
F.3.2.1	Manufacturer identification:	See marking	ting 15 Tes
F.3.2.2	Model identification:	See marking	resting TR
F.3.3	Equipment rating markings	estine 15 restine 15 restine 15 restine 15 restine 1	S rest Rest
F.3.3.1	Equipment with direct connection to mains	Considered	The CR
F.3.3.2	Equipment without direct connection to mains	The less the The less the The less the The less	N/A
F.3.3.3	Nature of supply voltage:	See marking	lest tue Tis
F.3.3.4	Rated voltage	See marking	S Test ins
F.3.3.4	Rated frequency	See marking	LTS Testing
F.3.3.6	Rated current or rated power	The resting to resting to resting the test	une UTS res



Clause	Requirement	Remark	Result
	Requirement	Remain	Result
F.3.3.7	Equipment with multiple supply connections	contractions for the contractions of the	N/A
F.3.4	Voltage setting device	Test in the rest in the rest in the rest in	N/A
F.3.5	Terminals and operating devices	15 rest ing 15 rest ing 15 rest ing 15 rest ing 15 rest	Ins 17 Pres
F.3.5.1	Mains appliance outlet and socket-outlet markings		N/A
F.3.5.2	Switch position identification marking	rescripted It's rescripted It's rescripted It's rescripted in the	N/A
F.3.5.3	Replacement fuse identification and rating markings	5 restine 15 restine 15 restine 15 restine 15 rest 15 restine 15 restine 15 restine 15 restine 15 rest 16 restine 15 restine 15 restine 15 restine 15 rest	INB 115 Pest
F.3.5.4	Replacement battery identification marking:	ine 15 restine 15 restine 15 restine 15 restine 15	N/A
F.3.5.5	Terminal marking location	is in its resting its resting its resting its resting its	N/A
F.3.6	Equipment markings related to equipment classification	1997 - 1998 - 1997 - 1999 - 19	N/A
F.3.6.1	Class I Equipment	115 resting the resting the resting the resting the the	TINE TR
F.3.6.1.1	Protective earthing conductor terminal	the US restine US restine US restine US restine IN	Test in PLT
F.3.6.1.2	Neutral conductor terminal	resting 15 resting 15 resting 15 resting 15 resting	15 Test Pis
F.3.6.1.3	Protective bonding conductor terminals	5 resting 15 resting 15 resting 15 resting 15 resting	N/A
F.3.6.2	Class II equipment (IEC60417-5172)	10 115 165 108 115 165 108 115 165 108 115 16 115 165 108 115 165 108 115 165 108 115 16 115 165 108 115 16	N/A
F.3.6.2.1	Class II equipment with or without functional earth	ing the testing the testing the testing the	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	and the second s	N/A
F.3.7	Equipment IP rating marking	IPX0 une 12 resume 15 resume 15 restine 15 rest	108 115 185'
F.3.8	External power supply output marking	Marked on the label	er ins PS
F.3.9	Durability, legibility and permanence of marking	Marking plate was provided on the enclosure and it was legible, permanent and easily discernible.	Testing 1 Stesting 15 Testing 15 Testing 15 Testing
F.3.10	Test for permanence of markings	Complied	ING THE POS
F.4 100 115	Instructions	no 12 restine 12 restine 12 restine 15 restine 25	Sting Po
17 100 100 100 100 100 100 100 100 100 1	a) Equipment for use in locations where children not likely to be present - marking	The accessibility of equipment was evaluated by using test probe of Figure V.2.	P
estine (15 res restine (15 res restine (15 r) restine (15 r) for restine (15 r) r(5 restine (15	b) Instructions given for installation or initial use	Relevant safety caution texts and installation instruction are available.	Ins ITS Per
The Testine T	c) Equipment intended to be fastened in place	See above.	S Test Ra
ting 215 Tostin sting 215 Tostin esting 215 Tost tosting 215 Tost tosting 215 Tost	d) Equipment intended for use only in restricted access area	The EUT is not such type equipment	N/A
S Testine (15 S Testine (15 15 Testine (15 15 Testine (15 15 Testine (15 15 Testine (15 15 Testine (15)	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	No such terminals provided.	N/A
ine 115 Testin	f) Protective earthing employed as safeguard	Testing IIS Testing IIS Testing IIS Testing IIS Testing	P
resting 115 Tes Testing 115 Tes	g) Protective earthing conductor current exceeding ES 2 limits	The resting ID resting The res	N/A



sting The Lest	EN IEC 62368-1	The reacting the r	the The Least
Clause	Requirement	Remark	Result
175 Test ine 175 175 Test ine 17 175 Test ine 17	h) Symbols used on equipment	Complied	70° 10° 10° 70° 10° 10° 10° 20° 10° 10° 10°
ine 115 Testine phe 115 Testine phe 115 Testine phille 115 Testine	i) Permanently connected equipment not provided with all-pole mains switch	The EUT is not a permanently connected equipment	N/A
Desting 10 10	j) Replaceable components or modules providing safeguard function	No replaceable components	N/A
F.5	Instructional safeguards	No instructional safeguard is considered as necessary.	N/A
estins 215 Test estins 215 Test restins 215 Test Testins 215 Te Testins 215 Test Testins 215	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	No instructional safeguard required in the equipment.	N/A
Gra Test ins IT	COMPONENTS	5 118 115 100 116 115 105 116 115 105 116 115 105 1116 115 105 116 115 105 116 115 105 105 115 105 116 115	Test P.
G.1 15 Testing	Switches to rescue 15 resume 15 rest into 15	Testing I's resting I's resting I's resting I's resting	N/A
G.1.1	General requirements	15 resting 15 resting 15 resting 15 resting 15 rest	N/A
G.1.2	Ratings, endurance, spacing, maximum load	ne 15 restine 15 resti	N/A
G.2	Relays	100 115 120 100 115 120 100 115 100 115 120 100 115	N/A
G.2.1	General requirements	100 100 105 100 105 105 105 105 105 105	N/A
G.2.2	Overload test	C Testing IC Testing IC Testing IC Testing IC Testing C	N/A
G.2.3	Relay controlling connectors supply power	15 Testing US Tes	N/A
G.2.4	Mains relay, modified as stated in G.2	ting 115 resting 115 resting 15 resting 15 resting 15	N/A
G.3	Protection Devices	Testing IT resting Its resting Its resting	IS TESPID
G.3.1	Thermal cut-offs	5 resting 25 resting 25 resting 25 resting 25 rest	N/A
G.3.1-2A) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	100 175 reading 17	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	entre 175 restine 15 restine 15 restine 15 restine 15 restine 175 restine 15 restine 15 restine 175 restine 1 restine 175 restine 175 restine 175 restine 1 restine 175 restine 16 175 restine 155 restine	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	The second secon	N/A
G.3.2	Thermal links	ins 15 resting 15 resting 15 resting 15 resting 15	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	esting US resting US resting US resting US resting U	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	resting 15 resting 15 resting 15 resting 15 resting	N/A
estine 113 res restine 115 res	Aging hours (H)	15 resting 15 resting 15 resting 15 resting 16 rest	INS ITS TO
5 Testine 215 T	Single Fault Condition:	ing 115 testing 115 testing 115 testing 15 testing 115 t	Cestins 115
115 rescine 1	Test Voltage (V) and Insulation Resistance ( $\Omega$ ).:	estine 15 restine 15 restine 15 restine 15 restine 15	S Testine L
G.3.3	PTC Thermistors	No PTC thermistor provided within the equipment.	N/A
G.3.4	Overcurrent protection devices	10 10 100 100 110 10 100 100 10 10 100	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	res (108, 175, 175, 108, 175, 176, 108, 175, 176, 108, 175, 176, 108, 175, 176, 108, 175, 176, 176, 176, 176, 176, 176, 176, 176	N/A
G.3.5.2	Single faults conditions	(See appended Table B.4)	N/A



ting The Lest	EN IEC 62368-1		Elma Transfer
Clause	Requirement	Remark	Result
<b>G.4</b>	Connectors	2010 12 10 10 10 10 10 10 10 10 10 10 10 10 10	N/A
G.4.1	Spacings	5 resting 115 resting 115 resting 115 resting	N/A
G.4.2	Mains connector configuration	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5.	Wound Components	Testing US Testing US Testing US testing	15 Test Pin
G.5.1	Wire insulation in wound components	5 resting 15 resting 15 resting 15 resting 15 rest	ins The Pest
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	The testing to the training the testing to the the training to the training the testing th	10% 10% 10% 10% 10% 10% 10% 10% 10% 10%
G.5.1.2 b)	Construction subject to routine testing	sting 115 testing 115 testing 115 testing 115 testing 1 sting 115 testing	15 100 100 100 100
G.5.2	Endurance test on wound components	Testing ID resting ID resting ID resting ID resting	N/A
G.5.2.1	General test requirements	15 rest ins 115 rest ins 115 rest ins 115 rest ins 115 rest	N/A
G.5.2.2	Heat run test	up 115 resting 115 resting 115 resting 115	N/A
15 Testime ITS	Time (s)	sting 12 lesting 12 lesting 12 lesting 12 lesting	To Test int
Int IS Tesching	Temperature (°C):	Testing US testing US testing US testing	1 15 Test in
G.5.2.3	Wound Components supplied by mains	15 restine 15 restine 15 restine 15 restine 15 rest	N/A
G.5.3	Transformers	une 175 restine 175 restine 175 restine 175 restine 175	Testing Pro
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or EN IEC 62368-1)	the state of the s	To Testing I
tine 115 Test in	Position:	5 res 108 115 res 108 115 res 108 115 res 108 115 res 1 15 res 108 115 res 108 115 res 108 115 res 108 115 res	In I'm Test
Learning Try Learning	Method of protection:	15 100 100 100 10 100 100 10 100 100 100	STUR TIS LE
G.5.3.2	Insulation	the the rest ine the rest ine the rest ine the	100 100 100 175
115 Testine 1	Protection from displacement of windings	esting 15 resting 15 resting 15 resting 15 resting	15 Test the
G.5.3.3	Overload test	7 (25) 108 213 7 (25) 108 213 7 (25) 108 213 7 (25) 108 213 7 (25) 108 215 7 (25) 108 215 7 (25) 108 215 7 (25)	A TIS TER
G.5.3.3.1	Test conditions	Will not cause safety protection to fail	etine 119 Pres
G.5.3.3.2	Winding Temperatures testing in the unit	Sting 115 resting 115 resting 115 resting 115 resting 11	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	Testing 115 resting 115 resting 115 resting 115 resting	N/A
G.5.4	Motors	15 Test 1118 115 Test 1118 115 Test 1118 115 Test 1118 115 Test	N/A
G.5.4.1	General requirements	12 12 18 10 11 12 18 11 12 18 11 18 11 18 18 18 18 18 18 18 18 18	N/A
15 Testine 115	Position	Sting The Lesting The Lesting The Lip Lesting The	Centine 112
G.5.4.2	Test conditions	resting TO resting TO resting TO resting to resting	N/A
G.5.4.3	Running overload test	to resting the resting the resting the resting the rest	N/A
G.5.4.4	Locked-rotor overload test	TO resting IN resting TO resting TO resting TO	N/A
15 Testine LTS	Test duration (days)	ting 115 resting 115 resting 115 resting 115 resting 115	resting 115
G.5.4.5	Running overload test for d.c. motors in secondary circuits	estime 15 restime 15 restime 15 restime 15 restime	N/A
G.5.4.5.2	Tested in the unit	175 Tresting 175 Tresting 176 Tresting 175 Tresting 175 Trest	N/A



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Clause	Requirement	Remark	Result
17 Testing 17	Electric strength test (V):	and the reacting t	The tes ine the
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	Testing to testing the testing to testing to test	N/A
resting 115 re	Electric strength test (V)	10 resting 115 resting 115 resting 115 resting 115	10° 10° 10° 10° 10° 10° 10° 10° 10° 10°
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	106 107 102 100 10 102 100 100 100 100 100 100	N/A
G.5.4.6.2	Tested in the unit	Testing NS resting NS resting NS resting NS res	N/A
estine 215 Tes	Maximum Temperature	The resting the resting the resting the	N/A
Testins No. 1	Electric strength test (V):	The Tip Lesting Tip Lesting Tip Lesting Tip	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	A time the resting the resting the resting resting the resting the resting the resting	N/A
sting The Test	Electric strength test (V)	To rest ing to resting to reading the resting to re-	N/A
G.5.4.7	Motors with capacitors	at 15 resting 25 resting 15 resting 15 resting 15	N/A
G.5.4.8	Three-phase motors	the Lis restine Lis restine Lis restine	N/A
G.5.4.9	Series motors	resting 15 resting 15 resting 15 resting 15 resting	N/A
sting 115 Test	Operating voltage	5 Testime ITS Testime ITS Testime ITS Test	SCING TTS TEST
G.6	Wire Insulation	16 115 lesting 115 lesting 115 lesting 115	N/A
G.6.1	General	Jue 115 resching 115 resching 115 resching 1	N/A
G.6.2	Solvent-based enamel wiring insulation	resting the resting the testing the testing	N/A
G.7	Mains supply cords	15 restine 15 restine 15 restine 15 restine 15 res	N/A
G.7.1	General requirements	17 7 8 11 4 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
15 Test ins 175	Туре	ing 115 resting 11	15 100 100 17
LTS TESLING I	Rated current (A)	esting 12 resting 12 resting 12 resting 12 resting	115 Testing
ine The restin	Cross-sectional area (mm <sup>2</sup> ), (AWG):	Testine IIS Testine IS Testine IS Testine IS Test	Ine 215 Testin
G.7.2	Compliance and test method	The resting the resting the resting the	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	in 12 resting 22 resting 23 resting 25 resti	N/A
G.7.3.2	Cord strain relief	Testing 115 Testing 115 Testing 115 Test	N/A
G.7.3.2.1	Requirements	15 resting 25 resting 25 resting 25 resting 25 re	N/A
Testing Ins Testing	Strain relief test force (N):	ne LTS reaction LTS reaction LTS reactions LTS	Testing TIS
G.7.3.2.2	Strain relief mechanism failure	ating The Lesting the Lesting The Lesting	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm) :	resting 15 resting 15 resting 15 resting 15 resti	Ins 15 Testins
G.7.3.2.4	Strain relief comprised of polymeric material	15 res ins 15 res ins 15 res ins 15 res ins 15 res	N/A
G.7.4	Cord Entry:	(See appended table 5.4.11.1)	N/A
G.7.5	Non-detachable cord bend protection	ting 115 resting 115 resting 115 resting 15 resting 1 starting 1 s	N/A
G.7.5.1	Requirements	resting the resting the resting the resting	N/A
G.7.5.2	Mass (g):	testing 115 resting 115 resting 115 resting 115 res	115 Test
resting Mrs res	Diameter (m)	The second secon	Test LINE LIS TE



Clause	Requirement	Remark	Result
15 185 108 113	o teg ing the teg ing the less the tree the the teg ing the teg ing the teg	stim IT lesting I's lesting I's lesting	8 115 resume 1
STIS Testing	Temperature (°C)	15 105 115 105 115 105 115 125 105 115 125	105 175 705 105
G.7.6	Supply wiring space	To resting 105 resting 105 resting 105 resting 105 r	N/A
G.7.6.2	Stranded wire	a 115 testing 115 testing 115 testing 115	N/A
G.7.6.2.1	Test with 8 mm strand	ing the costing the costing the costing	N/A
G.8	Varistors	25 (106 1/5 765 (106 1/5 765 (106 1/5 765)) 765 (106 1/5 765) (106 1/5 765) (106 1/5 765) 765 (106 1/5 765) (106 1/5 765) (106 1/5 765)	N/A
G.8.1	General requirements	Testing 15 resting 15	N/A
G.8.2	Safeguard against shock	The resting The resting The resting The	N/A
G.8.3	Safeguard against fire	ting the resching the resching the restring	N/A
G.8.3.2	Varistor overload test	(See appended table B.3)	N/A
G.8.3.3	Temporary overvoltage:	(See appended table B.3)	N/A
G.9	Integrated Circuit (IC) Current Limiters	15 100 100 115 100 116 115 100 115 100 110 125	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	10 115 reactine 11	N/A
G.9.1 b)	Limiters do not have manual operator or reset	entite 1/5 test the 1/5 test the 1/5 test the 1/5 test the	N/A
G.9.1 c)	Supply source does not exceed 250 VA:	100 100 100 100 100 100 100 100 100 100	sting 15 resting
G.9.1 d)	IC limiter output current (max. 5A)	15 resting 15 resting 25 resting 15	rest no 175 rest
G.9.1 e)	Manufacturers' defined drift	n 15 resting 25 resting 15 resting 15 resting	15 Tes tine 175
G.9.2	Test Program 1	TING 15 TESTING US TESTING US TESTING	N/A
G.9.3	Test Program 2	resting 15 resting 15 resting 15 resting 15 rest	N/A
G.9.4	Test Program 3	15 restine 25 restine 25 restine 25 restine 25	N/A
G.10	Resistors	In the Lesting the Lesting The Lesting the	N/A
G.10.1	General requirements	ting the testing the testing the testing	N/A
G.10.2	Resistor test	restine 115 restine 115 restine 115 restine 115 rest	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	5 resting 15 resting 15 resting 15 resting 15 15 resting 15 resting 15 resting 15 resting 15	
G.10.3.1	General requirements	ting 125 resting 125 resting 125 resting 125 resting	N/A
G.10.3.2	Voltage surge test	costine US restine US restine US restine US rest restine US restine US restine US res	N/A
G.10.3.3	Impulse test	15 rearing 12 rearing 12 rearing 15	N/A
G.11	Capacitor and RC units	as the residue the residue the testine the	N/A
G.11.1	General requirements	1018 115 183 118 115 185 118 115 185 118 115 185 118 118 115 185 118 115 185 118 115 185 118 118 115 185 118 115 185 118 115 185 118	N/A
G.11.2	Conditioning of capacitors and RC units	resting 15 resting 15 resting 15 resting 15 res	N/A
G.11.3	Rules for selecting capacitors	S rescine 115 rescine 115 rescine 15	N/A
G.12	Optocouplers	15 resting 25 resting 25 resting 25 resting 25	N/A
S Testing ITS S Testing ITS ITS Testing ITS TTS Testing I ITS Testing I R ITS Testing I	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	100 175 1051 100 175 1051 100 175 1051 100 175 1051 100 100 175 1051 100 175 1051 100 175 1051 100 175 1051 100 100 175 105 1051 100 175 1051 100 175 1051 100 100 175 1051 100 175 1051 100 175 1051 100 105 100 175 1051 100 175 1051 100 175 1051 100 105 100 175 1051 100 175 1051 100 175 1051 100 105 100 175 1051 100 175 1051 100 175 1051 100 105 100 175 1051 100 175 1051 100 175 1051 100 105 105 105 1051 100 175 1051 100 175 1051 100 105 105 105 1051 100 175 1051 100 175 1051 100 105 105 105 1051 100 175 1051 100 175 1051 100 105 105 105 1051 100 100 100 100 100 100	N/A
ins 115 restin	Type test voltage Vini:	De restine The restine The restine The	resching 215 resch



Clause	Requirement	Remark	Result	
10000 100 100 100 100 100 100 100 100 1	2. control to the 12 test	The The Les the De Les the De Les the De Les the D	15 restine IT	
G.13	Printed boards	restine 115 restine 115 restine 115 restine	S 115 Test P	
G.13.1	General requirements	5 783 108 113 783 108 113 783 108 113 783 108 113 783	Stra The Les A	
G.13.2	Uncoated printed boards	The rest into 115 rest into 115 resting 115 rest into 115	N/A	
G.13.3	Coated printed boards	ns 115 resting 115 resting 115 resting 115 resting 115	N/A	
G.13.4	Insulation between conductors on the same inner surface	the the the testing testing the testing te	N/A	
ting 112 Level no ering 112 Level no true 112 Level no true 112 Level no	Compliance with cemented joint requirements (Specify construction)	5 reactions 1/5 reactions 1/5 reactions 1/5 re 1/5 reactions 1/5 reactions 1/5 reactions 1/5 re 1/5 reactions 1/5 reactions 1/5 reactions 1/5 re 1/5 reactions 1/5 reactions 1/5 reactions 1/5	entine 175 Test rest ine 175 Test Test ine 175 Test Test ine 175 Te	
G.13.5	Insulation between conductors on different surfaces	10 17 75 75 100 17 75 75 100 17 75 100 17 75 75 10 10 10 17 75 75 100 17 17 75 100 17 75 100 17 75 100 17 10 17 75 75 100 17 75 100 175 100 175 100 10 10 175 75 100 175 10	N/A	
a LTS Testing	Distance through insulation	(See appended table 5.4.4.5)	N/A	
sting 115 restrict	Number of insulation layers (pcs)	15 125 1118 115 125 1118 115 125 1118 115 1 15 125 1118 115 125 1118 115 125 1118 115 10	esting Ins test	
G.13.6	Tests on coated printed boards	The transformer the transformer the transformer the	N/A	
G.13.6.1	Sample preparation and preliminary inspection	ting 115 resting 115 resting 15 resting	N/A	
G.13.6.2a)	Thermal conditioning	resting 15 resting 15 resting 15 resting 15 resting	N/A	
G.13.6.2b)	Electric strength test	5 restine 15 restine 15 restine 15 restine 15 re	N/A	
G.13.6.2c)	Abrasion resistance test	15 restine 15 restine 15 restine 15 restine 15	N/A	
G.14	Coating on components terminals			
G.14.1	Requirements:	(See G.13)	N/A	
G.15	Liquid filled components	To reaching the reacting the re	N/A	
G.15.1	General requirements	15 resting 15 resting 15 resting 15 resting 15	N/A	
G.15.2	Requirements	Ing The rest ing	N/A	
G.15.3	Compliance and test methods	so interior to resting the resting the resting	N/A	
G.15.3.1	Hydrostatic pressure test	Testing 15 resting 15 resting 15 resting 15 res	N/A	
G.15.3.2	Creep resistance test	The reating The reacting The reacting The	N/A	
G.15.3.3	Tubing and fittings compatibility test	ins 115 resting 115 resting 115 resting 115 resting 115	N/A	
G.15.3.4	Vibration test	st ine 115 rest ine 115 rest ine 115 rest ine 115 rest ine	N/A	
G.15.3.5	Thermal cycling test	2 128 108 115 128 108 115 128 108 115 128 108 115 128 128 108 115 128 108 115 128 108 115 128 108 115 128 128 108 115 128 108 115 128 108 115 128 108 115 128	N/A	
G.15.3.6	Force test	15 rest ing 15 rest ing 15 rest ing 15 rest ing 16	N/A	
G.15.4	Compliance	no 115 restine 115 restine 115 restine 115 restine 115	N/A	
G.16	IC including capacitor discharge function (ICX)	esting 115 resting 115 resting 115 resting	N/A	
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	real instruction to real instruction in the real instruction instruction in the real instruction instruction in the real instruction instructin instruction instruction instruction instru	N/A	
b)	Impulse test using circuit 2 with Uc = to transient voltage	District the two the two the two testing testi	N/A	
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	A time the tree reasoning the test ing the test ing estime the tree reasoning the test ing the test ing reading the reasoning the reasoning the test ing reasoning the reasoning the reasoning the reasoning the test reasoning the reasoning the reasonin	N/A	
AT THE APPLICATION	Test voltage	the Bridger Bridger Bridger Bridger Bridger	Trade Star and	



string The Le	EN IEC 62368-1	The reaction of the reaction of the traction of the	and the rest
Clause	Requirement	Remark	Result
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer		N/A
D2)	Capacitance:	a the rest time the rest time the rest time the re-	esting the les
D3)	Resistance:	108 115 185 108 115 185 118 115 185 185 108 115	Testing 21
H The Testins	CRITERIA FOR TELEPHONE RINGING SIGNAL	Sesting 115 resting 15 resting 15 resting 15 resting	N/A
H. 115 Test	General 125 (set 100 15 (set 100 175 (set 10	to test int 15 restine 15 restine 15 restine 15 rest	N/A
H.2		1 15 resting US resting US resting US resting US re	N/A
H.3	Method B	Ins 15 restins 15 resting 15 resting 15 resting 15	N/A
H.3.1	Ringing signal	resting 12 resting 12 resting 12 resting 12 resting	N/A
H.3.1.1	Frequency (Hz)	5 76° 108 15 76° 108 15 76° 108 15 76° 108 15 76° 108 15 76° 108	ne The Les n
H.3.1.2	Voltage (V)	n 12 les lue 12 les lue 12 les lue 12 les lue 12 les	es ins ITS Tes
H.3.1.3	Cadence; time (s) and voltage (V):	The Transform	Testing 115
H.3.1.4	Single fault current (mA)::	100 115 120 118 115 120 118 115 120 118 15 120 118	In restant I
H.3.2	Tripping device and monitoring voltage	S resting 115 resting 115 resting 115 resting 115 resting	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	15 resting	N/A
H.3.2.2	Tripping device	ind 115 restine 115 restine 115 restine 115 restine 1	N/A
H.3.2.3	Monitoring voltage (V):	resting 15 resting 15 resting 15 resting 15 resting	The rest int
Jue 12 Lest	INSULATED WINDING WIRES FOR USE WITHO	OUT INTERLEAVED INSULATION	int I'm Real
Testing Lis	General requirements	(See separate test report)	re tine Lip Te
K Test Ing I	SAFETY INTERLOCKS	sting 115 resting 115 resting 115 resting 115 resting 1	N/A
K.1	General requirements	resting 125 resting 125 resting 125 resting 125 resting	N/A
K.2	Components of safety interlock safeguard mechanism	(See Annex G)	N/A
K.3	Inadvertent change of operating mode	and the rest ind the rest ind the rest ind the	N/A
K.4	Interlock safeguard override	resting 15 resting 15 resting 15 resting 15 resting 1	N/A
K.5	Fail-safe	5 125 118 215 125 118 215 125 125 118 215 125 118 115 125 111	N/A
estine 115 res	Compliance	(See appended table B.4)	N/A
K.6	Mechanically operated safety interlocks	18 15 restine 15 restine 15 restine 15 restine 15	N/A
K.6.1	Endurance requirement	ating 15 resting 215 resting 215 resting 15 resting 2 Deting 15 resting 215 resting 215 resting 15 resting 2	N/A
K.6.2	Compliance and Test method:	Contine 115 100 the 115 100 the time 115 100 the 15 100	N/A
K.7	Interlock circuit isolation	15 100 111 112 100 100 111 100 105 100 115 100 115 100 105 100 115 100	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):	A DE CESTING TO TESTING TO TESTING TO TESTING TO THE TO TH	N/A
K.7.2	Overload test, Current (A):	estine 115 restine 115 restine 15 restine	N/A
K.7.3	Endurance test	Testing The resting the resting the resting the rest	N/A
K.7.4	Electric strength test	(See appended table 5.4.11)	N/A



entine The Lean	EN IEC 62368-1		Club INS Les
Clause	Requirement	Remark	Result
C resting 17	DISCONNECT DEVICES	2. 110 112 102 102 102 112 102 110 112 102 110 112 102 10	100 100 100 11
Lef 17 resting	General requirements	resting 15 resting 15 resting 15 resting 15 resting	
L:2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Permanently connected equipment	15 resting 15 resting 15 resting 15 resting 15 res	N/A
L.3 tins 115 T	Parts that remain energized	118 115 restine 115 restine 115 restine 115 restine 115	N/A
LA restine Ir	Single phase equipment	Suns 125 Testing 125 Testing 125 Testing 125 Testing 12	Test in R 1
L.5 15 105 105 105	Three-phase equipment	Testing US resting US resting US resting US resting	N/A
L.6 115 Test	Switches as disconnect devices	To resting US resting US resting US resting US rest	N/A
L.7 ins 115 (	Plugs as disconnect devices	In Ito resting Ito resting Ito resting Ito resting Ito I	100 100 100 100 100 100 100 100 100 100
L.8	Multiple power sources	the 15 testine 15 testine 15 testine 15 testine 15	N/A
M 15 Testing	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	N/A
M.1	General requirements	No such battery used.	N/A
M.2	Safety of batteries and their cells	1 15 resting 15 resting 15 resting 15 resting 15 re	N/A
M.2.1	Requirements	ating 15 resting 15 resting 15 resting 15 resting 15	N/A
M.2.2	Compliance and test method (identify method):	resting 15 resting 15 resting 15 resting 15 resting	N/A
M.3	Protection circuits	to restring the restring the restring the restriction of the restricti	N/A
M.3.1	Requirements	1/5 resting 1/5 resting 1/5 resting 1/5 resting 1/5 re	N/A
M.3.2	Tests 5 resting 1/5 resting 1/	Line 115 Testine 115 Testine 115 Testine 115 Testine 115	N/A
ATS resting to	- Overcharging of a rechargeable battery	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N/A
the 215 rest in the 215 rest in the 215 rest rest ine 215 rest	<ul> <li>Unintentional charging of a non-rechargeable battery</li> </ul>	2 (************************************	N/A
Testine 115	- Reverse charging of a rechargeable battery	ng 115 resting 115 resting 115 resting 115 resting 115 r	N/A
The restant Its	- Excessive discharging rate for any battery	sting 15 resting 15 resting 15 resting 15 resting 15	N/A
M.3.3	Compliance::::::::::::::::::::::::::::::::	(See appended Tables and Annex M and M.4)	N/A
M.4	Additional safeguards for equipment containing secondary lithium battery		N/A
M.4.1	General	sting 115 resting 115 resting 115 resting 15 resting 15 resting 115 resting 115 resting 115 resting 115 resting	N/A
M.4.2	Charging safeguards	rest ins US rest ins US rest ins US rest ins US rest ins	N/A
M.4.2.1	Charging operating limits	15 rest ins 115 rest ins 115 rest ins 115 rest ins 115 rest	N/A
M.4.2.2a)	Charging voltage, current and temperature:	(See Table M.4)	resting Trs
M.4.2.2 b)	Single faults in charging circuitry:	(See Annex B.4)	P Testing 1
M.4.3	Fire Enclosure	resting 15 resting 15 resting 15 resting 15 resting	N/A
M.4.4	Endurance of equipment containing a secondary lithium battery	15 resting 15 resting 15 resting 15 resting 15 rest 15 resting 15 resting 15 resting 15 resting 15 rest 15 resting 15 resting 15 resting 15 rest 16 resting 15 rest	N/A
M.4.4.2	Preparation	ing the lesting the the lesting the list secting the	N/A
M.4.4.3	Drop and charge/discharge function tests	estine 115 restine 115 restine 115 restine 15 restine 1 restine 115 restine 115 restine 15 restine 15 restine	N/A
UNE DE LESTUR	Drop	Cresting 115 resting 115 resting 115 resting 15 resting	N/A
Lesting The Lest	Charge	215 700 100 100 100 100 100 100 100 100 100	N/A



Clause	Poquirement 15 rest of 15 rest of 15 rest of 15 rest of 15	Bomark	Pocult
Clause	Requirement	Remark	Result
115 100 100 10	Discharge	entine Do teadine Do teatine Do teatine to teatine teatine Do teadine Do teatine Do teatine to teatine teatine Do teadine Do teatine Do teatine	N/A
M.4.4.4	Charge-discharge cycle test	To real time the real time the real time the real	N/A
M.4.4.5	Result of charge-discharge cycle test	a the rest in the rest in the resting the	N/A
M.5	Risk of burn due to short circuit during carrying	in 125 resting 125 resting 125 resting 175	N/A
M.5.1	Requirement	en tine 115 restine 115 restine 115 restine	N/A
M.5.2	Compliance and Test Method (Test of P.2.3)	Testing US resting US resting US resting US rest	N/A
M.6	Prevention of short circuits and protection from other effects of electric current	to reaching to reaching to reaching the reaching to reaching to reaching the reachi	N/A
M.6.1	Short circuits	the The Les line The Les line The Les line The Les line The	N/A
M.6.1.1	General requirements	testing 115 resting 115 resting 115 resting 115 resting	N/A
M.6.1.2	Test method to simulate an internal fault	15 resting 15 resting 15 resting 15 resting 15 res	N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)	The results by results to results the results to results to the results of the results to results t	N/A
M.6.2	Leakage current (mA)	ching 15 resting 15 resting 15 resting 15 resting	N/A
M.7	Risk of explosion from lead acid and NiCd batteries	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	N/A
M.7.1	Ventilation preventing explosive gas concentration	1) 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	N/A
M.7.2	Compliance and test method	Terns 10 tening 10 testing 10 testing 10 testing	N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries	Testing T2 testing T2 testing T2 testing T2 testing T2 test	N/A
M.8.1	General requirements	up 15 resting 15 resting 15 resting 15	N/A
M.8.2	Test method	ting 115 testing 115 testing 115 testing 115 testing	N/A
M.8.2.1	General requirements	resting 115 resting 115 resting 115 resting 115 resting	N/A
M.8.2.2	Estimation of hypothetical volume Vz (m <sup>3</sup> /s):	5 (103 110 115 123 110 115 123 103 115 123 105 123 105 123 105 125 125 105 115 125 125 105 125 125 125 125 125 125 125 125 125 12	ting The Lest
M.8.2.3	Correction factors:	a 115 resting 115 resting 115 resting 115 resting 115	162 198 112 16
M.8.2.4	Calculation of distance d (mm)	une 115 restine 115 restine 115 restine 115 restine 115	2 (62,710, 122)
M.9	Preventing electrolyte spillage	Costine 115 restine 115 restine 115 restine	N/A
M.9.1	Protection from electrolyte spillage	5 resting 15 resting 15 resting 15 resting 15 rest	N/A
M.9.2	Tray for preventing electrolyte spillage	The resting the resting the resting the resting the the	N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)	And T.D. rest tool T.	N/A
N.S. US Test	ELECTROCHEMICAL POTENTIALS	15 (2011) 10 (15 (2011) 10 (15 (2011) 10 (15 )	N/A
Lescins ITS Te	Metal(s) used: Pollution degree considered		
OTESTINE LI	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		5 (est ins P(5
The restine	Figures 0.1 to 0.20 of this Annex applied	estine 115 restine 115 restine 115 restine	The Testing
Ris 115 Testin Ris 115 Testi 25 118 115 Test	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A
P.1 10	General requirements	No opennigs	N/A



cline VIS Test	EN IEC 62368-1	the reacting the reacting the reacting the	Testing 115 Test
Clause	Requirement	Remark	Result
P.2.2	Safeguards against entry of foreign object	sting 115 test ing 115 test	N/A
ine It's restin	Location and Dimensions (mm)	Test in the resting to testing to testing to te	estina 115 testina
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object	1114 115 (105 1108 115 (105 116) 115 (105 116)	N/A
18 215 Testing	Openings in transportable equipment	reschall US reschall US reschall US reschall US res	N/A
esting ITS Test	Transportable equipment with metalized plastic parts	5 reacting 1/5 reacting 1/5 reacting 1/5 1/5 reacting 1/5 reacting 1/5 reacting 1/5 1/5 reacting 1/5 reacting 1/5 reacting 1/5 1/5 reacting 1/5 reacting 1/5 reacting 1/6	
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):	2011 1/2 (2011) 1/2 (2	N/A
P.3	Safeguards against spillage of internal liquids	5 resting 15 resting 25 resting 25	N/A
P.3.1	General requirements	The resting the resting the resting the	N/A
P.3.2	Determination of spillage consequences	ins 115 resting 115 resting 115 resting	N/A
P.3.3	Spillage safeguards	estine 215 restine 15 restine 15 restine 15 rest	N/A
P.3.4	Safeguards effectiveness	5 Testing 115	N/A
P.4	Metallized coatings and adhesive securing parts	15 restine 15 restine 15 restine 15 restine 1	N/A
P.4.2 a)	Conditioning testing	118 215 725 (118 215 725) 118 215 725 (118 215 725) 118	N/A
LIS Testing I	Conditioning testing         Tc (°C)         Tr (°C)	Sting The restring The restring The restriction of	ing 115 Testing 11
ns Its restin	Tr (°C)           Ta (°C)	Testing 115 resting 115 resting 15	esting 115 105 10
serius Tip Ise	Ta (°C)	15 resting 15 resting 15 resting 15 resting 25	Test ins 115 Test
P.4.2 b)	Abrasion testing	(See G.13.6.2)	N/A
P.4.2 c)	Mechanical strength testing:	(See Annex T)	N/A
Q 1 to test in	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	est ins TS TeP Ins
Q.1	Limited power sources	15 restine 115 restine 115 restine 15 15 restine 115 restine 115 restine 115	Test ine ITS Ples
Q.1.1 a)	Inherently limited output	at 15 restine 15 restine 15 restine	N/A
Q.1.1 b)	Impedance limited output	sting US testing US testing US testing US test	Ind LTS TESCIN LT
ne 115 restine ne 115 restine ine 115 restine tine 115 resti	- Regulating network limited output under normal operating and simulated single fault condition	the set of	esting 15 response
Q.1.1 c)	Overcurrent protective device limited output	115 resting 115 resting 115 resting 115 resting 115	N/A
Q.1.1 d)	IC current limiter complying with G.9	ne The rest ine 115 rest ine 115 rest ine 15 rest ine	N/A
Q.1.2	Compliance and test method	Stine 115 restine 115 restine 115 restine 115 rest	N/A
Q.2	Test for external circuits – paired conductor cable	Testing ITS resting ITS	N/A
estime 215 Tes	Maximum output current (A):	15 Testing 15 Testing 15 Testing 15 Testing 15	is rest me ins in te
S Testing 215	Current limiting method:	ing The resting The resting The resting	The rest we The
R 15 Testing	LIMITED SHORT CIRCUIT TEST	estimation of testine 10 testine 10 test	N/A
R.1	General requirements	Testing Its resting Its resting Its resting Its re-	N/A
R.2	Determination of the overcurrent protective device and circuit	to reating to reacting to reacting to reacting to to reating to reacting to reacting to reacting to a to reacting to reacting to reacting to a to reacting to reacting to reacting	N/A



Line The is	EN IEC 62368-1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	a Die Versting Die Vers
Clause	Requirement	Remark	Result
R.3 rest in	Test method Supply voltage (V) and short-circuit current (A)).	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	N/A
S. 115 105 105	TESTS FOR RESISTANCE TO HEAT AND FIRE	To resting its resting its resting	115 100 100 115 R.S.
S.1 100 115	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	TO reacting to rea	
ne 115 restin	Samples, material	V-0 enclosure used	Testing Its Testing
stins 215 Tes	Wall thickness (mm)	To restine Its restine Its restine	The rest ins The rest
Testing ITS	Conditioning (°C):	no 15 restine 15 restine 15 rest	1118 115 Tes (1118 115)
LIS resting LIS resting S LIS resting ns LIS resting ns LIS resting	Test flame according to IEC 60695-11-5 with conditions as set out	the the the reaction is reacting the test	N/A
108 215 Tes	- Material not consumed completely	5 resting 15 resting 15 resting	N/A
resting 215 1	- Material extinguishes within 30s	115 resting 215 resting 215 resting 15 resting	N/A
15 Testing 17	- No burning of layer or wrapping tissue	ing The Less number of testing The Less	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	V-0 enclosure used	restine 15 restine restine 15 restine restine 25 restine
estine The Le	Samples, material	The resume Instruction Instruction Instruction	175 Test Ine 175 Test
Testing 175	Wall thickness (mm):	in 15 resting 15 resting 15 rest	INS ITS TESTING ITS
LIS Testing	Conditioning (°C)	sting 15 resting 15 resting 25 r	resting 115 resting 1
A The Line Line Line Line Line Line Line Lin	Test flame according to IEC 60695-11-5 with conditions as set out	resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 resting 1 15 resting 15 resting 15 resting 1, 15 resting 1	N/A
restine 215	Test specimen does not show any additional hole	15 12 118 118 115 12 118 115 12 118	N/A
S.3	Flammability test for the bottom of a fire enclosure	and the formation of the second secon	ALINE TO COSTINE POR COSTINE TO COSTINE POR COSTINE TO COSTINE POR COSTINE TO COSTINE TO COSTINE TO
Ins LIS Test	Samples, material:	Testing US resting US resting US	S resting 15 resting
estine LIS Te	Wall thickness (mm):	The resting The resting The resting	215 test the 215 tes
Testing 275	Cheesecloth did not ignite	18 115 resting 115 resting 115 rest	N/A
S.4	Flammability classification of materials	sting 115 resting 115 resting 115 r	N/A
S.5 55	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	reschand 15 rest inn 15 rest inn 15 5 rest inn 15 rest inn 15 rest inn 15 rest inn 15 rest inn 15 rest inn 15 rest inn 16 rest inn 15 rest inn 16 rest inn 15 rest inn 16	5 Testing 15 Test
Testing ITS	Samples, material	Ine The Lessing The Lessing The Lessing The Less	the US resting TS
The resting	Wall thickness (mm)	erine The Learne The The Learne The The	resting 12 resting 1 resting 12 resting
INS THE TEST	Conditioning (test condition), (°C):	rescine 115 rescine 115 rescine 115	S Testine 15 Testin
estine 175 Te testine 175 T Testine 175	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
S Testine I IS Testine I IS Testine IS Testine	After every test specimen was not consumed completely	the to test the to test the to test the to test	N/A
ine ITS Test	After fifth flame application, flame extinguished within 1 min	Testing IS resting IS resting in the start of the start o	N/A



5 108 11 . 10	EN IEC 62368-7		"etus" In. der
Clause	Requirement	Remark	Result
The resting	MECHANICAL STRENGTH TESTS	the string 1/2 testing 1/2 tes	To reaction I
Tel 1 to test	General requirements	2 (cost into 1/2) (cost into 1	
T.2	Steady force test, 10 N	(See appended table T.2)	51 108 175 Pre
T.3	Steady force test, 30 N	(See appended table T3)	Testing Pis
T.4 Testing	Steady force test, 100 N:	(See appended table T4)	15 Test 18 1
T.5	Steady force test, 250 N:	(See appended table T5)	N/A
T.6	Enclosure impact test	(See appended table T6)	N/A
Testine ITS	Fall test	Und 15 resting 15 resting 15 resting 15 resting 15	N/A
The Test ing	Swing test	entine 115 restine 115 restine 115 restine 115 restine 1	N/A
T.75 1050	Drop test:	(See appended table T7)	ne US Testinn
T.8	Stress relief test:	(See appended table T8)	ST NE LTS Pres
T.9	Impact Test (glass)	LINE ITS TEST INE ITS TEST INE ITS TESTINE ITS	N/A
T.9.1	General requirements	etine 115 restine 115 restine 115 restine 115 restine 1	N/A
T.9.2	Impact test and compliance	2 100 11 12 12 100 11 12 12 100 11 12 12 100 11 12 12 100 11 12 12 100 11 12 12 12 100 11 12 12 12 100 11 12 12 12 12 12 12 12 12 12 12 12 12	N/A
estine The re	Impact energy (J)	1 10 resting 10 resting 10 resting 10 resting 10 res	2 108 115 184
Testing ITS	Height (m)	1/18 12 125 108 12 108 12 103 108 12 105 108 12 10 108 12	Testine 175
T.10	Glass fragmentation test	(See sub-clause 4.4.4.9)	N/A
<b>T</b> .11	Test for telescoping or rod antennas	Testing IN resting IN resting IN resting IN resting	N/A
estine LTS re	Torque value (Nm):	a 15 resting 15 resting 15 resting 15 resting 15 res	en 100 110 100
Urestine ITS	MECHANICAL STRENGTH OF CATHODE RAY 1 AGAINST THE EFECTS OF IMPLOSION	TUBES (CRT) AND PROTECTION	N/A
U:1	General requirements	centure 115 restine 115 restine 115 restine	N/A
U.2	Compliance and test method for non-intrinsically protected CRTs	The reacting the r	N/A
U.3	Protective Screen:	(See Annex T)	N/A
VIS resting	DETERMINATION OF ACCESSIBLE PARTS (FIN	IGERS, PROBES AND WEDGES)	N/A
V.1	Accessible parts of equipment	The test the the test the the test the the test	N/A
V.2	Accessible part criterion	5 15 Testing 15 Testing 15 Testing 15 Testing 25 Tes	N/A



estine ITS rest	EN IEC 62	368-1	estine 115 restine 115 restine
Clause	Requirement	Remark	Result
LIS restine LIS	testing 15 resting 15 resting 15 resting 15 resting 15 resting 15 resting	The resting The resting The Lesting	The reaction of the reaction of the the

4.1.2	TABLE: List of c	ritical component	Stine 15 restine 15 rest	108 115 Test 108 115 Test	ing 15 rest Prof 1
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity <sup>1</sup> )
Supply cord	YOUZHI DIANXIAN	2464	22AWG, 300V, 80°C	IEC60227-5	VDE
Plastic enclosure	Various	H-020	V-0, 105°C	UL 94	nh ITS CLine I ine ITS CLine I ine ITS Testine
PCB	Various	CYTEQ-001	V1.0, 130 °C	UL 796	resting UL resting
Internal wire	Various	Various	105°C, 300Vac	UL 758	Test ULTS TE
Fuse	Various	116 115 125 116 115 125 125 108 115 125 116 108 115 125 108 115 15 108 115 125 125 108 115 115 108 115 108 115 108 115 108 115	T2A, 250V	EN IEC 62368-1	Tested with appliance
Y-Capacitors	STE	CT7221K	222M	IEC 60384-14	VDE

4.8.4, 4.8.5	TABLE: L	ithium coin/button cell batte	ries mechanical tests	N/A
(The follow	wing mechanic	al tests are conducted in the se	quence noted.)	
4.8.4.2	TABLE: S	tress Relief test	10 10 100 100 100 100 100 100 100 100 1	·
	Part	Material	Oven Temperature (°C)	Comments
15 Testins	E TTS Testing TTS	Testine US Testine US Testine US	real the 115 real the 115 real the 115 real the 15 rea	ering ILS lesting I
4.8.4.3	TABLE: B	attery replacement test	15 resting 15 resting 15 resting 15 resting 15 resting 17	
Battery pa	art no		Test time It's rest ine It's rest ine It's rest ine	·
Battery In	stallation/with	drawal	Battery Installation/Removal Cycle	Comments
18 115 Testine	115 restine 115	resting 115 resting 115 resting 115	test no 15	estine 175 Testine 17
Line 115 Test	THE TL LESTING TO	5 resting 15 resting 15 resting 15 resting 15	$\sum_{i=1}^{n} \frac{e^{ix_{i}} e^{ix_{i}}}{e^{ix_{i}} e^{ix_{i}}} \sum_{i=1}^{n} \frac{e^{ix_{i}} e^{ix_{i}}}{e^{ix_{i}}} \sum_{i=1}^{n} \frac{e^{ix_{i}} e^{ix_{i}}}{e^{ix_{i}}} \sum_{i=1}^{n} \frac{e^{ix_{i}} e^{ix_{i}}}{e^{ix_{i}}} \sum_{i=1}^{n} \frac{e^{ix_{i}} e^{ix_{i}}}{e^{ix_{i}}}} \sum_{i=1}^{n} e^{$	C Testing The Lis Lesting
estine 175 Te	esting The Lesting	15 12 12 12 10 11 12 12 12 12 12 12 12 12 12 12 12 12	1 10 100 100 100 100 100 100 100 100 10	115 restine 115 rest
S Testing 215	5 TESTING 175 TEST	tine US restine US restine US restine US rest	1118 15 Ten 1118 15 Ten 108 15 Ten 108 15 Ten 118 15 Ten 108 15 Te	ing the leasting the line
115 Testing	TIS restine LIS	resting TR Lesting TR Lesting TR L	est in the testing testing the testing testing the testing	edine 115 restine 215
ins The Test	ing ITS resting IT	The rest ing 115 rest ing 115 rest ing 115	Te the 115 tear the 15 6 of the 15 tear the 15	Testine Ins Testine
estine ITS re	sting IIS resting	115 reaching 115 r	1 15 Test ing 15 Test ing 18 Test ing 15 Test ing 15 Test ing 15 Test ing 16 Test ing 15 Test ing 16 T	15 105 108 115 105 105 105 105
Testing 215	105 100 115 105 105	108 115 105 108 115 105 115 105 115 105 105 105 105 105	$\lim_{t \to 0} \frac{1}{t^{\alpha}} \frac{1}{t$	ne LTS restine LTS re ins LTS restine LTS re
15 restine 1 15 restine	15 Testing 15 Te	esting The Lesting The Lie Lesting The Lie Lesting The Lie Lesting The Lesting The Lie Lesting	esting the two the two	estine TTS Testine TTS
4.8.4.4	TABLE: Dr	op test	Testime 15 resting 15	
mpact Are	ea	Drop Distance	Drop No.	Observations
S Testing 215	S Testing 115 Tes	ing The Leading The Lister The The Lister	tine 1 s testine 115 testine 1	ins ITS Testins ITS T
18 115 Testing	a LIS Testing LIS	Testing 115 resting 115 resting 15	rest in 15	estine 115 restine 1
4.8.4.5	TABLE: Im	pact 10 10 10 10 10 10 10 10 10 10 10 10 10	15 100 110 110 100 100 100 100 100 100 1	
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments


estine 215 Tes	Sting The Lesting The	EN IEC 6	2368-1	Ins I've Les cine I've Les tine
Clause	Requirement	15 resching 115 resching 115 restrict 1 15 resching 115 resching 115 restrict 1 15 resching 15 resching 15 restrict 1 15 resching 15 resching 15 restrict 1 15 resching 15	Remark	Result
4.8.4, 4.8.5	TABLE: Lith	ium coin/button cell batteries	s mechanical tests	N/A
(The follo	wing mechanical t	ests are conducted in the seque	nce noted.)	
Testing 115	Testing 275 Testing	TS resting ITS resting ITS resting T	5 restine 15 restine 15 restine 15 restine 15 res	sting US testing US rest
4.8.4.6	TABLE: Crus		The resting The resting the resting the	1est
Tes	t position	Surface tested	Crushing Force (N)	Duration force applied (s)
restine TIS TE	estine 215 Testine 215	5 Test (108 115 Test (108 115 Test (108 115 5 Test (108 115 Test (108 115 Test (108 115 15 Test (108 115 Test (108 115 Test (108 115	100 108 115 105 118 115 105 118 115 105 118 115 105 105 105 105 105 105 105 105 105	the TS resume TS restin
Suppleme	entary information	The resting the resting the resting	15 resting 15 resting 15 resting 15	resting 115 resting 115 rest

4.8.5 TABLE: Lith	nium coin/button cell batteries i	mechanical test result	N/A
Test position	Surface tested	Force (N)	Duration force applied (s)
18 115 Testine 115 Testine 115 T	esting US rescing US resting US resting US rest	10 12 Testing 12 Testi	isting Its resting Its
ting 115 resting 115 resting 20	Testing ITS resting IS resting IS	and the testing the rescue the testing the testing the	Testing ITS Testing I
Supplementary informatio	nts resting 15 resting 15 resting 15	restine ITS restine ITS restine ITS restine	US Testine US Testin

5.2	5. " Ju. J. J. Ve. " Ju	. T. J. S. 2200 No. 16	electrical energy s	Calloco 162, 104, 113	resting 115 resting 1	1 7et 100 1	To Tes Pine In
5.2.2.2 ·	- Steady State	e Voltage and C	urrent conditions				
		Location (e.g.		F	Parameters		
No.	Supply Voltage	circuit designation)	Test conditions	U	I	Hz	ES Class
		designation)		(Vrms or Vpk)	(Apk or Arms)	112	
Tring 115	240V	Primary	Normal	Testing 275 Testing 1	S Testine The Testine	1 15 Testine	The restring
Testing 17	5 Testine 115 Tes	ciurcuit	Abnormal	15 restine 115 restine	The rest in The rest	108 175 (cet	ES3
15 (restine 115) restine 115 115 restine 115 restine 115 115 restine 115 restine 115 15 restine 115 restine 115	15 resting 15 15 resting 15 18 15 resting 15 19 15 resting 15 19 15 resting		Single fault – SC/OC	to teaching the te	ting The cost ing the	resting IIS ( resting IIS ( resting IIS) resting IIS	
2.05 105 1	240V	L/N to plastic	Normal	4.95	anites of the sector	15 Testine 1 15 Testine 1	15 resting 17 15 resting 1 15 resting
$\begin{array}{c} e_{1}(1) \\ e_{2}(1) \\ e_{3}(1) \\ e_{3$	Testing Its Test	enclosure	Abnormal	5.20	215 Testine 215 Testin 215 Testine 215 Testin 215 Testine 215 Test	108 175 765 10	ES1
	15 Testing 15 15 Testing 15 15 Testing 15	resting ID resting resting ID resting resting ID resting	Single fault – SC/OC		108 115 Testine 115 Te 108 115 Testine 115 Te 108 115 Testine 115 Te 108 115 Testine 115	sting Its re- esting Its re- resting Its r	cins 215 rest sectors 215 res resting 215 res



estion 115 Test	EN IEC 62368-1	to reacting the re	ne 115 Testine
Clause	Requirement	Remark	Result

		Location (e.g.			Parameters	3		
No.	Supply Voltage	circuit designation)	Test conditions	Capacitanc		Upk (V)	ES Class	
425 Fee	raine IIS rescher Ing	15 Test the 215 Test	Normal	et ins ITS Testing I	15 Test int 15 Tes	ting 115 Testing 1	15 Testine 215	
ing TL	resting 215 resting	115 Testing 115 Te	Abnormal	resting 215 resting	as the restrict of	Testing Ins Testing	The resting	
stins 1 iesting 1 resting resting	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ting 115 Testing 115 eting 115 Testing 115 eting 115 Testing 1 esting 115 Testing 1 resting 115 Testing 1	Single fault – SC/OC	1) <u>resting 115 res</u> 1) <u>115 resting 115 res</u> 4 <u>115 resting 115 re</u> 11 <u>115 resting 115 r</u>	the line list restine line list restine list restine list restine	10 100 100 100 10 100 10 100 100 100 10 100 10 100 100 100 10 100 10 100 100 100 100 100 10 100 100 100 100 100	the LTS result the LTS result actual LTS result actual LTS result est me LTS result of the LTS result	
5.2.2.	4 - Single Puls	es		<u>, 107 - 1776 - 1776 - 1776 - 1776</u>	<u>- X 67 - 3 69 - 9 491 - 8 67 - 3</u>	<u>2006 (I.V. IVE - 2006 (I.V. 1</u>		
N. 1 -	Supply	Location (e.g.	<b>T</b> = ( , , , , , , , , , , , , , , , , , ,		Parameters	3		
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Clas	
- Ceerly	18 115 105 108 175	resting 1/2 lesting	Normal	12 15 185 100 15	Lesting Sis Lesting	NE 15 TESTINE 15 TE	100 100 115 100	
15 100 100	ting 175 Testing 7.7	B Testing 115 Testi B Testing 115 Testi	Abnormal	al me LIS reschant LIS	10 (50, 108 112 162	100 113 100 100 113	Testing LIS	
175 175 195 175 198 175 198 175	tes ins ins to resting resting to resting 5 resting to resting 5 resting to rest	ETS resting 105 re 105 resting 105 re 105 resting 105 re 105 resting 105 resting 105 re	Single fault – SC/OC	Testing IIS resting resting IIS resting resting IIS resting	115 Testine T5 115 Testine T5 116 T5 Testine T5	105 108 115 105 105 108 105 105 115 105 105 5 105 108 115 105 105 105	15 Testing 15 Testing	
5.2.2.	5 - Repetitive F	Pulses		1.715 50 50 1135 555	100 310 200 500 8	TA BUG THE THE YES	<u></u>	
	Supply	Location (e.g.			Parameters			
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class	
308 173	Stephing In Lean	18 213 785 185 118 213 108 213 785 785 118 213	Normal	Lesting No lest	108 215 100 108 215	5 resting 115 resting	no Its resum	
resting	15 resting 25 r	storing 115 resting 1 esting 115 resting	Abnormal	15 restine 15 res	CINE IN TESTING	10 Test 10 10 10 10	ing The Lost	
15 Test	ne 115 restine 115 Los 115 restine 115 Sine 115 restine 1 Line 115 restine	Testing 15 resting resting 15 resting 15 resting 15 resting 15 resting 15 rest	Single fault – SC/OC	ne 115 restine 175 the 115 restine 175 stine 175 restine 17 the 115 restine 17	Testine IIS Test Testine IIS Test S Testine IIS Test S Testine IIS Test S Testine IIS Test	118 175 restine 175 118 175 restine 175 118 175 restine 175 118 175 restine 17	Testing ITS TO	
Test (	Conditions:	and The Lesting The L	esting ITS resting ITS	Testing 115 Testing	R LTS Testine LTS	Testing IS Testing	115 Testine	
Norm	al –	ting 12 lesting 12	Testine ITS Testine I	In resting 215 rest	ting ITS resting I	15 resting 115 rest	the LIS restin	
Abno	rmal -	resting 215 resting	215 Testing 215 Testin	ne LIS resume LIS re-	lesting 115 lestin	1 215 Testing 215 Te	resting 115 res	
Supp	lementary inform	mation: SC=Sho	rt Circuit, OC=Sho	rt Circuit	S Testing 219 Test	LINE TIS Test INE LIS	Testine 215	



sting The Les	SLING IT	5 resting The resting The re	EN I	EC 62368	The rest	ine Nie Leerin	ne 175 Testa	INS 215 TESCIN	ne 115 Testine
Clause	Re	quirement	Testine Ins Test	seins 215 Test	Rema	ark	STINE LIS TES	Sing The Les	Result
5.4.1.4, 6 9.0, B.2.6		TABLE: Temperatur	re measurem	nents	resting 15 resting 1 resting 1 5 resting 1 5 resting	Testing IP S Testing IIS IS Testing II IS Testing I IS Testing I	Testing The Testing The Testing The Testing The Testing The Testing The	Testing IN Testing IN To resting IN 15 resting I 15 resting I 15 resting I	
sting 175 Tes	Silve T	Supply voltage (V)	entropy top top to	: 10	)V/50Hz	240	)V/60Hz	10% 175 185 th	as T
Testing 175	Testins Testins	Ambient T <sub>min</sub> (°C)	Lest the The Les	: 24.2	25.0	24.6	25.2	stine The Test	1.00
15 Testine	15 Test	Ambient T <sub>max</sub> (°C)	Preservine Dis	: 24.5	25.0	24.9	25.3	Testing 175	105
Maximum	n meas	sured temperature T of	part/at:			T (°C	;)		Allowe d T <sub>max</sub> (°C)
Power ca	ble	215 resting 215 resting 215	Testing In res	41.2	53.	5 29.8	34.1	sting the tes	80
Outside o	of the E	Enclosure	IS resting IS	56.2	48.	5 32.7	48.3	Testine ITS	80
1 1. Car 10 2010		osure	Ing The Lest ting T	54.2	41.2	2 41.3	41.8	TS Testine 1	Ref.
CE3 capa	acitor	5 1051 104 15 105 108 15 105 5 1051 104 15 105 105 105 105 105 105 105 105 105	stine 215 Testine	41.2	65.0	0 65.0	65.2	15 restin	80
Output	Test Ing	12 105 105 108 12 105 105 108 12 15 105 105 108 12 105 105 108 115	resting 15 rest	54.2	41.3	2 41.3	41.2	stills 215 Test	120
PCB	is result	ns 115 restine 115 restine 1	15 resting 115 r	54.4	41.3	3 54.2	54.7	resting The	130
Transform	ner sk	eleton	ne The Lest me The	75.9	65.2	2 54.2	75.1	15 Leering Th	120
Transform	ner co	resting 215 resting 115 rest resting 215 resting 115 rest	ting 115 resting	54.8	54.2	2 41.2	56.9	E Testing	120
capacitor	reting 1	15 testine 15 testine 15	rescine 275 resci rescine 275 resci	48.3	73.:	2 65.3	58.8	ing The Leet	80
U1 stine 11	5 Testing	as The resting The resting The	15 restine LIS re	54.2	54.	5 54.5	54.9	est ine ITS Te	80
A 75 A 76		information:	The Leaderne Ne	Testing 115	resting Th	S Testins ITS	Testing 175	Testing Th	Test ins 215
Tempera	ture T	of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation n class
estine the re	escine 17	15 resting the resting the	189 1115 115 185 115 185 1	INE 215 Testin	112 175 7231 1112 175 723	ing 215 Test	THE TTS TEST	The Sta Lear	Ins The Test
Supplem	entary	information: N/A	Testine 212 Te	estime 212 Tes	LINE TIS TO	iestine 215 Te	estine 212 Te	estine 215 Te	Sting 113 Tes

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics N/A						
Penetration (mm)	resting 15 resting	15 105 108 15 108 115 105 -				
Object/ Part No./Material	Manufacturer/t rademark	T softening (°C)				
10 15 rest in 15 rest	ins The rest ins Ins	resting The resting The resting The resting the resting the				
supplementary information:	resting US resting 1	The rest into the rest into the treating the rest into				

5.4.1.10.3 TABLE: Ball	pressure test of thermoplasti	CS The rest the The rest the The tes	sting The Lesting The Los Log The The
Allowed impression diamet	er (mm)	: ≤ 2 mm	Testina IIS Testina
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression diameter (mm)
Transformer bobbin	See tabel 4.1.2	15 Testing 15 125 10 LTS Testing	15 resting 11.0 sting 15 rest
Plastic enclosure	See tabel 4.1.2	125	ting 15 resting 13 resting 15
Supplementary information	stine 115 restine 115 restine 115 restine 115 restine 115 restine 15 restine	stine The restine The restine The	resting 15 resting 115 resting 115



resting The Lest	EN IEC 62368-1	5 resting 15 resting 15 resting 15 resting 15 resti	ing 115 Test ing
Clause	Requirement	Remark	Result

5.4.2.2, TABLE: Minimum Clearances/Creepage distance 5.4.2.4 and 5.4.3							the Tepford L 215 Tepford L 115 Testing 115 Testing 115 Testing 115 Testing
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) <sup>1</sup>	Required cl (mm)	cl (mm) <sup>2</sup>	Required <sup>3</sup> cr (mm)	cr (mm)
Different polarity of L/N (before fuse)	340	240	<30	1.3 est	2.85	2.6	2.85
Different polarity of L/N to plastic enclosure	340	240	<30	3.0	>6.0	5.0	>6.0
Primary parts to secondary parts of transformer	340	240	<30	3.0	6.76	5.0	6.76
Trace between terminals CY1	340	240	<30	3.0	7.14	5.0	7.14
Supplementary information: Note 1: Only for frequency above 3 Note 2: See table 5.4.2.4 if this is b Note 3: Provide Material Group		electric st	rength test	15 rest ine ris 15 rest ine ris 15 rest ine ris 15 rest ine ris 16 ris rest ine 16 ris rest ine 16 ris ris rest ine 16 ris ris rest ine 16 ris ris rest ine 16 ris ris rest ine	resting 15 resting 16 5 resting 16 15 resting 17 15 resting 15 resting 18 15 resting 18 15 resting	een tille 115 teen teen tille 115 teen tost tille 115 teen tost tille 115 teen tost tille 115 teen 115 teen tille 115 to 115 teen tille 115 115 teen tille 115 115 teen tille 115 115 teen tille 115	ne TS res tine TS re stine TS re set ine TS re rest ine TS rest ine TS rest ine TS rest ine T S rest ine T

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage         P						
The resting 1	Overvoltage Category (C	LINE LIS TO STORY INE US INSTITUTE LINE L					
AN TIS TESTID	Pollution Degree:	Pollution Degree:					
Clearance	e distanced between:	Required withstand voltage	Required cl (mm)	Measured cl (mm)			
L to N	5 Testins US Testins US Testins	2500V	ting 175 1.5 ins 175 rest	15 15 10 10 × 10 × 10 × 10 × 10 × 10 × 1			
Primary a	nd secondary wire	2500V	100 100 3.0 stind 15 1	>4.5			
Suppleme	entary information:	ting 15 resting 15 resting 1	To reaching 175 resting 175	resting 15 resting 15 resting			

Test voltage applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No	
estime The rest ine the restine The restine the the	sting 12 testing 12 test	a 115 restine 115 restine	15 resting 15 resting 15 resting	
5 rest 100 15 rest 100 115 rest 100 115 rest 100 115 rest 100 115	Testine LIS Testine LIS Tes	sting 215 testing 215 test	a lip teer ing its resting its resting its rest	
115 Testing 115 Testing 115 Testing 115 Testing	The realing The Les realing The	Testine LTS Testine LTS Te	ating 15 resting 15 resting 15	
Supplementary information:	ng 115 resting 115 resting the 115 resting 115 resting sting 115 resting 115 resting sting 115 resting 115 resting	15 resting to resting US 15 resting to resting US 25 resting US resting U 15 resting US resting U 15 resting US resting U	Testing To resting to	



restine ITS rest	108 175 res 108 175 res 108 175 res 108 175 res 108 175	N IEC 62368-1	resting 125 resting 125 resting
Clause	Requirement	Remark	Result

5.4.4.5 c) 5.4.4.9	15 10 175 765 1110 175 765 110 175 765 100 175 100 175 765 100 175 765 100 175 765 100 175 765 100 175 765 100 175 765 100 175 765 100 175 765 100 175 765 100 175 765 100 175 765 100 175 765 100 175 765 100 175 765 100 175 100 100 175 100 100 175 100 100 100 100 100 100 100 100 100	sting TO resting To esting TO resting T resting TO resting	5 restine 115 rest 15 restine 115 rest 15 restine 115 res 15 restine 115 res	ting TIS reacting TIS of sting TIS reacting TIS esting TIS reacting TIS esting TIS reacting TIS	105 105 105 105 105 105 105 105 105 105
Distance through insulation di at/of:	Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
Plastic enclosure	340	<30	See table 4.1.2	0.4	2.14
Insulation tape	340	<30	See table 4.1.2	2layers	2 layers

5.4.9 TABLE: Electric strength tests	Les March Les Versehurg Les Ve	Carl and Seat Carl and Seat	TTS TEALING DP TE
Test voltage applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functional:	eethe 175 resting 215 resting	The reaction the the reaction the	Testing ITS Testing Testing ITS Testing
Between L and N (Fusen F1 opened)	AC	2500	No
Basic/supplementary:	The resting The resting The resting	sting IN Lesting IN Lesting	TTS TESTING TTS TE
15 resting 15 resting 15 resting 15 resting 15 resting 15 rest	ing the leasting the less the the	Testing ITS resting 115 rest	ing ITS resting ITS
Reinforced:	erine 175 restine 175 restine 1 erine 175 restine 175 restine	TS rest ine US rest ine US I	resting ITS resting
L&N to output	AC AC	4000	S Test Int No. Test
L&N to plastic enclosure (with metal foil)	Testing IT AC ING ITS TES	4000	No
Transformer primary and secondary	AC and the treating AC	4000	No
1 layer insulation tape of transformer	AC TO AC	4000	No
Routine Tests:	est ind 175 rest ind 175 rest ind	15 Testine 25 Testine 25	Testing The Testing
estimation to resting 15 resting 15 resting 15 resting 15 resting 15	5 125 the 115 restine 115 rest	no 115 rest ine 115 rest ins 1	15 Test ine 115 Test
Supplementary information:	The set was the set of the set of	and an and the set of an and	To The street and the



serios Its rest	EN IEC 62368	3 1 15 resting 15 resting 1	5 Testing 115 Testing 115 Testing
Clause	Requirement	Remark	Result

5.5.2.2 TABLE: St	ored discharg	je on capacito	ors	the It's reacting It's reacting	N/A
Supply Voltage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification
1 15 tostine 15 tostine 15	resting US Testin	NE TIS TESTINE TIS	Testing ITS Test	no 15 restine 15 restine	S Testing 15 Testing 15
and the resting the list resting to	Testing 115 rest	cine l'is testine l'	15 Testime 175 Te	sting 115 testing 115 testing	15 Testine IS Testine In
estine 115 restine 115 restine restine 115 restine 115 restine	115 Testing 115 T	lesting 15 lesting	AN THE LESSING THE	Test ing The Lest ing The Lest	time ILS restime ILS resting
Supplementary informat	ion:	15 Test 100 115 Tes	Line ITS Testine I	LES TESTING TIS TESTING TESTING	resting 115 resting 115 rest
X-capacitors installed for	r testing are:	LIS TESTING LIS	Testing INS Testing	s the reaction the testing the	5 resting 215 resting 215 ri 15 resting 215 resting 215 ri 15 resting 215 resting 215
bleeding resistor ration	ng: scine 115 Test	Ing ILS Lesting IL	5 Test ine 175 Test	ting 115 Testing 115 Testing	The resting 15 resting 15

□ ICX:

Notes:

A. Test Location:

Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth

B. Operating condition abbreviations:

N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition

Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
estime 175 restine 175 restine 175 restine 175 re	estine 115 testine 115 test	LINE IN TESLINE IN TESK	ing ITS Testing Ins ITS T	stime US testine US
5 resting 115 resting 115 resting 115	5 125 the 115 125 the 115 15	lesting 115 resting 125 re	scins 12 restins 12	Testing ITS Testing T



estine Its rest	EN IEC 62368-	The resting The resting The rest	ns 115 Testins 115 Testing
Clause	Requirement	Remark	Result

5.7.2.2, 5.7.4	TABLE: Earthed accessible cond	uctive part	N/A
Supply vol	tage	Test the TS test t	T.
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	(mA)
estine Tis Len	201 113 113 128 118 115 128 118 115 128 118 115 128 118 115 281 118 115 1281 118 115 1281 118 115 1281 118 115 281 118 115 1281 118 115 1281 118 115 1281 118 115	tes, tim 1/2 testing 1/2 test tim 1/2 test tim 1/2 test tim 1/2 test tim test tim 1/2 test tim	The restine Its restin
TESLINE INS		5 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	ine 1/5 restine 1/5 res
The Test ing I	5 rest into 115	the rest in the re	esting The Lip Lesting The
ing 275 Testini ing 275 Testini	115 Test 118 115 Test 118 115 Test 118 115 Test 118 115 Test	tine 15 real no 15 real ind 15 real ind 15 real ind 15	Testing Its Testing I
tins INS Test	the IN restine IN restine IN restine IN restine IN	100 110 115 100 115 100 115 100 115 100 115 100 115 100 115 100 115 100 115	115 Test INK 115 Testing
Testing The The	25, 108 115 125, 108 115 125, 108 115 125, 108 15 125, 108 15	5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ne ITS Teatine ITS Teat Ine ITS Teatine ITS Teat
15 resting 17	5 Testing 215 Testing 15 Testing 25 Testing	The reading the reaction of the reading th	and The rest ine The

Supplementary Information:

Notes:

[1] Supply voltage is the anticipated maximum Touch Voltage

[2] Earthed neutral conductor [Voltage differences less than 1% or more]

[3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3

[4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.

[5] (\*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

6.2.2	Table: Electrica	able: Electrical power sources (PS) measurements for classification					
Source	Description	Measurem	ent	Max Power after 3 s	Max Power after 5 s* <sup>)</sup>	PS Classification	
		Power (W)	:		4.96		
Output terminal	Normal	V <sub>A</sub> (V)	:		4.96	PS1	
		I <sub>A</sub> (A)	:		1		
		Power (W)	:				
All primary circuit	Normal	V <sub>A</sub> (V)	:			PS3 (declared)	
		I <sub>A</sub> (A)	:				



estine Its rest	EN IEC 62368-	The resting the resting the rest	ting 215 Testing 215 Testing
Clause	Requirement	Remark	Result

	Open circuit voltage After 3 s	Measured r.m.s	Calculated value	Arcing PIS?
Location	(Vp)	(Irms)	(V <sub>p</sub> x I <sub>rms</sub> )	Yes / No
104 112 122 104 112 122 108 112 122 122 104 112 122 123 104 113 125 125 104 113 125 125 104 115 125 125 125 125	10 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10	6 The Lesting The Lesting	115 Test Ine 215 Test Ine 21	15 Test ins 275 Testin
resting The lessing The lessing The line The lessing the line the line the lessing the line the line the line line line line line line line lin	sting the testing the test	108 213 783 108 115 783 108 213 783 108 215 783 108 213 785 785 108 215 783	ins 115 Testing 115 Testing	115 Testina ITS Te
15 resting 15 resting 15 resting 15	Le clue IL Le lue IL	resting ITS resting ITS	restine 115 restine 115 res restine 115 restine 115 res	aline 215 Testine 215
Supplementary information:	15 Testing 15 Testing 15 15 Testing 18 To Testing 1 15 Testing 18 To Testing 1	15 restine 15 restine 17 15 restine 15 restine 1 15 restine 16 restine 1	S reaching US reaching US 15	resting 15 resting 2 resting 15 resting 2 resting 15 resting
An Arcing PIS requires a minimu	im of 50 V (peak) a c		US is established when	the product of
he open circuit voltage ( $V_p$ ) and				

5.2.3.2 Table: Dete	ermination of Potentia	al Ignition Sour	ces (Resistive F	P(S) 15 Test ins 15 Tes	ins In rest
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
All internal circuits/ components	15 Testing 15 Testing 15 15 Testing 15 Testing 15 16 Testing 15 Testing 15 18 Testing 15 Testing 15 18 Testing 15 Testing 15	Tearchine 215 Tearchine 5 Tearchine 215 Tearchine 15 Tearchine 215 Tearchine 15 Tearchine 215 Tearchine	105 Testina 115 Tes 105 Testina 115 Te 105 Testina 15 105 Testina 15 105 Testina 15 105 Testina 15	time the testime the treatener to the testime the treatener the treatener the treatener to	Yes

Supplementary Information:

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

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

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



estine 115 Testin	EN IEC 62368-1	5 reacting the resting the reacting the reacting the resting	8 215 Testing
Clause	Requirement	Remark	Result
LIS restine LIS	ces the 12 test in 12 test in 15	the 15 restine 15 restine 15 restine 15 restine 15 restine 15	Testine LIS TO

Description	Values	Energy Source Classification
Lamp type	realing 15 resting 15 resting 15 resting 15 rest	_
Manufacturer:	15 125 108 115 105 118 115 125 118 115 125 118 115 1	_
Cat no:	15 Testing ITS Testing US Testing US	—
Pressure (cold) (MPa):	the TP resting TP resting TP resting	15 Testing 15 MS_100 15 Testing
Pressure (operating) (MPa)	resting the resting the resting the test	115 Test 118 MS_est 118 215 Test
Operating time (minutes):	15 resting 15 resting 15 resting 15 resting 15 r	_
Explosion method	17 182 182 108 17 182 108 17 182 108 17 182 108 17 18 18 18 18 18 18 18 18 18 18 18 18 18	
Max particle length escaping enclosure (mm).:	ing 115 resting 115 resting 115 resting	MS
Max particle length beyond 1 m (mm)	est one the restine the restine the restine the rest	MS_
Overall result	S Test ine IS rest ine IS rest ine IS re	estime ITS restine

U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
264V/50Hz	0.05	testing The test	13.2	115 100 100 115 10 115 100 100 115 10	estine F1 rest	Cine 205 Testin	Max normal load
264V/60Hz	0.05	15 105 106 115 10	13.2	ting 115 testing 115	Test F1 105	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Max normal load
240V/50Hz	0.06	14 215 700 (108 215 108 215 700 108 215	14.4	resting 15 resting	15 F1	S Testing 175	Max normal load
240V/60Hz	0.06	Sting 115 Testing	14.4	15	08 175 F1est 108	115 Test 108 1	Max normal load
100V/50Hz	0.12	Testing TIS Test	12.0	15	otime F1 Test	the TR Testing	Max normal load
100V/60Hz	0.12	15 180 111 115 180	12.0	Une 115 restine 115	Test Fallis	estine DS Test	Max normal load
90V/50Hz	0.15	ne Lis restine Lis	13.5	restine 215 restine	TTS TE FILME UTS	5 Test ing 175	Max normal load
90V/60Hz	0.15	ting IIS resting	13.5	Testing the testing	F1 stime	115 10- 1110 115	Max normal load



estine 115 Testi	EN IEC 62368-1	5 123 tine 215 123 tine 215 128 tine 215 123 to 123	ne 215 Testine
Clause	Requirement	Remark	Result
The testing The	reating 115 reating 125 reatin	the 15 restine 15 restine 15 restine 15 restine 15	Testine LIS Te

B.3 TA	BLE: Abnorm	al operating	condition t	ests	15 Test in	as The res	STUDE IN TEST	JUE 12 18 18	N/A
Ambient temper	ature (°C)	108 115 125 108 1 5 108 115 125 108	15 100 100 100	Testine 19 Testine	175 rest 175 rest	108 115 108 115 108 115	Testing The Le	rescing The Lie	rest
Power source for	or EUT: Manuf	acturer, model	/type, outpu	ut rating	118 113 TO	See p	age 2	Testine (1)	5 TP
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fu currer	ise nt, (A)	T-couple	Temp. (°C)	Observation
						-			
Supplementary Test table is pro Thermal burn in condition for a C	vided to recor jury. Column	"Abnormal/Fau	ult." Specify	if test c	onditio	n by in	dicating "A		

B.4 TAE	BLE: Abnorm	nal operating o	condition t	ests	175 (es)	LINE L'E	Testing The L	Certine LIS I	rest ins 115 Pesting
Ambient tempera	ature (°C)	Testime 215 Testin	an a	15 105	LINE 275	25°C	if not menti	oned	
Power source for	a fine and	12 1 1 1 25 1	C A LOW LOOK	d other	1	See p	age 2	TTS Testing	115 <u>–</u>
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fu currer	ise nt, (A)	T-couple	Temp. (°C)	Observation
R1	S-C	240V/50Hz	<1s		-	-			no hazard, no broken
C1	S-C	240V/50Hz	<1s		-	-			no hazard, no broken
U1	S-C	240V/560Hz	<1s		-	-			no hazard, no broken
C6	S-C	240V/50Hz	<1s		-	-			Output shutdown, no hazard, no broken n
R5	S-C	240V/50Hz	<1s		-	-			Output shutdown, no hazard, no broken
Transformer( Pi n A to Pin B)	Overload	240V/50Hz	1 hours		-	-	Туре К	T1 winding : 115.2, T1 bobbin: 113.1	no hazard, no broken



ting ITS Test	EN IEC 62368-1	5 resting 15 resting 15 resting 15 resting 15 resting	The Testing
Clause	Requirement	Remark	Result
5 102 108 112 V	les 100 115 les 100 15 les 100 1/5 les 100 1/5 les 100 1/5 les	tup I.L. Les The T. Les Pup I. Les Plup I. Les	Allo The Star

Annex M	TABLE: Batt	eries	ing 115 lesting 1/2	is restine the	Testine 175	15 Testine 115	Testins IN	Testing 175	N/A
The tests of	Annex M are	applicable	only when app	propriate b	attery data	is not ava	ilable	Ins resting	15 resting
Is it possible	to install the	battery in a	reverse polar	ity positior	1?	ment in les in	B The Testin	of The Lest of	LE restin
<u>,</u>	Non-re	echargeable	e batteries		F	Rechargeal	ole batteri	es	
	Disch	arging	Un-	Cha	rging	Disch	arging	Reversed charg	
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during norm condition	4012 1929 5/11	15 Testing (1) 15 Testing (1) 15 Testing 15 Testing 15 Testing 15 Testing 15 Testing	Contractions of the second sec	tine Lis Tes stine Lis Tes settine Lis Te festine Lis T festine Lis	tine 115 Test stine 115 Test stine 115 Test rest ine 115 Te Test ine 115 Te	cins IIS rest stins IIS rest stins IIS rest restins IIS re restins IIS r	ing The test	ns US least Lus IS reat et ins IS reat est ins IS rea reating IS reat reating IS	ns 1.15 testi ins 1.15 test stins 1.15 test estins 1.15 te cstins 1.15 te
Max. current during fault condition	t estime the the	sting [15 rest scing [15 rest escing [15 res resting [15 res resting [15 res resting [15 res resting [15 res	the the tip test	15 Testing 15 Testing 15 Testing 15 Testing 18 15 Testing 10 15 Test	15 Testing 15 Testing 15 Testing 15 Testing 15 Testing 15 Testing 15 Testing	115 Testing 11 115 Testing 1 115 Testing 1 115 Testing 115 Testing 115 Testing	5 Testine II 5 Testine I 15 Testine I 15 Testine 15 Testine 15 Testine	Contracting Contra	Testins IN 5 Testins I 15 Testins 15 Testins 15 Testins 15 Testins
Test results:	Testine ZI's Testi	ing The Leasting	1 15 Testine 115	resting 11	Tesching 115	Testins Lins	est the Line	les Grie Lie	Verdict
- Chemical l	eaks	estine The rest	cine 215 rescue	US resting	15 Testing	15 Test ins It	Testine 11	P Test ins IS	100 100 100 100 100 100 100 100 100
- Explosion	of the battery	Testine Ins	resting 115 resting	ing The Lestin	NE CIS restin	ne 115 restine	215 Testing	A THE TESTING	175 Testins
- Emission c	of flame or exp	ulsion of m	olten metal	sting 115 ree	stime ITS Test	tine ITS rest	INS ITS TEST	INB TTS TEST	ring 115 real
- Electric str	ength tests of	equipment	after completi	on of tests	Testing 115	Testine IIS T	esting 275 T	resting LIS to	esting 15 T
Supplement	ary informatio	n: 108 115 1091	and the resting t	15 100 100 1	15 resting 11	TS Testing IT	S TESLINE LTS	5 restine Th	5 Test Ine 17

that The restrict 15	Cast man 15	1050 mg 15	and the states in	15 10 10 10 10 10 10 10 10 10 10 10 10 10	the rest which the rest of	NE 115 125 105 105 15	24 201 200 - 27 201 200 - 10
resting 115 resting 115	5 Testing LT	to testine 15	Testine Ins result	ing 115 resting	LIS resting LIS rest	othe The restine The	Testing IN Testing
	le: Addit teries	tional safe	guards for equ	uipment cor	ntaining seconda	ary lithium	N/A
Battery/Ce	ell	Test	conditions		Measurement	Observation	
No.				U	I (A)	Temp (C)	
5 restine 215 restine	115 Testin	Normal	The resting The re	STIDE LIS TEST	ing The Lesting The	esting ILS resting	The restine Ins resting Ins resting
The restine The rest	the LIS TES	Abnormal	Ins 215 Testing 215 Uns 215 Testing 215	105, 108, 175 Le	Cesting Its resting It	15 resting 215 resting 215 resting	the the restine the test
ting The Lesting The Lip to	lesting The	Single faul	t –SC/OC	The restine pro	5 Test ins 275 Testins	B LIS rest line LIS re	esting 115 resting 115
estine 215 testine 215	S TESCINE 115	Normal	resting ins rest	Ine The resting	TIS resting TIS rest	the lite restine lite	Testing 15 Testing Testing 15 Testing Testing 15 Testing
S Testine LTS Testine	LTS Testing	Abnormal	The resting the ter	sting 115 Test	INE TS TESTINE 215 T	Posting 115 Testing	Its resting Its resting
The restine The rest	ine LTS Test	Single faul	t – SC/OC	Testine ITS Te	testine 215 testine 215	resting ITS rest	ing the test ing the test
Supplementary II	nformatio	neting The Le	estine ITS restine	115 105 104 115	5 Testing ITS Testing	LIS Testine LIS Te	tine 115 restine 115
Battery identification	Ti	ging at <sup>owest</sup> °C)	Observa	ation	Charging at T <sub>highest</sub> (°C)	Obs	ervation
115 Testine 115 Test	10 275 Test	the The Test	ine 175 restine 215	Testine 215 1 For testine 215	Testing 115 Testing 1 Testing 115 Testing 1	15 lesting 15 lest	The The Lesting The Le
INE 215 TESTING 215 TE	is cine IN P	restine 215 Te	estine 115 restine	LTS restine T	5 Testing The Testing	1 15 resting 15 re	sting 12 testing 12 testing 12 testing 13
Supplementary li	nformatio	n resting 175	Testing Its rest	LUE LTS TEST LINE	115 Testine 115 Test	ing 215 resting 215	Testing Ins Testing 5 Testing ITS Testing



estine Its rest	EN IEC 62368-1	215 Testim
Clause	Requirement	Result
LIS resting LIS	see the D2 less th	scine Lis r

Annex Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)						
Note: Mea	sured UOC (V) with all loa	ad circuits disco	nnected:	Testing IS Testin	nd 115 resting 115	Test ine ITS Test	
Output	Components	U <sub>oc</sub> (V)	I <sub>sc</sub> (A) S (VA)				
Circuit			Meas.	Limit	Meas.	Limit	
Output	Normal	5.20	1.15	stine 158 estine	5.5	100	
Output	C4 SC	Test in the rest	me the reaction the	Testing 85 Testin	The le O in the	100	

Part/Location	Material	Thickness	Force	Test Duration	Observation
		(mm)	(N)	(sec)	
Top enclosure	Plastic	Min.1.5	100	INE LIS TES INE LIS TE	No damaged
Side enclosure	Plastic	Min.1.5	100	Testing LTS 5 resting LTS	No damaged
Bottom enclosure	Plastic	Min.1.5	100	5 Testing 55 Testing	No damaged

Т.6, Т.9 ТАВ	LE: Impact tests	15 Testine In Testi 15 Testine In Test	108 115 185 108 115 12 108 115 185 108 115 1	10-21 10 15 10-21 10 15 10-21 10 15 15 10-21 10 15 15 15 15 15 15 15 15 15 15 15 15 15
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation
sting 115 resting 115 r	esting 115 resting 115	resting 215 resting 1 resting 215 resting 1	15 Testine 215 Testin	and the second the treatment of the trea
Testing ITS Testing IT	S resting 25 resting 2 S resting 25 resting	15 Test int 215 Test in	08 115 Testins 115 Tes	the US restrict 15
Supplementary info	ormation:	15 Testine US Test	sting the resting the	783 time 175 rest ins 175 rest ins 1.15 rest ins 175 rest



estine ITS rest	EN IEC 62368-1	ne 115 Testine
Clause	Requirement	Result
LIS resting LIS	res line 12 res line 15 res li	resting The List

Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation
Top enclosure	Plastic	Min.1.5	1000	No damaged
Side enclosure	Plastic	Min.1.5	1000	No damaged
Bottom enclosure	Plastic	Min.1.5	1000	No damaged

Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Completed sample	Plastic enclosure (for all sources)	Min.1.5	70	110 105 105 105 105 105 105 105 105 105	No damaged, the hazardous live parts cannot be touched



resting 115 rest	EN IEC 62368-1	5 resting 15 resting 15 resting 15 resting 15 resting	ing ILS Testing
Clause	Requirement	Remark	Result

## -Appendix 1: For requirements of European group differences.

ATTACHMENT TO TEST REPORT EN IEC 62368-1
EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES
(Audio/video, information and communication technology equipment Part 1: Safety requirements)
Differences according to EN IEC 62368-1:2020+A11:2020

The lessing	CENELEC C	COMMON MOE	DIFICATION	NS (EN)	ing The Lesting	115 resting 115 restin	11 15 Cestons
ng 16 testin the 16 testin sting 16 test		oclauses, notes 58-1:2014 are p		ires and annexes	s which are a	dditional to those in	tak [15] Test
CONTENT S	Annex ZA (n Annex ZB (n Annex ZC (ir	Add the following annexes:       Normative references to international publications with their corresponding European publications         Annex ZB (normative)       Special national conditions         Annex ZC (informative)       A-deviations         Annex ZD (informative)       IEC and CENELEC code designations for flexible cords					
15 Testing 15 US Testing 15 LIS Testing 1 & US Testing	<b>Delete</b> all the "country" notes in the reference document (EN IEC 62368-1:2014) according to the following list:						N/A
1,118, 1,125, 1,125, 1,125, 1,11 1,118, 1,15, 1,12	0.2.1	Note	1	Note 3	4.1.15	Note	and         115         Les         Les
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	
A TTS Testing	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	
sting 115 rest	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	
S Test Ing ITS S Test ing ITS TS Test ing ITS TS Test ing ITS a TS Test ing ITS a TS Test ing	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	
the 15 resting	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	ine 15 test in ine 15 test in scin 15 test scin 15 test
Testing ITS Te	For special r	national condition	ons, see An	inex ZB.	15 restine 215 h	resting 115 resting 115 resting 115 resting 115	N/A
A resting the start of the start start of the start of the start start of the start of	4.1.5 N.G. 100 4.14	wing note: use of certain subst ment is restricted w	276 J.J 166 - 1660	a state of the state of the state.	115 restine 15 ne 15 restine 15 ine 15 restine 15 ine 15 restine ine 15 restine testine 15 restine restine 15 restine restine 15 rest	5 testine 15 testine 15 testine 15 testine 15 testine 15 testine 15 testine 15 testine 15 testine 15 testi 16 15 testine 15 testi 16 15 testine 15 testi 16 15 testine 15 testi	N/A



51 106 275 TE	EN IEC 62368-1	The resting the rest the the	serving the les ling the les
Clause	Requirement	Remark	Result
4.Z1	Add the following new subclause after 4.9:	the 115 testine 115 testine	N/A
ne L'IS (rest) ine L'IS (rest) ine L'IS (rest) ine L'IS (rest) restine L'IS (rest) restine L'IS (rest) l'IS (restine L'IS) l'IS (rest) l'IS (rest	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. <b>mains</b> , 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):	estime 12 testime 12 testime 12 testime 12 testime 12 testime 13 testime 12 testime 12 testime 13 testime 12 testime 12 testime 14 testime 12 testime 12 testime 15 testime 12 testime 12 testime 12 testime 15 testime 12 testime 12 testime 12 testime 15 testime 12 testime 12 testime 12 testime 15 testime 12 testime 12 testime 12 testime 12 testime 15 testime 12 testime 12 testime 12 testime 12 testime 15 testime 12 t	
ne 115 rest in ine 115 rest in stus 115 rest estine 115 res rest ine 115 res rest ine 115 res	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;	estima fD resume from the D resume restima fD resume from the D rest restima fD restima fD rest for restima fD restima fD rest fD restima fD restima fD fD restima fD restima fD	
5 Testing 15 15 Testing 15 15 Testing 15 15 Testing 1 15 Testing 15 Testi	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;		C resting 15 resting 15 resting 15 To resting 15 resting 15 resting 15 To resting 15 resting 15 To resting 15 resting 15 To resting 15 resting 15 resting 16 15 resting 15 resting 15 re
S Testing US To Testing US US Testing US US Testing US Testing US Testing US Testing	c) it is permitted for <b>pluggable equipment type B</b> or <b>permanently connected equipment</b> , 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.	15 resting 15 resting 15 15 resting 15 resting 15 16 r5 resting 15 resting 15 16 r5 resting 15 resting 16 r5 resting 15 resting 16 r5 resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 rest 15 resting 15 rest rest rest 15 resting 15 rest rest rest 15 rest rest rest rest 15 rest rest rest rest 15 rest rest rest rest 15 rest rest rest rest rest 15 rest rest rest rest rest rest rest 15 rest rest rest rest rest rest rest rest	
2 estimation (15)	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for <b>pluggable equipment type A</b> the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	15 (estimate 15 (estimate 15 15 (estimate 15 (estimate 15 16 15 (estimate 15 (estimate 15 16 15 (estimate 15 (estimate 15 16 15 (estimate 15 (estimate 15 (estimate estimate 15 (estimate 15 (estimate (estimate 15 (estimate 15 (estimate 15 (estimate (estimate 15 (estimate 15 (es	1         1
5.4.2.3.2.4	Add the following to the end of this subclause:	215 rest int 25 rest int 15	N/A
S Testing II. IS Testing II. ITS Testing I	The requirement for interconnection with <b>external circuit</b> is in addition given in EN 50491-3:2009.	ind 15 resting 15 resting ting 15 resting 15 resting sing 15 resting 15 resting sting 15 resting 15 resting	15 restine 15 restine 15 15 restine 15 restine 1 15 restine 15 restine 15 restine 15 restine
10.2.1	Add the following to <sup>c)</sup> and <sup>d)</sup> in table 39:	testing (15 testing 15 test	N/A
sting 115 Tes	For additional requirements, see 10.5.1.	TS restine The restine The	cesting 115 resting 115 res



Test prise Prise	EN IEC 62368-1		
Clause	Requirement	Remark	Result
10.5.1	Add the following after the first paragraph:	the The les the The les the	N/A
ns 215 Test ins 215 Test stins 215 Test est ins 215 Test est ins 215 Test	For RS 1 compliance is checked by measurement under the following conditions:	esting 12 testing 12 testing 12 test testing 12 testing 12 testing 12 test testing 12 testing 12 test testing 12 testing 12 test	108 112 125 125 108 112 125 125 10 108 115 125 125 108 108 115 125 125 154 108 115 125 125 108 115 125 155 108 115 125 125 108 115 125 155 125 125 125 125 125 125 125 125 125
rest interpretente rest interpretente 15 rest interpretente 15 rest interpretente 15 rest interpretente 15 rest interpretente 15 rest interpretente 15 rest interpretente rest interpretente 15 rest i	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.	12 resting 12 resting 12 resting 12 resting 12 resting resting 12 resting 12 resting 12 resting 12 resting 12 resting 12 resting 12 resting 12 resting 12 r	1cs         1mb         1.5         1cs         1mb         1.5           1cs         1mb         1.5         1cs         1mb         1.5         1cs           1cs         1cs         1mb         1.5         1mb
S Testing 15 15 Testing 17 15 Testing 17 15 Testing	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	na TD resting TD resting T na TD resting TD resting Une TD resting TD resting the TD resting TD resting	To resting IN resting IN To resting IN resting IN To resting IN resting IN
AB TTS TESS THE THE TTS TEST THE THE TTS TEST THE TTS TEST STURE TTS TEST STURE TTS TEST	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm <sup>2</sup> , at any point 10 cm from the outer surface of the apparatus.	54 108 175 (55 100 175 100	<sup>46</sup> The Test time To Test time time The Test time To Test time time The Test time The Test time at time The Test time The Test at time The Test time The Test time The The Test time The Test test time The Test time Test time test time The Test time Test time test time Test test test test test test test test t
rest ing 15 rest ing 15 rest ing 15 rest ing 15 rest ing 15 rest ing 15 rest	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.	15 rest into 15 rest into 15 15 rest into 15 rest into 15 16 15 rest into 15 rest into 15 16 15 rest into 15 rest into 16 15 rest into 15 rest into 16 15 rest into 15 rest into 16 10 15 rest into 15 rest rest into 15 rest into 15 rest rest into 15 rest into 15 rest rest into 15 rest into 15 rest	5 (106 T) (106 T) (10 (10 (10 (10 (10 (10 (10 (10 (10 (10
estine TIS re restine TIS re testine TIS	For RS1, the dose-rate shall not exceed 1 $\mu$ Sv/h taking account of the background level.	5 restine 15 restine 25 15 restine 25 restine 25 25 restine 25 restine 25 25 restine 25 restine 25 25 restine 25	esting 15 testing 15 t
175 resting 17 175 resting 1 175 resting 1	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	and 1/5 Testing 1/5 Testing and 1/5 Testing 1/5 Testing ating 1/5 Testing 1/5 Testing	LIS testime LIS testime LI LIS testime LIS testime LI LIS testime LIS testime
10.6.1	Add the following paragraph to the end of the subclause:	resting 15 resting 15 rest resting 15 resting 15 rest 5 resting 15 resting 15 res	the The stine of N/A
restine 175 restine 175 restine 175	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	15 rest into 15 rest into 15 15 rest into 15 rest into 15 15 rest into 15 rest into 15 16 rest into 15 rest into 1 16 rest into 15 rest into 1	resting 15 resting 15 resting 15 resting 15 resting 15 resting 15 5 resting 15 resting 15
10.Z1	Add the following new subclause after 10.6.5.	ting 112 resting 112 resting	N/A
ting 115 rest	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	resting 115 resting 115 rest resting 115 resting 115 res resting 115 resting 115 res 2 resting 115 resting 115 res	the 15 testine 15 tests still 15 testine 15 tests still 15 testine 15 tests estine 15 testine 15 test the 15 testine 15 test
resting the the testing the transformer the testing the testing the testing the testing the testing the testing the transformer testing testing the transformer testing testin	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).	$ \begin{array}{c} \sum\limits_{i=1}^{n-1} \sum\limits\limits_{i=1}^{n-1} \sum\limits\limits_{i=$	100         115         7.05         116         115         7.05           15         7.05         116         115         7.05         116         115           15         7.05         116         115         7.05         116         115           15         7.05         116         115         7.05         116         115           15         7.05         116         115         7.05         116         115           15         7.05         116         115         7.05         116         115           15         7.05         116         115         7.05         116         115           15         7.05         106         115         7.05         116         115           16         115         7.05         116         115         7.05         116           16         115         7.05         116         115         7.05         116           16         115         7.05         116         115         7.05         116           16         115         7.05         116         115         7.05         116           16         115 <t< td=""></t<>
4 116 175 164 175 165 116 175 165 165 116 175 165 165 116 175 175 175 165 116 175 175 165 116 175 175 165 116 175 165 165 116 175 116 1	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	Testing To testing To testing To testing to the total the total to the total to the total	estime 1.5 (estime
G.7.1	Add the following note:	5 Testine 25 Testine 25 T	N/A
Testing ITS	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	The reacting Its reacting The REST reacting Its reacting The Institute reacting The reacting Its institute reacting The reacting I	120 108 113 125 125 118 115 1 15 1251 118 115 12 118 115 1 15 1251 118 115 15 100 118 115 15 1251 118 115 15 100 118 115



Clause	Requirement	Testing The Lesting The Lesting The Line The	Remark	Result		
17 100 100 110 110 110 110 110 110 110 1	2 162 108 12 162 108	The testing The testing The Lesting The Section The Section The Section The Section Se	Testina IN Testina IN Testina IN Testina IN Testin	The Testine I		
Bibliograp hy	Add the following	is the testing the testing the testing	15 resting 15 resting 15 resting 15 resting 15 res	N/A		
sting INS Test	We The des the the de	notes for the standards indicate	me the testine the testine the testine the	Lesting 12 Les		
resting 275 re	IEC 60130-9	NOTE Harmonized as EN 60	sting The Lesting The Lesting The Lesting	5 125 105 108 115 1 15 105 105 105 115		
In Testine US	IEC 60269-2	NOTE Harmonized as HD 60	Test in 115 rest in 115 rest in 15 rest in	B TTS Testing TT		
215 Testing 1	IEC 60309-1	NOTE Harmonized as EN 60	The rest into the rest into the rest into the rest	cine 17 restine		
the 115 restin	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.					
resting The Les	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.					
S Testine 15	IEC 60664-5 NOTE Harmonized as EN 60664-5.					
The resting I	IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).					
111 15 15 15 15 15 11 11 11 15 15 15 15	IEC 61508-1 NOTE Harmonized as EN 61508-1.					
	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.					
	IEC 61558-2-4         NOTE Harmonized as EN 61558-2-4.           IEC 61558-2-6         NOTE Harmonized as EN 61558-2-6.					
	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.					
	IEC 61643-21 NOTE Harmonized as EN 61643-21.					
	IEC 61643-311 NOTE Harmonized as EN 61643-311.					
	IEC 61643-321 NOTE Harmonized as EN 61643-321.					
Lis lesting Lis	IEC 61643-331 NOTE Harmonized as EN 61643-331.					
ZB	المحاج المعد المعم الحمام المعالي المحاج المعالي					
<b>2Б</b> 4.1.15	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)					
120 Teoring To T	Denmark, Finland, Norway and Sweden To the end of the subclause the following is added:					
	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. The marking text in the applicable countries shall be					
		paratets stikprop skal tilsluttes e ord som giver forbindelse til "	$ \begin{array}{c} a_{1} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	en un 175 res restin 175 res restin 175 res restin 175 res restin 175 restin 175 restin 175 restin 175		
TIS resume I a ITS resume me ITS resume me ITS resume	In <b>Finland</b> : "Laite varustettuun pisto	on liitettävä suojakoskettimilla vrasiaan"	2 10 10 100 10 10 10 10 10 10 10 10 10 10	ing IT resting sting IT resting esting IS resting esting IS resting		
sting 115 rest esting 115 rest resting 115 rest resting 115 res	In <b>Norway</b> : "Appa stikkontakt"	aratet må tilkoples jordet	106 115 res 116 115 res 106 115 res 106 115 res 116 115 106 115 res 106 115 res 106 115 res 106 115 res 106 116 107 108 15 res 106 116 15 res 106 175 res 106 105 108 105 res 106 106 105 res 106 105 res 106 105 res 106 106 106 106 106 106 106 106 106 106	Testing 115 Tes		
Testing The	In Sweden: "Appa	araten skall anslutas till jordat ut	tag" the rest in the rest in the rest in	The Trest int The		



serios 215 Tel	EN IEC 62368-1	15 resting 15 resting 15 re	es line 115 restine 115 resti
Clause	Requirement	Remark	Result
4.7.3	United Kingdom	chine 115 feet ine 115 feet ine effine 115 feet ine 115 feet ine effine 125 feet ine 115 feet ine feet ine 115 feet ine 115 feet ine	N/A
Ins Its Test	To the end of the subclause the following is added:	Test int IN resting IN rest	the ITS restine ITS restine
istine 25% restine 25% S restine 25% TS restine 25 25 restine 25 25 restine 25 25 restine 25 25 restine 25	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	5 reso into 15 rest into 15 15 reso into 15 rest into 15 15 rest into 15 rest into 15 16 r5 rest into 15 rest into 15 16 r5 rest into 15 rest into 16 r5 rest into 15 rest into 15 rest into 16 r5 rest into 15 rest into 15 rest into 16 r5 rest into 15 rest into 15 rest into 16 r5 rest into 15 rest into 1	
5.2.2.2	Denmark	resting the resting the less	N/A
SCIUS 215 Tes	After the 2nd paragraph add the following:	To resching the reacting the re-	254118 113 125 1254 118 115 1254 254118 113 125 1254 118 115 1254
Testing Its Stesting Its Ts testing Its Ts testing I Ts testing	A warning (marking <b>safeguard</b> ) for high <b>touch</b> <b>current</b> is required if the <b>touch current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	15 75 75 108 105 75 75 108 15 15 75 75 108 15 75 75 108 15 16 15 75 15 108 15 75 75 108 15 16 15 75 108 15 75 108 15 16 15 75 108 15 75 108 15 16 15 75 108 15 75 108 15 16 108 15 75 108 15	testing 15



100 115 1251	EN IEC 62368-1	The rest ing the rest ing the rest ing the rest	Situe The Les
Clause	Requirement	Remark	Result
5.4.11.1 and Annex	Finland and Sweden	The DS testing DS test	N/A
G G	To the end of the subclause the following is added:	resting the the resting the resting the rest	ing 175 Testin
estine 215 rest restine 215 rest restine 215 res restine 215 res	For separation of the telecommunication network from earth the following is applicable:	$ \begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & $	st ins 115 res es ins 115 res resting 115 res
TS Testing 115 115 Testing 115 215 Testing 115 8 115 Testing	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	2010 175 1estima (1) restima (15 1estima) 1010 175 1estima (15 1estima) (15 1estima) 1010 175 1estima (15 1estima) (15 1estima) 1010 175 1estima (1010) 1010 175 1estim	Testing ITS
ns 115 restine ine 115 restine stius 115 restin stius 115 rest	<ul> <li>two layers of thin sheet material, each of which shall pass the electric strength test below, or</li> </ul>	tend time (1) reactive (1) reac	8 [15] 1891 [18 18] 115 1891 [18 18] 115 1891 [19] 18] 115 1891 [19] 19] 116 115 1891 [19]
resting Vis 12 resting Vis 12 resting Vis 15 resting Vis 15 resting Vis 15 resting Vis 15 resting Vis	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	12 Loss true L2 L2	es ding 215 fe feating 215 fe resting 215 resting 215
6 15 16 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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		
sting 15 (cest esting 15 (cest cesting 15 cest cesting 15 cest cesting 15 cesting 15 cesting 15 cesting 15 cesting 15 cesting 15 cesting 15	• 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	5 Test ink US Test ink US Test ink US Test ink US Test 15 Test ink US Test ink US Test ink US Test ink US Test 15 Test ink US Test ink US Test ink US Test ink US Test 16 US Test ink US Test ink US Test ink US Test ink 16 US Test ink US Test ink US Test ink US Test ink 15 Test ink US Test ink US Test ink US Test ink 16 US Test ink US Test ink US Test ink 16 US Test ink US Test ink US Test ink 16 US Test ink US Test ink US Test ink 16 US Test ink US Test ink US Test ink	in the LIS rest into LIS rest resting LIS rest resting LIS rest resting LIS resting LIS resting LIS resting LIS resting LIS resting LIS
a 115 resting na 115 resting the 115 resting the 115 resting	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.		The restrict
estrine 215 res restine 215 res restine 215 re restine 215 rs restine 215 rs restine 215	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	1108 112 (e.e. (100 1	st ing 115 tes ing the 115 tes (esting
ETP Testing R TP Testing Ing TP Testing Ing TP Testing Study T	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:		1) S Tesching T 1 S Tesching T 1 S Tesching 1 S Teschin
10051108 115 10 105 1051108 115 10 115 1051108 115 115 105108 115 115 105108 11 115 105108 10 105 105108 10 105 105108 10	• 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;		es ins 115 re restins 115 restins 115 restins 115 restins 115 restins 115 restins 1 15 restins 1 15 restins 1
ing The rest in sting The rest in esting The rest esting The rest rest the The rest	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384-14;</li> </ul>	res ins TD res ins TD res ins TD res ins TD rest Creating TD res ins TD resting TD rest ins TD rest TD rest ins TD res ins TD rest ins TD rest TD res ins TD res ins TD rest ins TD rest TD res ins TD rest ins TD rest ins TD rest TD rest ins TD rest ins TD rest ins TD rest ins TD rest TD rest ins TD rest ins TD rest ins TD rest ins TD rest TD rest ins TD rest	10 115 105 10510 10 115 115 10510 10 116 115 1051 10 108 115 105
Testing IIS Testin	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.	TO reading	restine 175 restine 175 frestine 175 frestine 175 frestine 175 frestine 175 frestine 175
5.5.2.1	Norway at 15 restine 15 restine 15 restine 15 restine 15	Testing ID Testing ID Testing ID Testing ID Testing	N/A
Sting 215 Test	After the 3rd paragraph the following is added:	To testing 15 resting 15 resting 15 resting 15 res	116 215 Test
Testing 115 te Testing 115 to 5 Testing 115 115 Testing 15 115 Testing 15 115 Testing 15	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	To resting	Testing IS T Testing IS T Testing IS Testing IS T Testing IS



Clause	Requirement	Remark	Result
Clause	Requirement	In the result of the result of the	Tesuit
5.5.6	Finland, Norway and Sweden	etine 115 Testine 115 Testine	N/A
	To the end of the subclause the following is added:	resting The resting The rest	ting 15 resting 15 resting
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.	5 rest nue 175 rest nue 175 175 rest nue 175 rest nue 175 175 rest nue 175 rest nue 175 175 rest nue 175 rest nue 175 186 175 rest nue 175 rest nue 175 186 175 rest nue 175 rest nue 175 186 175 rest nue 175 rest nue 186 175 rest nue 175 rest nue 175 rest nue 186 175 rest nue 175 rest	Control of the second of the s
5.6.1	Denmark	resting 115 resting 115 rest	N/A
sting 115 Tes	Add to the end of the subclause	5 restine 115 restine 115 re	25-1108 115 1251 108 115 1251 25-1108 115 1251 108 115 1251
	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.		
	<i>Justification:</i> In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	5 Test into IC Test into IC T 15 Test into IC Test into IC T 15 Test into IC Test into IC T 16 TC Test into IC Test into IC 16 TC Test into IC Test into IC Test into IC Test into IC 16 TC Test into IC Test int	25 11 11 15 12 10 10 15 10 10 10 10 15 10 10 10 15 10 10 10 15 10 10 10 10 5 10 10 10 15 10 5 10 10 15 10 5 10 10 15 10 5 10 10 15 10 5 10 10 10 10 5 1
5.6.4.2.1	Ireland and United Kingdom	Cline 15 lestine 15 restin	15 TEST 108 TT 5 TESN/A
India IS rest india IS rest india IS rest restina IS res restina IS restina IS restina IS restina IS IS restina IS IS	After the indent for <b>pluggable equipment type A</b> , the following is added:	100 100 100 100 100 100 100 100 100 100	ine l'in the restine line the restine che l'ine l'in the restine line line the rest estine l'in the restine line line the rest (est hie l'in the rest he line line the rest
	- the <b>protective current rating</b> is taken to be 13 A, this being the largest rating of fuse used in the <b>mains</b> plug.	$\begin{array}{c} 1^{(1)} & re^{S_{1}} rm^{S_{1}} rm^{S_{2}} rm^{S$	$\begin{array}{c} \text{res}^{(1)} (110^{-1} \text{T}) = 1 \\ \text{res}^{($
5.6.5.1	To the second paragraph the following is added:	realing 115 realing 115 real	N/A
esting 215 res resting 215 res resting 215 res resting 215 res resting 215 res 15 resting 215 215 resting 215 215 resting 21 215 resting 21	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:	S test the TS test the TS to S test the TS test the TS to TS test the TS test the TS TS test the TS test the TS TS test the TS M TS test the TS TS test the TS test the TS TS test the TS test the TS test test test test test test test tes	
	1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.	ting LIS resting LIS resting	The resting The resting t
5.7.5	Denmark	Testing ITS resting ITS rest	In N/A
	To the end of the subclause the following is added:	To reacting the reacting the training the	isting The Lesting The Line The Line The
	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	125 resting 125 resting 125 125 resting 125 resting 125 18 125 resting 125 resting 125 18 125 resting 125 resting 1 18 125 resting 125 resting 1 18 125 resting 15 resting 1 18 125 resting 15 resting 15	te- (110 175 175 175 (110 175 ) 5 rest (110 175 16 (110 175 ) 15 rest (110 175 16 (110 175 ) 15 rest (110 175 (15 100 100 ) 15 rest (110 175 (15 100 ) 15 rest (110 175 ) 15 rest (1



EN IEC 62368-1			
Clause	Requirement	Remark	Result
5.7.6.1	Norway and Sweden	the 115 restine 115 restine	N/A
	To the end of the subclause the following is added:	resting The resting The rest resting The resting The rest rest ing The rest ing The rest	ing ITS rescing Its rescing the rescing
	The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	1         res         rule         TS         res         rule         rule         res         rule         TS         res         rule         res         rule         res         rule         rule         res         res         rule	Control 10 10 10 10 10 10 10 10 10 10 10 10 10
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	15 105 105 10 10 10 10 10 10 10 10 10 10 10 10 10	$ \begin{array}{c} 5 \\ 5 \\ 5 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\$
ting 175 rest sting 175 rest esting 175 res resting 175 res resting 175 res resting 175 resting 175 resting 175	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	The international provided in the second sec	STING TO TO TO THE INTERNATION OF THE TO
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	110         1.5         res         100         1.5         res         1.05         res         1.05         res         1.05         res         1.05         res         1.05         re	b. T/S         resultion         1/1         resultion           10         1/S         resultion         1/S         resultion           116         1/S         resultion         1/S         resultion           117         resultion         1/S         resultion         1/S           118         1/S         resultion         1/S         resultion           118         1/S         resultion         1/S         resultion           118         1/S         resultion         1/S         resultion           118 </td
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	175 Tess (the TD Tess (the TD TD Tess (the TD Tess (the TD 16 TD Tess (the TD Tess (the TD 16 TD Test (the TD Tess (the TD 16 TD Test (the TD Test (the 16 TD Test (the TD Test (the	τe set time         1.75         τ.es         t.ime         1.55           5         τ.es         t.ime         1.55         τ.es         t.ime         1.55           5         τ.es         t.ime         1.55         τ.es         t.ime         1.55           1.55         τ.es         t.ime         1.55         τ.es         t.ime         1.55           1.55         τ.es         t.ime         1.55         τ.es         t.me         1.55         t.es         t.me         1.55         t.es         t.me         1.55
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	testime is the restine is to test testime is to testime is to test the intervent of the restime is to test to testime its testime is to to testime is to test into its to	and the testine the test and the the testine the test at the the the testine the test testine the testine the test testine the testine testine test testine the testine
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	115 rest into 175 rest into 175 18 175 rest into 175 rest into 175 18 175 rest into 175 rest into 18 175 rest into 175 rest into 18 175 rest into 175 rest into 19 175 rest into 175 rest into 19 175 rest into 175 rest 10 rest into 175 rest into 175 rest 15 rest into 175 rest into 175 rest into 175 rest 15 rest into 175 rest into 17	5 resting 1/5 rest
	Translation to Swedish:	ing TIS testing ITS testing I ing TIS testing TIS testing I	To resting US resting US
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".	tine (5) restine (5) restine return (7) restine (5) restine restine (5) restine (5) restine restine (5) restine (5) restine (5) restine (5) restine (5) (5) restine (5) restine (5) (5) restine (5) restine (5) (5) restine (5) restine (5) (5) restine (5) restine (5) (6) r(5) restine (5) restine (5) restine (5) (6) r(5) restine (5) restine (5) restine (5) (6) r(5) restine (5) rest	b         1/5         (es. 1)b         1/5         (es. 1)b           1/5         (es. 1)b         1/5         (es. 1)b         1/5         (es. 1)b           1/b         1/5         (es. 1)b         1/5         (es. 1)b         1/5         (es. 1)b           1/b         1/5         (es. 1)b         1/5         (es. 1)b         1/5         (es. 1)b           1/b         1/5         (es. 1)b         1/5         (es. 1)b         1/5         (es. 1)b



EN IEC 62368-1				
Clause	Requirement	Remark	Result	
5.7.6.2	Denmark	the LIS Testine LIS Testine	The rest ins the rest ins it	
5.7.0.2	The reacting the reaction the testing the reacting the reaction the testing the	resting ITS resting ITS rest resting ITS resting ITS rest	N/A	
ring LTS rest esting LTS rest resting LTS rest resting LTS rest resting LTS rest	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	Testing TS testing TS testing TS to S testing TS testing TS to DS testing TS testing TS to TS testing TS testing TS TS testing TS testing TS TS testing TS testing TS		
IS Testing US	protective current exceed the limits of 3,5 mA .	ine ITS restline ITS restline	115 Testing 115 Testing 115	
B.3.1 and	Ireland and United Kingdom	the State Les the State Lest	115 Test 115 Test 115 Tes N/A	
B.4 Street	The following is applicable:	resting 115 resting 15 res	sting IN resting The resting	
out into 105         105         105           resci into 105         105         105           resci into 105         105         105           105         resci into 105         resci into 105	To protect against excessive currents and short- circuits in the primary circuit of <b>direct plug-in</b> <b>equipment</b> , 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 <b>direct plug-in equipment</b> , until the requirements of Annexes B.3.1 and B.4 are met	25         res         the         1/5         res         the         1/5           1/5         res         the         1/5         res         the         1/5         res         the           1/6         1/5         res         the         <	t=es         trik         t/S         tes         the         t/S         tes           t=tres         trik         t/S         tes         the         t/S         tes         the         t/S           t=tres         tres	
G.4.2	Denmark	resting 15 resting 15 rest	N/A	
ting ILS Lest	To the end of the subclause the following is added:	5 resting 115 resting 115 re	estine 115 testine 115 testi testine 115 testine 115 testi	
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	15 rest into 15 rest into 15 15 rest into 15 rest into 15 15 rest into 15 rest into 1 16 15 rest into 15 rest into 16 15 rest into 15 rest into	test into 15 test into 15 test test into 15 test into 15 test 15 test into 15 test into 15 15 t	
	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.	a time TD readine TD readine readine TD readine TD readine readine TD readine TD readine readine TD readine TD readine D readine TD readine TD TD readine TD readine TD	000 1.75 (25 (100 1) 5 (100 1)5 (25 (100 1)5 (25 (100 1)5 (25 (100 1)5 (25 (100 1)5 (100 1)5 5 (25 (100 1)5 (25 (100 1)5 5 (25 (100 1)5) 5 (25 (100 1)5) 5 (25 (100 1)5) 5 (25 (100 1)5) 5 (25 (100 1)5) 5 (25 (100 1)5) 5 (25 (100 1)5) 5 (25 (100 1)5) 5 (25 (100 1)5) 5 (25 (100 1)5	
	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.		$ \begin{array}{c} a & 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	18 115 Feet 118 15 Fest 118 15 Fest 18 115 Feet 118 15 Fest 118 15 5418 15 Fest 118 15 Fest 118 18 115 Fest 118 15 Fest 118 18 115 Fest 118 15 Fest Fest 118 15 Fest 118 15 Fest 18 115 Fest 118 15 Fest 118 15 Fest 118 15 Fest 18 115 Fest 118 15 Fest 118 15 Fest 118 15 Fest 18 15 Fest 118	15 (estime 15) (stime 15) 15 (estime 15) (estime 15) 15 (estime 15) (estime 15) 16 (15) (estime 15) (estime 16 (15) (estime 15) (estime 15) (estime 16 (15) (estime 15) (estime 15) (estime 16 (15) (estime 15) (e	
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	2) Feed 108 112 Feed 108 125 15 Feed 108 115 Feed 108 15 15 Feed 108 115 Feed 108 15 16 Feed 108 15 Feed 108 16 F15 Feed 108 15 Feed 108 16 F15 Feed 108 15 Feed 108	125 - 116 12 12 125 125 12 12 125 125 125 125 125	
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1- 7a	The state of the s	$ \begin{array}{c} 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 $	
	Justification: Heavy Current Regulations, Section 6c	105 Testing 175 Testing 105 Testing 175 Testing 105 Testing 175 Testing 105 Testing 175 Testing 105 Testing 175 Testing	5 788 118 115 78 78 118 115 115 784 118 115 78 118 118 115 784 118 115 78 118 118 115 784 118 115 78 118 118 115 784 118 115 78 118 118	



Clause	Requirement	Remark	Result
		The life reaction of the life	Le lue 1/2 le line 1
G.4.2	United Kingdom	refine DS Testine DS Testine	N/A
	To the end of the subclause the following is added:	Testing The testing The test	ing the testing the test
	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 Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	5 rest the LS rest	end time TCS test time TCS test test time TCS test time TCS test test time TCS test time TCS test test time TCS test time TCS test to test time TCS test time TCS to test time TCS test time TCS to test time TCS test time TCS to test time TCS test time TCS test time time TCS test time TCS test time to test to test
G.7.1	United Kingdom	115 Testing 215 Testing 215	N/A
TIS Test ins	To the first paragraph the following is added:	une 115 restine 115 restine	The rest ine The rest ine to
	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.	and the LD reacting LD reacting to the the test in the LD reacting	100         1/5         restine         5         restine           100         1/5         restine         7         restine           101         1/5         restine         7         restine           102         1/5         restine         7         restine           105         restine         7         restine         7         restine           105         restine         7         restine         7         restine         7         restine           105         restine         7         restine         7         restine         7         restine         7         restine         7         7 <td< td=""></td<>
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	testine District testine District the District testine to the District testine District the District testine District the District testine Dis	ine US restine US rest stre US restine US rest earline US restine US rest restine US rest ne US res restine US rest ne US res rest ne US res of the US res
G.7.1	Ireland	The the resume the resume the	N/A
The Lear Ing	To the first paragraph the following is added:	Line 115 Testine 115 Testine Line 115 Testine 115 Testine	215 Testing 115 Testing 1
ne TS rest ine TS rest ine TS rest ine TS rest ine TS rest rest ne TS re rest ne TS re rest ne TS re to rest ne TS rest ne TS re	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	α         μm          μm         μm         μm<	m         (1)2         (1
G.7.2	Ireland and United Kingdom	Testing In Its testing Its tes	N/A
Testing 115	To the first paragraph the following is added:	TS realing US resting US	resting 15 resting 15 re
Testine ID TS Testine I TS Testine I TS Testine LIS Testine LIS Testine	A power supply cord with a conductor of 1,25 mm <sup>2</sup> is allowed for equipment which is rated over 10 A and up to and including 13 A.	16 175 reaction 175 reaction 1 16 175 reaction 175 reaction 1 176 175 reaction 175 reaction 1 176 175 reaction 175 reaction 1 176 175 reaction 175 reaction 1 175 reacti	5 rest in 15 rest in 15 rest in 15 15 rest in 15 rest in 15 15 rest in 15 rest in 15 15 rest in 15 rest in 15 rest in 15 rest in 15 rest in 15 rest in 16 r5 rest in 15 rest in



EN IEC 62368-1			
Clause	Requirement	Remark	Result
	ANNEX ZC, NATIONAL DEVIATIONS (EN)	sching 15 festing 15 festing (1) 15 festing 15 festing (1) 15 festing 15 festing festing 15 festing 15 festing festing 15 festing festing 15 festing	N/A
	Germany	15 Test 108 15 Test 108 15 Test	N/A
	The following requirement applies:	12 12 resting 115 resting 115 r	testing The Lis Lesting The The Lis Les
	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.	$\begin{array}{c} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n}$	
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	66         107         res         108         175         res         108	the TQ test the TQ test the the TQ test the TQ test the TQ test the TQ test the TQ test the test the TQ test the test test the test the test test test test the test test test test the test test test test test test test test test test test test
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	$\begin{array}{c} T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \right\} \right\}} \right\} \right\} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \right\} \right\} \right\} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \right\} \right\} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \end{array} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \end{array} \\ T_{1} = \left\{ \end{array} \end{array} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \end{array} \\ T_{1} = \left\{ \end{array} \end{array} \\ T_{1} = \left\{ \begin{array}{c} T_{1} = \left\{ \end{array} \right\} \\ T_{1} = \left\{ \end{array} \end{array} \\ \\ T_{1} = \left\{ \end{array} \end{array} \\ \\ T_{1} = \left\{ T_{1} = \left\{ T_{1} = \left\{ \end{array} \end{array} \\ \\ \\ T_{1} = \left\{ T_{1} = T_{1} \\ \\ T_{1} = \left\{ $	and 100 115 (rest 10) 115 (rest est 100 175 (rest 10) 115 (rest (rest 100 175 (rest 10) 100 175 (rest (rest 100 175 (rest 100 175 (rest 155 (rest 100 175 (rest 100 175 (rest 100 175 (rest 155 (rest 100 175 (



# Appendix 2: REAL PHOTOS



Photo 1



Photo 2





Photo 3



TUR TIS TESTING

\*\*\*End of the report\*\*\*