

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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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

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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| 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 - | 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 | | | | | |
| To reacting the re | Construction of the second | | | | | |
| $ \begin{array}{c} c_{1} c_{2} c_{3} c_{4} c_{6} c_{6$ | $ \begin{array}{c} \sup_{i=1}^{n} \frac{1}{12} \sum_{i=1}^{n} \frac{1}{110} \frac{1}{12} \sum_{i=1}^{n} \frac{1}{100} \frac{1}{110} \sum_{i=1}^{n} \frac{1}{100} \frac{1}{110} \frac{1}{100} $ | | | | | |
| 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 ² , 1) 15 (e ² , 1) 15 (e ²) 15 (e ²) 15 (e ²) 15 (e ²) 15 (e ²) 16 (e ²) 15 (e ²) 16 (e ²) 16 (e ²) 17 (e ²) 16 (e ²) 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 P |
| 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 |



| TING THE LEEP | EN IEC 62368-1 | 12 100 (110 12 100 (110 12) 100 (12 100 12) 100 100 100 100 100 100 100 100 100 10 | Up ID Les |
|---|---|---|---|
| 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 ^{nsulation} 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 _{op} (V) | Testing 13 Testing 15 | ing 1 |
| Stine Ins Test | Nominal voltage U _{peak} (V) | 5 restine 15 restine 15 restine 15 restine 15 re | 54 LIN 65 LIN |
| Testine 175 To | Max increase due to variation U _{sp} : | 15 resting 15 resting 15 resting 15 resting 15 | res |
| The Testing US | Max increase due to ageing ΔU_{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 ²) | 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 ²): | 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 ²), 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 ²): | 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 _{Aeq} 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 (Ω).: | 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 |
| G.4 | 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 |



| EN IEC 62368-1 | | | |
|---------------------|---|--|---|
| 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 ²), (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 | Unintentional charging of a non-rechargeable battery | 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 ³ /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 |
| T .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 ¹) |
| 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. | T = (, , , , , , , , , , , , , , , , , , | | 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 _{min} (°C) | Lest the The Les | : 24.2 | 25.0 | 24.6 | 25.2 | stine The Test | 1.00 |
| 15 Testine | 15 Test | Ambient T _{max} (°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 _{max} (°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 ₁ (°C) | R ₁ (Ω) | t ₂ (°C) | R ₂ (Ω) | T (°C) | Allowed T _{max} (°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) ¹ | Required cl (mm) | cl (mm) ² | Required ³ 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* ⁾ | PS Classification | |
| | | Power (W) | : | | 4.96 | | |
| Output terminal | Normal | V _A (V) | : | | 4.96 | PS1 | |
| | | I _A (A) | : | | 1 | | |
| | | Power (W) | : | | | | |
| All primary circuit | Normal | V _A (V) | : | | | PS3 (declared) | |
| | | I _A (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 _p x I _{rms}) | 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 ^{owest} °C) | Observa | ation | Charging at T _{highest} (°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 _{oc} (V) | I _{sc} (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 | Delete 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. mains , protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): | 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 pluggable equipment type B or permanently connected equipment , to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. | 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 pluggable equipment type A 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 |
| 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 external circuit 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 ^{c)} and ^{d)} 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 ² , at any point 10 cm from the outer surface of the apparatus. | 54 108 175 (55 100 175 100 | ⁴⁶ 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 μ 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 | | | | | |
| 2Б 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 Finland : "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 Norway : "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 safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. | 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 | two layers of thin sheet material, each of which shall pass the electric strength test below, or | 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 | the additional testing shall be performed on all the test specimens as described in EN 60384-14; | 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 basic safeguard or bridging basic insulation in class I pluggable equipment type A 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 pluggable equipment type A , 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 protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains 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 ² to 1,5 mm ² 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 protective conductor current 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 direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met | 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 ² 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

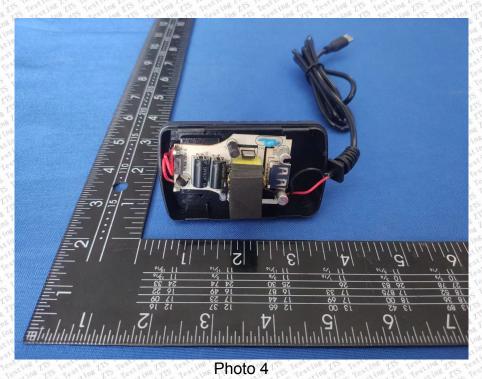


Photo 2





Photo 3



TUR TIS TESTING

End of the report