

Safety Test Report

Report No.: AGC09377170502ES02

PRODUCT DESIGNATION: Travel Charger

BRAND NAME: Vonino

MODEL NAME : VNA-000001

CLIENT: Vonino Electronics (HK) Limited

DATE OF ISSUE : May 15, 2017

STANDARD(S) : EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.

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TEST REPORT

EN 60950-1

Information technology equipment-Safety-

Part 1: General requirements Report Reference No...... AGC09377170502ES02 Tested by (+ signature) Johnson Ye Jenny li mette He Reviewed by (+ signature) Jenny Li Matte He Approved by (+signature) (Authorized Officer) Date of issue May 15, 2017 Contents...... Total 48 pages. Testing laboratory Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China Testing location...... Same as above. **Applicant** Name...... Vonino Electronics (HK) Limited Address #1109, 11/F, Kowloon Center 33 Ashley Road , Tsim Sha Tsui, Kowloon, Hong Kong Manufacturer Name...... Shenzhen Eagletron Electronic Co., Ltd. Address Building C9, Meihuamei Industrial, Zhenmei Community, Guangming New District, Shenzhen, China Test specification Standard...... EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 Test procedure Type test Procedure deviation..... N/A Non-standard test method...... N/A Test Report Form/blank test report Test Report Form No...... AGC60950A7 Test Report Form(s) Originator...... AGC Master TRF Dated 2014-04

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| | 200 | |
|--|-----------------------------------|--|
| Test item | | |
| Product designation | Travel Charger | |
| Brand name: | Vonino | |
| Test model: | VNA-0000001 | |
| Series model | | |
| Rating(s): | Input: 100-240V Output: 5.0V=, | ~, 50/60Hz, 0.3A 2.0A |
| Test item particulars | 拉那 | · · · · · · · · · · · · · · · · · · · |
| Equipment mobility | St. See | movable hand-held transportable |
| -C | | |
| Connection to the mains | : | permanent connection |
| 50 | | detachable power supply cord |
| 10000000000000000000000000000000000000 | | ☐ non-detachable power supply cord ☐ not directly connected to the mains |
| Operating condition | | □ not directly connected to the mains □ continuous |
| Operating condition | | rated operating/ resting time: |
| Access location | :: | □ operator accessible □ restricted access location |
| Over voltage category(OVC) | 下 | □OVC I □OVC II □OVC IV □other |
| Mains supply tolerance(%) or absolute | | |
| values | | ±10% |
| Tested for IT power systems | : | ∐Yes ⊠No |
| IT testing, phase-phase voltage(V) | <u> </u> | |
| Class of Equipment | | ☐Class I ☐Class III☐not classified |
| Considered current rating of protective of the building installation (A) | | 16A |
| Pollution degree(PD) | ······: | □PD 1 □PD3 |
| Protection against ingress of water | : | IPX0 |
| Altitude during operation (m) | : | 2000m |
| Altitude of test laboratory (m) | ·····: | <500m |
| Mass of equipment (kg) | | <1 kg |
| Test case verdicts | | |
| Test case does not apply to the test obj | ect: | N (/A) |
| Test item does meet the requirement | : | P (ass) |
| Test item does not meet the requirement | nt: | F (ail) |
| Testing | | |
| Date of receipt of test item | | Aug. 13, 2016 |
| Date(s) of performance of test | | Aug. 13 – Aug. 22, 2016 |

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Attachment

Attachment A..... Photos of product

General remarks

This report shall not be reproduced except in full without the written approval of the testing laboratory.

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

"(See remark #)" refers to a remark appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

| Report Revise Re | ecord: | | | |
|------------------|-------------|-------------|---------------|-----------------|
| Report Version | Revise Time | Issued Date | Valid Version | Notes |
| V1.0 | 1.0 | 2017-05-15 | Valid | Original report |

General product information

The original test report Ref. No. AGC06327160802ES02(dated 2016-08-22), was modified on 2017-05-15 to changed basic information, no further testing necessary.

The Travel Charger is direct plug-in type with integrated EN50075 plug and Class II product with plastic enclosure. It is intended for dry location use only.

Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.

The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of 40 °C.

Summary of testing

The test item passed.

Copy of marking plates

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Travel Charger Vonino Model: VNA-0000001 Input: 100-240V~, 50/60Hz, 0.3A Output: 5.0V === 2.0A Shenzhen Eagletron Electronic Co., Ltd. Building C9, Meihuamei Industrial, Zhenmei Community, Guangming New District, Shenzhen, China Importer: ×××××× Address: x x x x x x Made In China

Remark:

- 1) The CE marking and WEEE symbol (if any) should be at least 5mm and 7mm respectively in height.
- 2) The markings and instructions are the minimum requirements required by safety standard. For final production samples, the additional markings which do not give rise to misunderstanding may be added.
- 3) As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or mark and the postal address will be marked on the products before being place on the market.
- 4) Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.

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| EN 60950-1 | | | | |
|------------|--|--|------------|--|
| Clause | Requirement – Test | Result – Remark | Verdict | |
| | 7 7 7 7 | The state of the s | # distance | |
| 1 | GENERAL | C C CC | Р | |
| 16 | | 100 10 | 5 | |
| 1.5 | Components | 梅 | P | |
| 1.5.1 | General | The state of the s | Р | |
| 3C* | Comply with IEC 60950 or relevant component standard | Components which were found to affect safety aspects comply with the requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. (see appended table 1.5.1) | J. T. T. | |
| 1.5.2 | Evaluation and testing of components | Components which are certified to IEC/EN and/or national standards are used correctly within their ratings. Components not covered by IEC/EN standards are tested under the conditions present in the equipment. | P | |
| 1.5.3 | Thermal controls | No any thermal controls. | N | |
| 1.5.4 | Transformers | Transformer used is suitable for their intended application and comply with the relevant requirements of the standard. | P | |
| 1.5.5 | Interconnecting cables | 10 | Р | |
| 1.5.6 | Capacitors bridging insulation | Capacitors used in accordance with their rating and complied with subclasses of IEC 60384-14 with at least 21 days damp heat test. | P | |
| 1.5.7 | Resisters bridging insulation | No such components. | N | |
| 1.5.7.1 | Resisters bridging functional, basic or supplementary insulation | E THE | N | |
| 1.5.7.2 | Resisters bridging double or reinforced insulation between a.c. mains and other circuits | Catherine Co. | S N | |
| 1.5.7.3 | Resisters bridging double or reinforced insulation between a.c. mains antenna or coaxial cable | | N. | |
| 1.5.8 | Components in equipment for IT power systems | The The state of t | N | |
| 1.5.9 | Surge suppressors | No such parts. | N | |
| 1.5.9.1 | General | -CO | N | |
| 1.5.9.2 | Protection of VDRs | - N | N | |
| 1.5.9.3 | Bridging of functional insulation by a VDR | The state of the s | N | |
| 1.5.9.4 | Bridging of basic insulation by a VDR | | N | |

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| | EN 60950-1 | | |
|---------|---|-----------------|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 1.5.9.5 | Bridging of supplementary, double or reinforced insulation by a VDR | 果 玩意。 | N |

| 1.6 | Power interface | 0 100 100 | Р |
|-------|--------------------------------------|-----------------------------|-----|
| 1.6.1 | AC power distribution systems | TN power system for adaptor | P |
| 1.6.2 | Input current | Within limits | Р |
| 1.6.3 | Voltage limit of hand-held equipment | Not a hand-held equipment. | - N |
| 1.6.4 | Neutral conductor | | N |

| 1.7 | Marking and instructions | · 传》 | P |
|----------------------|--|--|-----|
| 1.7.1 | Power rating | See below | Р |
| 手和。 | Rated voltage(s) or voltage range(s) (V): | Input:100-240V a.c ,Output:5.0V d.c | |
| the callo | Symbol for nature of supply, for d.c. only: | ~ 10 | |
| 30 | Rated frequency or rated frequency range (Hz) .: | 50/60Hz | |
| | Rated current (mA or A): | Input :0.3A, output: 2.0A | |
| 1.7.1.2 | Identification markings | / \CO P | Р |
| Francisco de Colonia | Manufacturer's name or trademark or identification mark: | See marking plate. | |
| | Type/model or type reference: | See marking plate. | |
| - FIII) | Symbol for Class II equipment only: | | |
| _ \$ | Other marking and symbols: | See marking plate. | |
| 1.7.1.3 | Use of graphical symbols | 表型 天 | P |
| 1.7.2 | Safety instructions and marking | Provided | P |
| 1.7.2.1 | General | See below. | Р |
| 1.7.2.2 | Disconnect devices | No such devices | M N |
| 1.7.2.3 | Overcurrent protective device | 10 Th | N |
| 1.7.2.4 | IT power distribution systems | - 4 3 m | N |
| 1.7.2.5 | Operator access with a tool | C S | N |
| 1.7.2.6 | Ozone | | N |
| 1.7.3 | Short duty cycles | Equipment is designed for continuous operation. | N |
| 1.7.4 | Supply voltage adjustment: | Single supply. | N |
| Complia | Methods and means of adjustment; reference to installation instructions: | NO III | Ń |
| 1.7.5 | Power outlets on the equipment: | The Beating of The State of the | N |

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| | EN 60950-1 | | |
|---------|---|--|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 1.7.6 | Fuse identification (marking, special fusing characteristics, cross-reference): | Fusible resister, FR1, 2.2ohm 1W | P |
| 1.7.7 | Wiring terminals | -C -C | N |
| 1.7.7.1 | Protective earthing and bonding terminals: | 700 70 | N |
| 1.7.7.2 | Terminal for a.c. mains supply conductors | 100 | N |
| 1.7.7.3 | Terminals for d.c. mains supply conductors | 超 | N |
| 1.7.8 | Controls and indicators | -C | СР |
| 1.7.8.1 | Identification, location and marking: | It is obviously unnecessary. | N |
| 1.7.8.2 | Colours: | The colours used for LED are indicating function. No safety consideration. | P |
| 1.7.8.3 | Symbols according to IEC 60417: | - C.** | N |
| 1.7.8.4 | Markings using figures | 100 | N |
| 1.7.9 | Isolation of multiple power sources: | Single power sources. | N |
| 1.7.10 | Thermostats and other regulating devices | No such devices. | N |
| 1.7.11 | Durability | The marking with stands required tests. | Р |
| 1.7.12 | Removable parts | No such parts | ₩ N |
| 1.7.13 | Replaceable batteries | No batteries. | N |
| | Language(s) | C** | |
| 1.7.14 | Equipment for restricted access locations: | 30 30 | N |

| 2 | PROTECTION FROM HAZARDS | 基型 | P |
|--------------|---|--|------|
| 2.1 | Protection from electric shock and energy hazards | No hazardous parts in operator access areas. | Р |
| 2.1.1 | Protection in operator access areas | | P |
| 2.1.1.1 | Access to energized parts | Energized parts are not accessible. | Р |
| | Test by inspection | Compliance | Р |
| | Test with test finger(Figure 2A): | Compliance | Р |
| - 6 | Test with test pin (Figure 2B): | Compliance | P. W |
| C.O " | Test with test probe (Figure 2C) | | N |
| 2.1.1.2 | Battery compartments | A. B. S. | N |
| 2.1.1.3 | Access to ELV wiring | - 0.3 | N |
| don Complian | Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation | (see appended table 2.10.5) | |
| 2.1.1.4 | Access to hazardous voltage circuit wiring | 张 | N |

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| Clause | Requirement – Test | Result – Remark | Verdict |
| 2.1.1.5 | Energy hazards: | No energy hazard in operator access area | PR |
| 2.1.1.6 | Manual controls | - C - C | N |
| 2.1.1.7 | Discharge of capacitors in equipment | 100 100 | N |
| Front Global | Time-constant (s); measured voltage (V): | 1000000 | |
| 2.1.1.8 | Energy hazards – d.c. mains supply | No d.c. mains supply | N |
| - FILE | a)Capacitor connected to the d.c. mains supply: | - G | - N |
| Santalan Sa | b)Internal battery connected to the d.c. mains supply: | C. So. D | N |
| 2.1.1.9 | Audio amplifiers | No any amplifiers | N |
| 2.1.2 | Protection in service access areas | -C* | N |
| 2.1.3 | Protection in restricted access locations | -0 | N |

| 2.2 | SELV circuits | | Р |
|-------|--|--|------------|
| 2.2.1 | General requirements | 42.4V peak or 60VDC are not exceeded in SELV circuit under normal operation or single fault condition. | ⊘ P |
| 2.2.2 | Voltages under normal conditions (V): | (see appended table 2.2) | Р |
| 2.2.3 | Voltages under fault conditions (V): | (see appended table 2.2) | Р |
| 2.2.4 | Connection of SELV circuits to other circuits: | Compliance | Р |

| 2.3 | TNV circuits | | N |
|---------|--|------------------|-----|
| 2.3.1 | Limits | No TNV circuits. | N |
| 人枪 | Type of TNV circuits: | " CO" \ C | N |
| 2.3.2 | Separation from other circuits and from accessible parts | The Transfer | N |
| 2.3.2.1 | General requirements | 不是 | N |
| 2.3.2.2 | Protection by basic insulation | 4.5 | N |
| 2.3.2.3 | Protection by earthing | 0, 50 | N |
| 2.3.2.4 | Protection by other constructions: | 70 | N N |
| 2.3.3 | Separation from hazardous voltages | 大型 | N |
| lite: | Insulation employed: | | N |
| 2.3.4 | Connection of TNV circuits to other circuits | 100 | N |
| | Insulation employed: | | N N |
| 2.3.5 | Test for operating voltages generated externally | · 环。 | N |

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| Clause | Requirement – Test | Result – Remark | Verdict |
| 2.4 | Limited current circuits | 10000000000000000000000000000000000000 | P |
| 2.4.1 | General requirements | Annex D used. | P |
| 2.4.2 | Limit values | 0.7mA | |
| The state | Frequency (Hz) | 10 10 | |
| season of G | Measured current (mA) | 0.02mA | |
| | Measured voltage (V) | The therman was a second of the second of th | |
| £ 700 | Measured capacitance (nF or μF): | - 1 - CO - N | |
| 2.4.3 | Connection of limited current circuits to other circuits | O. B. | N |

| 2.5 | Limited power sources | The state of the s | P |
|-------------|---|--|------|
| F The | a)Inherently limited output | - GO | N |
| Attricano | b)Impedance limited output | | N sh |
| 100 | c)Regulating network limited output under normal operating and single fault condition | See appended table 2.5. | P |
| 3 | d)Overcurrent protective device limited output | 20 | N |
| 新学 录 | Max. output voltage (V), max. output current (A), max. apparent power (VA): | See appended table 2.5. | |
| | Current rating of overcurrent protective device (A) | The state of the s | N |
| Alle: | Use of integrated circuit (IC) current limited | -0" 60" | N |

| 2.6 | Provisions for earthing and bonding | | N |
|---------|---|---------------------------------------|------------------|
| 2.6.1 | Protective earthing | Class II equipment. | N |
| 2.6.2 | Functional earthing | -C - CO | N |
| 学习 | Use of symbol for functional earthing: | 10 20 | N |
| 2.6.3 | Protective earthing and protective bonding conductors | · · · · · · · · · · · · · · · · · · · | N |
| 2.6.3.1 | General | - C **** | N |
| 2.6.3.2 | Size of protective earthing conductors | C NO E | N |
| GC* | Rated current (A), cross-sectional area (mm2), AWG: | | N. N. Danielando |
| 2.6.3.3 | Size of protective bonding conductors | K | N |
| 相測 | Rated current (A), cross-sectional area (mm2), AWG: | CC SO | N |
| 2.6.3.4 | Resistance of earthing conductors and their terminations, resistance(Ω), voltage drop(V),test current (A), duration(min) | THE REAL PROPERTY. | N |
| 2.6.3.5 | Colour of insulation: | CO N | N |

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distribution system

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| Clause | Requirement – Test | Result – Remark | Verdict | |
| 2.6.4 | Terminals | · 拉思 | N | |
| 2.6.4.1 | General | The state of the s | N | |
| 2.6.4.2 | Protective earthing and bonding terminals | C - C - C - C - C - C - C - C - C - C - | N | |
| 平玩物 | Rated current (A), type and nominal thread diameter (mm): | | N | |
| 2.6.4.3 | Separation of the protective earthing conductor from protective bonding conductors | The state of the s | N | |
| 2.6.5 | Integrity of protective earthing | ~ B | N | |
| 2.6.5.1 | Interconnection of equipment | | N | |
| 2.6.5.2 | Components in protective earthing conductors and protective bonding conductors | · · · · · · · · · · · · · · · · · · · | N | |
| 2.6.5.3 | Disconnection of protective earth | C. 1 | N | |
| 2.6.5.4 | Parts that can be removed by an operator | 100 | N | |
| 2.6.5.5 | Parts removed during servicing | | N | |
| 2.6.5.6 | Corrosion resistance | T. 30 | N | |
| 2.6.5.7 | Screws for protective bonding | - C - S | N | |
| 2.6.5.8 | Reliance on telecommunication network or cable | 7 10 | N | |

| 2.7 | Overcurrent and earth fault protection in prima | ry circuits | Р |
|-------|--|--|-----|
| 2.7.1 | Basic requirements | Protection against overcurrent and short-circuits is provided as an integral part of the equipment. Protection against earth faults is provided as part of the building installation. | P |
| 手状性 | Instructions when protection relies on building installation | PCO PC | N |
| 2.7.2 | Faults not covered in 5.3.7 | Considered | P # |
| 2.7.3 | Short-circuit backup protection | The building installation is considered as providing short circuit backup protection. | Р |
| 2.7.4 | Number and location of protective devices: | Over current protection by fusible resister. | P |
| 2.7.5 | Protection by several devices | K TO THE REAL PROPERTY OF THE PARTY OF THE P | N |
| 2.7.6 | Warning to service personnel: | - C C | N |

| 2.8 | Safety interlocks | | THE PARTY NAMED IN | 拉测 | N |
|-------|-------------------------|------------|----------------------|------------|---|
| 2.8.1 | General principles | A 11 | No safety interlocks | A Copy Con | N |
| 2.8.2 | Protection requirements | 采 环 | C. C.C. | 110 | N |

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Mechanical actuators

2.8.8

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|---------|-----------------------------------|--|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 2.8.3 | Inadvertent reactivation | 10000000000000000000000000000000000000 | N |
| 2.8.4 | Fail-safe operation | | N |
| | Protection against extreme hazard | C.C. C.C. | N |
| 2.8.5 | Moving parts | 10 10 | N |
| 2.8.6 | Overriding | 11 不能 | N |
| 2.8.7 | Switches and relays | The Bendard Samuel Comment | N |
| 2.8.7.1 | Contact gaps (mm): | 10 | N |
| 2.8.7.2 | Overload test | O BO D | N 👊 |
| 2.8.7.3 | Endurance test | 70 | √ N |
| 2.8.7.4 | Electric strength test | The state of the s | N |
| | | | |

| 2.9 | Electrical insulation | | P |
|-------|------------------------------------|--|---|
| 2.9.1 | Properties of insulating materials | T. T. Same | Р |
| 2.9.2 | Humidity conditioning | * - C * \ | Р |
| 玉 | Humidity (%),temperature (°C): | 120h, 93%RH, 40.0°C | Р |
| 2.9.3 | Grade of insulation | | P |
| 2.9.4 | Separation from hazardous voltages | The state of the s | P |
| Altr: | Method(s) used: | Method 1 used. | Р |

| 2.10 | Clearances, creepage distances and distances through insulation | | | |
|--------------|---|------------------------------|-------|--|
| 2.10.1 | General | T. B | Р | |
| 1/2s | Frequency: | 50/60Hz | Р | |
| "" | Pollution degrees: | Pollution degrees 2 | Р | |
| distance of | Reduced values for functional insulation | | P | |
| | Intervening unconnected conductive parts | 不是。 | P | |
| | Insulation with varying dimensions | # 3.0° | Р | |
| The state of | Special separation requirements | 0 0 | N sal | |
| a.C | Insulation in circuits generating starting pulses | | N N | |
| 2.10.2 | Determination of working voltage | 不是 不 | P | |
| 2.10.3 | Clearances | GO | PO | |
| 2.10.3.1 | General | -CO | Р | |
| 2.10.3.2 | Mains transient voltages | | P # 3 | |
| 110 | a)AC mains supply: | 2500V peak | P | |
| | b)Earthed d.c. mains supplies: | A BOOK OF THE REAL PROPERTY. | N | |

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| Clause | Requirement – Test | Result – Remark | Verdict | |
| ~C | c)Unearthed d.c. main supplies: | 在 | N | |
| | d)Battery operation: | E Transfer E Transfer E | N | |
| 2.10.3.3 | Clearances in primary circuits | (See appended table 2.10.3 and 2.10.4) | Р | |
| 2.10.3.4 | Clearances in secondary circuits | (See appended table 2.10.3 and 2.10.4) | Р | |
| 2.10.3.5 | Clearances in circuits having starting pulses | T. T. Common C. Branch | N | |
| 2.10.3.6 | Transients from a.c. mains supply: | Secondary circuit 1500Vpeak | Р | |
| 2.10.3.7 | Transients from d.c. mains supply: | | N | |
| 2.10.3.8 | Transients from telecommunication networks and cable distribution systems: | E TE | N | |
| 2.10.3.9 | Measurement of transient voltage levels | | N | |
| E Francisco | a)Transients from a mains supply | 100 | N | |
| | For a.c. mains supply: | | N | |
| 100 | For d.c. mains supply: | The state of the s | N | |
| | b)Transients from | - C - C | N | |
| 2.10.4 | Creepage distances | 100 | Р | |
| 2.10.4.1 | General | 45.00 | P | |
| 2.10.4.2 | Material group and comparative tracking index | The state of the s | Р | |
| 3.70 | CTI tests | Material group IIIb is assumed to be used | Р | |
| 2.10.4.3 | Minimum creepage distances | 110 | P | |
| 2.10.5 | Solid insulation | 拉那 | P | |
| 2.10.5.1 | General | -6 | P | |
| 2.10.5.2 | Distances through insulation | (See appended table 2.10.5) | Р | |
| 2.10.5.3 | Insulation compound as solid insulation | 100 | M N | |
| 2.10.5.4 | Semiconductor device | HE THE STATE OF TH | N | |
| 2.10.5.5 | Cemented joints | - C | N | |
| 2.10.5.6 | Thin sheet material - General | C S | Р | |
| 2.10.5.7 | Separable thin sheet material | | P | |
| 3 | Number or layers(pcs): | 3 layers | ation of Global | |
| 2.10.5.8 | Non-separable thin sheet material | - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | N | |
| 2.10.5.9 | Thin sheet material – standard test procedure | 20 | N | |
| Old Court | Electric strength test | 30 | N | |
| 2.10.5.10 | Thin sheet material – alternative test procedure | 下 整 | Р | |
| | Electric strength test | (See appended table 2.10.5) | V. | |

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| Clause | Requirement – Test | Result – Remark | Verdict |
| 2.10.5.11 | Insulation in wound components | (电型) 电型 | P |
| 2.10.5.12 | Wire in wound components | The state of the s | P |
| - 1 | Working voltage: | CO CO | Р |
| T. 10 | a)Basic insulation not under stress: | 10 | N |
| estation of G | b)Basic, supplementary, reinforced insulation: | 11 天意 | P |
| | c)Compliance with Annex U: | (See appended table 1.5.1) | Р |
| E THE | Two wires in contact inside wound component; angle between 45° and 90°: | Tubing used. | Р |
| 2.10.5.13 | Wire with solvent-based enamel in wound components | | N. |
| | Electric strength test | The state of the s | N |
| T | Rountine test | 2.C* | N |
| 2.10.5.14 | Additional insulation in wound components | 10 | N |
| ~ C | Working voltage | 18 18 18 18 18 18 18 18 18 18 18 18 18 1 | N |
| | -basic insulation not under stress: | 2 1 1 mm | (N |
| 2/3 | -Supplementary, reinforced insulation: | CO TO | N |
| 2.10.6 | Construction of printed boards | | ∌ P |
| 2.10.6.1 | Uncoated printed boards | (See appended table 2.10.3 and 2.10.4) | Р |
| 2.10.6.2 | Coated printed boards | -C** | N |
| 2.10.6.3 | Insulation between conductors on the same inner surface of a printed board | No. 19 | N |
| 2.10.6.4 | Insulation between conductors on different layers of a printed board | 天生 五五五 | N |
| ~ 他了 | Distance through insulation | - CO - CO | N |
| F d Good | Number of insulation layers(pcs): | | -∭ N |
| 2.10.7 | Component external terminations | 不 不 | N |
| 2.10.8 | Tests on coated printed boards and coated components | CC C | N |
| 2.10.8.1 | Sample preparation and preliminary inspection | 0, 50 | N |
| 2.10.8.2 | Thermal conditioning | - 10 | N. N |
| 2.10.8.3 | Electric strength test | K TO THE REAL PROPERTY OF THE PARTY OF THE P | N |
| 2.10.8.4 | Abrasion resistance test | C | N |
| 2.10.9 | Thermal cycling | CO P | N |
| 2.10.10 | Test for Pollution Degree 1 environment and insulating compound | THE THE | N |
| 2.10.11 | Test for semiconductor devices and cemented joints | - E - C - C | N |

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| | Les III | | Control of the contro | | |
|---------|---------------------------|------------|--|----------|---------|
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| Clause | Requirement – Test | | Result – Remark | | Verdict |
| 2.10.12 | Enclosed and sealed parts | | 42 111 | THE SAME | N |

| 3 | WIRING, CONNECTIONS AND SUPPLY | | |
|--------|--|--|---------|
| 3.1 | General | | P |
| 3.1.1 | Current rating and overcurrent protection | Adequate cross sectional areas on internal wiring. | P |
| 3.1.2 | Protection against mechanical damage | Wire do not touch sharp edges and heat sinks which could damage the insulation and cause hazard | 3CP**** |
| 3.1.3 | Securing of internal wiring | Internal wiring is reliable secured | Р |
| 3.1.4 | Insulation of conductors | Insulation on internal conductors is considered to be of adequate quality and suitable for the application and the working voltage involved. | PG |
| 3.1.5 | Beads and ceramic insulators | No such insulators provided. | N |
| 3.1.6 | Screws for electrical contact pressure | L B B B B B B B B B B B B B B B B B B B | N |
| 3.1.7 | Insulating materials in electrical connections | T. The second of the second | N |
| 3.1.8 | Self-tapping and spaced thread screws | C. C. N | N |
| 3.1.9 | Termination of conductors | | N |
| 5 | 10 N pull test | · · · · · · · · · · · · · · · · · · · | N. |
| 3.1.10 | Sleeving on wiring | | N |

| 3.2 | Connection to a mains supply | | Р |
|---------|--|--|----|
| 3.2.1 | Means of connection: | | P |
| 3.2.1.1 | Connection to an a.c. mains supply | Integrated plug | Р |
| 3.2.1.2 | Connection to a d.c. mains supply | CO CO | N |
| 3.2.2 | Multiple supply connections | 100 | N |
| 3.2.3 | Permanently connected equipment | M 55 15 | N |
| | Number of conductors, diameter (mm) of cable and conduits: | THE TANK OF THE PARTY OF THE PA | |
| 3.2.4 | Appliance inlets | C NO E | N |
| 3.2.5 | Power supply cords | - m | N |
| 3.2.5.1 | AC power supply cords | · 电影 | N |
| lin. | Type: | - 10° | |
| 格。 | Rated current (A), cross-sectional area (mm²), AWG: | SGO ES | |
| 3.2.5.2 | DC power supply cords | · 是是 | N |
| 3.2.6 | Cord anchorages and strain relief | 4 7 mm | ON |

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| Clause | Requirement – Test | Result – Remark | Verdict |
| | Mass of equipment (kg), pull (N): | 10000000000000000000000000000000000000 | |
| | Longitudinal displacement (mm): | The state of the s | |
| 3.2.7 | Protection against mechanical damage | -C - CO | N |
| 3.2.8 | Cord guards | 10 10 | N |
| and all on the second | D (mm); test mass (g) | 到 不觉 | |
| | Radius of curvature of cord (mm): | The tile and the t | |
| 3.2.9 | Supply wiring space | 6 CO 1 | N |

| 3.3 | Wiring terminals for connection of external cond | ductors | N |
|-------|--|--|----------------|
| 3.3.1 | Wiring terminals | | N |
| 3.3.2 | Connection of non-detachable power supply cords | CC TO | N |
| 3.3.3 | Screw terminals | | N sh |
| 3.3.4 | Conductor sizes to be connected | T. B. | N |
| | Rated current (A), cord/cable type, cross-sectional area (mm²) | CO PC | |
| 3.3.5 | Wiring terminal sizes | | _M N |
| 1 | Rated current (A), type and nominal thread diameter (mm): | T. T | |
| 3.3.6 | Wiring terminals design | -0" | N |
| 3.3.7 | Grouping of wiring terminals | 100 | N |
| 3.3.8 | Stranded wire | | N |

| 3.4 | Disconnection from the mains supply | C 20 | Р |
|--------|---|--|--------------|
| 3.4.1 | General requirement | Integrated plug | Р |
| 3.4.2 | Disconnect devices | | Р |
| 3.4.3 | Permanently connected equipment | The state of the s | N |
| 3.4.4 | Parts which remain energized | 60 | Р |
| 3.4.5 | Switches in flexible cords | CO E | N sal |
| 3.4.6 | Single-phase equipment and d.c. equipment | | Th Parameter |
| 3.4.7 | Three-phase equipment | A TANK OF | M N |
| 3.4.8 | Switches as disconnect devices | No such devices | N |
| 3.4.9 | Plugs as disconnect devices | -CO D | N |
| 3.4.10 | Interconnected equipment | | N # 3 |
| 3.4.11 | Multiple power sources | The state of the s | N |

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| Clause | Requirement – Test | Result – Remark | Verdict |
| 3.5 | Interconnection of equipment | 也 也 | P |
| 3.5.1 | General requirements | The state of the s | P |
| 3.5.2 | Types of interconnection circuits: | SELV circuit only. | Р |
| 3.5.3 | ELV circuits as interconnection circuits | No ELV circuits. | N |
| 3.5.4 | Data ports for additional equipment | 1 不吃 | N |

| 4 | PHYSICAL REQUIREMENTS | - CC | P |
|-----|-----------------------|--|-----|
| 4.1 | Stability | Direct plug-in equipment | : N |
| - G | Angle of 10° | | N N |
| 0 | Test: force (N) | The state of the s | N |

| 4.2 | Mechanical strength | 100 | Р |
|--------------|---|--|------------------|
| 4.2.1 | General | See below | P# |
| 110 | Rack-mounted equipment. | The state of the s | N |
| 4.2.2 | Steady force test, 10 N | No energy or other hazards. | Р |
| 4.2.3 | Steady force test, 30 N | 10 | N |
| 4.2.4 | Steady force test, 250 N | 250N applied to outer enclosure. No energy or other hazards. | Р |
| 4.2.5 | Impact test | | N |
| 3. TM | Fall test | 30 | N |
| John St. | Swing test | | N |
| 4.2.6 | Drop test; height(m) | Direct plug-in equipment (1m) | P |
| 4.2.7 | Stress relief test | 87.3℃, 7 hours, no hazard | P P |
| 4.2.8 | Cathode ray tubes | No cathode ray tube. | N |
| Annual Cicon | Picture tube separately certified: | 55 | ₩ N |
| 4.2.9 | High pressure lamps | No high pressure lamp | N ₂ % |
| 4.2.10 | Wall or ceiling mounted equipment; force (N): | Direct plug-in equipment | N |

| 4.3 | Design and construction | | P |
|-------|---|--|---|
| 4.3.1 | Edges and corners | Edges and corners are rounded. | P |
| 4.3.2 | Handles and manual controls; force (N): | 1. The state of th | N |
| 4.3.3 | Adjustable controls | 20 30 | N |
| 4.3.4 | Securing of parts | | Р |
| 4.3.5 | Connection of plugs and sockets | 不 整 | Р |
| 4.3.6 | Direct plug-in equipment | 4 3 3 4 6 6 | P |

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| Clause | Requirement – Test | Result – Remark | Verdict |
| √ C | Torque: | 0.04Nm max | P |
| | Compliance with the relevant mains plug standard | EN 50075 | |
| 4.3.7 | Heating elements in earthed equipment | No heating elements. | N |
| 4.3.8 | Batteries | No battery | N N |
| | -Overcharging of a rechargeable battery | 10000000000000000000000000000000000000 | N |
| TIM STATE OF THE S | -Unintentional charging of a non-rechargeable battery | CATANA COCHE | N |
| 香菜 | -Reverse charging of a rechargeable battery | | N |
| -C | -Excessive discharging rate for any battery | | N |
| 4.3.9 | Oil and grease | No Oil and grease. | N |
| 4.3.10 | Dust, powders, liquids and gases | Equipment in intended use not considered to be exposed to these. | N |
| 4.3.11 | Containers for liquids or gases | No containers for liquids or gases | N |
| 4.3.12 | Flammable liquids: | The equipment does not contain flammable liquid. | N |
| | Quantity of liquid (I): | . * . C . N | N |
| 五 五 | Flash point (°C): | | N |
| 4.3.13 | Radiation; type of radiation: | · · · · · · · · · · · · · · · · · · · | P P |
| 4.3.13.1 | General | The state of the s | Р |
| 4.3.13.2 | Ionizing radiation | -C | N |
| one land | Measured radiation (pA/kg): | | |
| -0 | Measured high-voltage (kV): | | |
| 0 | Measured focus voltage (kV): | 环境· | |
| 极于 | CRT markings: | -C | |
| 4.3.13.3 | Effect of ultraviolet (UV) radiation on materials | | N |
| | Part, property, retention after test, flammability classification: | 也 | N |
| 4.3.13.4 | Human exposure to ultraviolet (UV) radiation: | - C | N |
| 4.3.13.5 | Lasers (including laser diodes) and LEDs | LEDs for indicator only | Р |
| 4.3.13.5.1 | Lasers (including laser diodes) | The same and the | T N |
| | Laser class: | 大艺 工 天 | afor a |
| 4.3.13.5.2 | Light emitting diodes (LEDs) | C. S. C. | Р |
| 4.3.13.6 | Other types: | CO | N |

| 4.4 | Protection against hazardous moving parts | · · · · · · · · · · · · · · · · · · · | N |
|-------|---|---------------------------------------|---|
| 4.4.1 | General | No hazardous moving parts. | N |

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| Clause | Requirement – Test | Result – Remark | Verdict | |
| 4.4.2 | Protection in operator access areas | 10000000000000000000000000000000000000 | N | |
| 4.4.3 | Protection in restricted access locations | The state of the s | N | |
| 4.4.4 | Protection in service access areas | - C | N | |
| 4.4.5 | Protection against moving fan blades | 10 | N | |
| 4.4.5.1 | General | 1 下意 | N | |
| | Not considered to cause pain or injury. a): | The Beautiful State of State o | N | |
| A 700 | Is considered to cause pain, not injury. b): | - 1 - CO - V | N | |
| Cours | Considered to cause injury. c): | 0. 50 | N 剩 | |
| 4.4.5.2 | Protection for users | | N | |
| 9 | Use of symbol or warning | The state of the s | N | |
| 4.4.5.3 | Protection for service persons | C. 18. | N | |
| E Francisco | Use of symbol or warning: | - CO | N | |

| 4.5 | Thermal requirements | T. T | Р |
|---------------|------------------------------------|--|---|
| 4.5.1 | General | -0" | Р |
| 4.5.2 | Temperature tests | (see appended table 4.5) | Р |
| 類 Spilor of O | Normal load condition per Annex L: | 报 测 | |
| 4.5.3 | Temperature limits for materials | (see appended table 4.5) | Р |
| 4.5.4 | Touch temperature limits | (see appended table 4.5) | Р |
| 4.5.5 | Resistance to abnormal heat | (see appended table 4.5) | Р |

| 4.6 | Openings in enclosures | 不 也 | N |
|---------|--|--|----------------------|
| 4.6.1 | Top and side openings | No opening | N |
| 至 环 | Dimensions (mm) | 100 | |
| 4.6.2 | Bottoms of fire enclosures | | N |
| | Construction of the bottom: | The Barrier St. Transfer | |
| 4.6.3 | Doors or covers in fire enclosures | No doors and covers | N |
| 4.6.4 | Openings in transportable equipment | 0 | N |
| 4.6.4.1 | Constructional design measures | 70 | The Name of the last |
| | Dimensions(mm) | K TO THE STATE OF | N |
| 4.6.4.2 | Evaluation measures for larger openings | | N.C |
| 4.6.4.3 | Use of metallized parts | -CO | N |
| 4.6.5 | Adhesives for constructional purposes | No adhesives for constructional purpose. | N |
| | Conditioning temperature (°C), time (weeks): | The state of the s | |

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| Clause | Requirement – Test | Result – Remark | Verdict |
| 4.7 | Resistance to fire | · · · · · · · · · · · · · · · · · · · | P |
| 4.7.1 | Reducing the risk of ignition and spread of flame | Use of materials with the required flammability classes. | P |
| | Method 1, selection and application of components wiring and materials | Method 1 used | P |
| and all of the | Method 2, application of all of simulated fault condition tests | E THE | N |
| 4.7.2 | Conditions for a fire enclosure | With having the following parts: - components in primary - components in secondary circuits - insulated wiring the fire enclosure is required. | 3 CP |
| 4.7.2.1 | Parts requiring a fire enclosure | The fire enclosure prevent the fire spread | P |
| 4.7.2.2 | Parts not requiring a fire enclosure | - 60 | N |
| 4.7.3 | Materials | | Р |
| 4.7.3.1 | General | PCB rated V-0, fire enclosure used | P |
| 4.7.3.2 | Materials for fire enclosures | (See appended table 1.5.1) | Р |
| 4.7.3.3 | Materials for components and other parts outside fire enclosures | NO TO | N |
| 4.7.3.4 | Materials for components and other parts inside fire enclosures | Internal components except small parts are V-2 or better. | Р |
| 4.7.3.5 | Materials for air filter assemblies | No air filter assemblies | N |
| 4.7.3.6 | Materials used in high-voltage components | No high voltage components. | N |

| 5 | ELECTRICAL REQUIREMENTS AND SIMULATI | ED ABNORMAL CONDITIONS | P |
|---------|---|--------------------------|-----|
| 5.1 | Touch current and protective conductor currer | it C | Р |
| 5.1.1 | General | 100 100 | Р |
| 5.1.2 | Equipment under test (EUT) | | P |
| 5.1.2.1 | Single connection to an a.c. mains supply | E | P |
| 5.1.2.2 | Redundant multiple connections to an a.c. mains supply | CALL CO | 3 N |
| 5.1.2.3 | Simultaneous multiple connections to an a.c. mains supply | | N |
| 5.1.3 | Test circuit | T T | P P |
| 5.1.4 | Application of measuring instrument | | P |
| 5.1.5 | Test procedure | 100 | Р |
| 5.1.6 | Test measurements | | P# |
| 170 | Test voltage (V): | 264V/60Hz | |
| | Measured touch current (mA): | (see appended table 5.1) | |

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| | Max. allowed touch current (mA): | (see appended table 5.1) | |
|--|--|--|----------------|
| | Measured protective conductor current (mA): | The state of the s | |
| | Max. allowed protective conductor current (mA): | -C" | |
| 5.1.7 | Equipment with touch current exceeding 3.5 mA: | 10 | N |
| 5.1.7.1 | General: | 11 环境 | N |
| 5.1.7.2 | Simultaneous multiple connections to the supply | The Market of the Control of the Con | N |
| 5.1.8 | Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks | Carried Pool | N |
| 5.1.8.1 | Limitation of the touch current to a telecommunication network and a cable distribution system | A THE RESERVE ACT | N N |
| 手机。 | Test voltage (V) | 20 | N |
| A STATE OF THE STA | Measured touch current (mA): | 11 11 | N |
| 10 | Max. allowed touch current (mA): | The Manual Street, The Samuel Street, | N |
| 5.1.8.2 | Summation of touch currents from telecommunication networks | CC NO | N |
| T Should | a)EUT with earthed telecommunication ports: | | ₃ N |
| | b)EUT whose telecommunication ports have no reference to protective earth | A THE WAR | N |
| -3/4 | 10 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | _C"C" | 20 |
| 5.2 | Electric strength | Co No | Р |
| 5.2.1 | General | (see appended table 5.2) | P |
| 5.2.2 | Test procedure | THE TOTAL STATE OF THE PARTY OF | Р |
| 5.3 | Abnormal operating and fault conditions | GC CC | P |
| 5.3.1 | Protection against overload and abnormal operation | (see appended table 5.3) | P |
| 5.3.2 | Motors | The Barrier St. Tr. Comments | N |
| 5.3.3 | Transformers | (See appended Annex C) | Р |
| 5.3.4 | Functional insulation: | Functional insulation complied with the requirements c). | P |
| 5.3.5 | Electromechanical components | No such components | N |
| 5.3.6 | Audio amplifiers in ITE: | A STATE OF THE PARTY OF THE PAR | N |
| 5.3.7 | Simulation of faults | Result see appended table 5.3. | Р |
| 5.3.8 | Unattended equipment | | N |
| 5.3.9 | Compliance criteria for abnormal operating and fault conditions | See below | P |

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Result - Remark

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| Clause | Requirement – Test | Result – Remark | Verdict |
| 5.3.9.1 | During the tests | Neither fire burns the equipment nor molten metal. | PA |
| 5.3.9.2 | After the tests | No hazards | Р |

| 6 | CONNECTION TO TELECOMMUNICATION NETWORKS | |
|------------|---|-----|
| 6.1 | Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment | |
| 6.1.1 | Protection from hazardous voltages | |
| 6.1.2 | Separation of the telecommunication network from earth | |
| 6.1.2.1 | Requirements | |
| 9 | Test voltage (V): | - T |
| 亚 龙 | Current in the test circuit (mA): | |
| 6.1.2.2 | Exclusions: | N |

| 6.2 | | | N |
|---------|----------------------------------|-------------------------|---|
| 6.2.1 | | | N |
| 6.2.2 | Electric strength test procedure | 0 700 | N |
| 6.2.2.1 | Impulse test | | N |
| 6.2.2.2 | Steady-state test | No insulation breakdown | N |
| 6.2.2.3 | Compliance criteria | Compliance | N |

| 6.3 | Protection of the telecommunication wiring system from overheating | | | N |
|-----|--|-------|--|---|
| CO | Max. output current (A): | A THE | The transfer of | |
| | Current limiting method: | 孙 | The state of the s | |

| 7 | CONNECTION TO CABLE DISTRIBUTION SYSTEMS Genreal | | N N |
|-------|---|----------------|------|
| 7.1 | | | M es |
| 7.2 | Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment | Carrie FCC | S N |
| 7.3 | Protection of equipment users from overvoltages on the cable distribution system | · 电型 · 水电型 - 章 | N |
| 7.4 | Insulation between primary circuits and cable distribution systems | CC SCO | N |
| 7.4.1 | General | | N |
| 7.4.2 | Voltage surge test | 不整 不整 | N. |
| 7.4.3 | Impulse test | 4 7 7 7 7 | N |

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| Clause | Requirement – Test | Result – Remark | Verdict |
| A | ANNEX A, TESTS FOR RESISTANCE TO HEAT | AND FIRE | N |
| A.1 | Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2) | | |
| A.1.1 | Samples: | 100 | |
| F of Global C | Wall thickness (mm): | No. | |
| A.1.2 | Conditioning of samples; temperature (°C): | | N |
| A.1.3 | Mounting of samples: | - 5 G | - N |
| A.1.4 | Test flame (see IEC 60695-11-3) | | N |
| - 5 | Flame A, B, C or D | | |
| A.1.5 | Test procedure | B. T. B. S. | N N |
| A.1.6 | Compliance criteria | | N |
| # The com | Sample 1 burning time (s): | . CO | |
| Attestance | Sample 2 burning time (s): | 71 | |
| 10 | Sample 3 burning time (s): | T. 格. | |
| A.2 | Flammability test for fire enclosures of movable ed exceeding 18 kg, and for material and components 4.7.3.2 and 4.7.3.4) | | N |
| A.2.1 | Samples, material: | # W | |
| | Wall thickness (mm): | | |
| A.2.2 | Conditioning of samples | -0" | N |
| A.2.3 | Mounting of samples: | 10 50 | N |
| A.2.4 | Test flame (see IEC 60695-11-4) | | N |
| O | Flame A, B or C: | 不是 等 | |
| A.2.5 | Test procedure | -0" -0 | N |
| A.2.6 | Compliance criteria | 100 | N |
| metallon." | Sample 1 burning time (s): | | |
| 170 | Sample 2 burning time (s): | The Bankon St. St. of S | |
| | Sample 3 burning time (s): | 100 | |
| A.2.7 | Alternative test acc. To IEC 60695-2-2, cl. 4 and 8 | 0 20 | N |
| -G | Sample 1 burning time (s): | | |
| 9 | Sample 2 burning time (s): | KE THE THE THE THE THE THE THE THE THE TH | |
| -TILL | Sample 3 burning time (s) | C % | |
| A.3 | Hot flaming oil test (see 4.6.2) | 100 P | N |
| A.3.1 | Mounting of samples | | N |
| A.3.2 | Test procedure | The state of the s | N |
| A.3.3 | Compliance criterion | The Care of the Ca | N |

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| Clause | Requirement – Test | Result – Remark | Verdict |
| ~(| 30 | 1 电影 | 不恒 |
| В | ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2) | CONDITIONS (see 4.7.2.2 and | N |
| B.1 | General requirements | No motor | N |
| The Clopes | Position | 16 | |
| | Manufacturer: | · · · · · · · · · · · · · · · · · · · | |
| THE STATE OF | Туре | 2.C | |
| Compliant | Rated values | C 10 1 | |
| B.2 | Test conditions | | N |
| B.3 | Maximum temperatures | · · · · · · · · · · · · · · · · · · · | N |
| B.4 | Running overload test | \$ 3.00 CO | N |
| B.5 | Locked-rotor overload test | - CO | N |
| all results | Test duration (days): | | |
| 10 | Electric strength test: test voltage (V): | TK 15 | |
| B.6 | Running overload test for d.c. motors in secondary circuits | 18.2 CC 8.2 N | N |
| B.6.1 | General | | - N |
| B.6.2 | Test procedure | 张 | N |
| B.6.3 | Alternative test procedure | - 1 3 days - 1 3 days | N |
| B.6.4 | Electric strength test; test voltage (V) | 30 300 | N |
| B.7 | Locked-rotor overload test for d.c. motors in secon | dary circuits | N |
| B.7.1 | Test procedure | 下 型 | N |
| B.7.2 | Alternative test procedure; test time (h) | The state of the s | N |
| B.7.3 | Electric strength test | " " CO" \ CO | N |
| B.8 | Test for motors with capacitors | | -∭ N |
| B.9 | Test for three-phase motors | 100 | N |
| B.10 | Test for series motors | The second of th | N |
| | Operating voltage (V): | - 10 S | |
| | 60 10 | ,0 | 15 |
| С | ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3. | 3) | P |
| | Position: | Soldered on PCB (T1) | |
| ATT. SA | Manufacturer: | See components list. | |
| Company | Туре | Ditto | |
| - 0 | Rated values: | 大型 工程 | |
| 13/2 | Method of protection: | Protective circuit | |

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| Clause | Requirement – Test | Result – Remark | Verdict |
| C.1 | Overload test | Transformers for switch mode power supply units are tested in the complete power unit or in the complete equipment .test load are applied to the output of the power supply unit | P |
| C.2 | Insulation | (see appended table 5.2) | P |
| | Protection from displacement of windings: | The state of the s | Р |
| T THE | | -13.00 | 30 |
| 0 4 | ANNEX D, MEASURING INSTRUMENTS FOR TO | DUCH-CURRENT TESTS (see 5.1.4) | P |
| D.1 | Measuring instrument | | Th P |
| D.2 | Alternative measuring instrument | The state of the s | N |
| 不起 | T. B. T. | C.* | 10 |
| E Francisco | ANNEX E, TEMPERATURE RISE OF A WINDING | 6 (see 1.4.13) | N |
| | C CO | | 4 |
| F | ANNEX F, MEASUREMENT OF CLEARANCES A (see 2.10) | AND CREEPAGE DISTANCES | C P |
| G F | ANNEX G, ALTERNATIVE METHOD FOR DETER | RMINING MINIMUM CLEARANCES | N |
| G.1 | Clearances | The state of the s | N |
| G.1.1 | General | C3 - C3 | N |
| G.1.2 | Summary of the procedure for determining minimum clearances | Sec Fo | N |
| G.2 | Determination of mains transient voltage (V): | 下型 下型。 | N |
| G.2.1 | AC mains supply | The second second | N |
| G.2.2 | DC mains supply | 60 | N |
| G.2.3 | Unearthed DC mains supply: | | M N |
| G.2.4 | Battery operation: | 不到 不是 | N |
| G.3 | Determination of telecommunication network transient voltage (V): | CC. | N R |
| G.4 | Determination of required withstand voltage (V) .: | 0. 50 | N |
| G.4.1 | Mains transients and internal repetitive peaks: | - 10 | N |
| 3.4.2 | Transients from telecommunication networks: | 大量 | anion di San |
| G.4.3 | Combination of transients | | N |
| G.4.4 | Transients from cable distribution systems | -CO P | N |
| G.5 | Measurement of transient levels (V): | | N |
| | | 13 m Ch 1m | 19% |

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a) Transients from a mains supply

For an a.c. mains supply



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|---------|--|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict |
| _ (| For a d.c. mains supply | 在 | N |
| | b) Transients from a telecommunication network | M. H. delle L. H. School L. S. | N |
| G.6 | Determination of minimum clearances: | -G - GC | N |
| 五 环 是 | -C" -C" >V | 10 | -111 |
| H | ANNEX H, IONIZING RADIATION (see 4.3.13) | 11 不整 | N |
| | | The Section of the Se | C. F. |
| J | ANNEX J, TABLE OF ELECTROCHEMICAL POT | ENTIALS (see 2.6.5.6) | N |
| 0000 | Metal used: | | |
| -C | | - 10 | The street of th |
| K | ANNEX K, THERMAL CONTROLS (see 1.5.3 and | 5.3.7) | N |
| K.1 🗼 🧐 | Making and breaking capacity | | N |
| K.2 | Thermostat reliability; operating voltage (V): | 100 | N |
| K.3 | Thermostat endurance test; operating voltage (V) | THE THE PARTY OF T | N |
| K.4 | Temperature limiter endurance; operating voltage (V): | ST. CC ST. NO. | N |
| K.5 | Thermal cut-out reliability | | - N |
| K.6 | Stability of operation | 张 <u>格</u> 加加 | N |
| | · · · · · · · · · · · · · · · · · · · | | |
| L TAN | ANNEX L, NORMAL LOAD CONDITIONS FOR S BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1) | OME TYPES OF ELECTRICAL | Р |
| L.1 | Typewriters | | N ® |
| L.2 | Adding machines and cash registers | 环境, | N |
| L.3 | Erasers | -0 | N |
| L.4 | Pencil sharpeners | 100 | N |
| L.5 | Duplicators and copy machines | The state of the s | N |
| L.6 | Motor-operated files | The state of the s | N |
| L.7 | Other business equipment | CO \ | P |
| -65. | -50 -6 | ,C * | |
| M | ANNEX M, CRITERIA FOR TELEPHONE RINGIN | G SIGNALS (see 2.3.1) | N |
| M.1 | Introduction | K TO THE TOTAL OF | N |
| M.2 | Method A | C 8.2 CO | N |
| M.3 | Method B | -CO | N |
| M.3.1 | Ringing signal | | N a |

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Frequency (Hz):

Voltage (V):

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M.3.1.1

M.3.1.2



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| Clause | Requirement – Test | Result – Remark | Verdic |
| M.3.1.3 | Cadence; time (s), voltage (V): | 1 电型 电型 | |
| M.3.1.4 | Single fault current (mA): | M. T. Market and T. M. Market and T. M. Market and T. M. M. Market and T. M. | |
| M.3.2 | Tripping device and monitoring voltage: | 7 - 6 | N |
| M.3.2.1 | Conditions for use of a tripping device or a monitoring voltage | | N |
| M.3.2.2 | Tripping device | | N |
| M.3.2.3 | Monitoring voltage (V): | -6 | N |
| Controller | | C. S. S. | |
| C | ANNEX N, IMPULSE TEST GENERATORS (see a clause G.5) | 2.10.3.4, 6.2.2.1, 7.3.2 and | Th N |
| V.1 | ITU-T impulse test generators | -C | N |
| N.2 | IEC 60065 impulse test generator | 200 | N |
| attendance of the | -# 3 C * 10 | 30 | |
| P . C | ANNEX P, NORMATIVE REFERENCES | 43 48 | N |
| | | - Financia de Francis | G |
| Q | ANNEX Q, Voltage dependent resisters (VDRS) | (see 1.5.9.1) | N |
| 李 孙。 | -Preferred climatic categories: | No VDR used | _M N |
| | -Maximum continuous voltage: | 环境。 | N |
| | -Combination pulse current: | The state of the s | N |
| 7M Language | Body of the VDR Test according to IEC 60695-11-5 | CC . 500 | N |
| GC ³ | Body of the VDR. Flammability class of material (min V-1): | 在型 天生型 | N |
| | | - C3 | Mostation |
| R TA | ANNEX R, EXAMPLES OF REQUIREMENTS FOR PROGRAMMES | R QUALITY CONTROL | N |
| R.1 | Minimum separation distances for unpopulated coated printed boards (see 2.10.6) | 不是那 第三天 | N |
| R.2 | Reduced clearances (see 2.10.3) | - C.C. | N |
| 46. | - C | | |
| S | ANNEX S, PROCEDURE FOR IMPULSE TESTIN | G (see 6.2.2.3) | N |
| S.1 | Test equipment | K TO THE STATE OF | anion of Co. N |
| S.2 | Test procedure | C 3 | N |
| S.3 | Examples of waveforms during impulse testing | - CO P | N |
| | C. CO | | d |
| г 🌿 | ANNEX T, GUIDANCE ON PROTECTION AGAIN | ST INGRESS OF WATER | N |

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| Clause | Requirement – Test | Result – Remark | Verdict |
| | 30 300 | 大龙洲 俊测 | 不怕 |
| U | ANNEX U, INSULATED WINDING WIRES FOR UNSULATION (see 2.10.5.4) | JSE WITHOUT INTERLEAVED | Р |
| 不绝 | | | |
| V | ANNEX V, AC POWER DISTRIBUTION SYSTEM | IS (see 1.6.1) | P |
| V.1 | Introduction | 在那 生活 | Р |
| V.2 | TN power distribution systems | -G | Р |
| Coupling | - K - C - C - C | C N B | |
| W | ANNEX W, SUMMATION OF TOUCH CURRENT | S | N |
| W.1 | Touch current from electronic circuits | 电型 乐电子 鱼 | N |
| W.1.2 | Earthed circuits | | N |
| W.2 | Interconnection of several equipments | - 60 | N |
| W.2.1 | Isolation | | N |
| W.2.2 | Common return, isolated from earth | 不 是 | N |
| W.2.3 | Common return, connected to protective earth | E Training | N |
| <i>L</i> ' | | 7" - CO D | |
| X | ANNEX X, MAXIMUM HEATING EFFECT IN TRA | ANSFORMER TESTS (see clause | N |
| X.1 | Determination of maximum input current | | |
| | Dotor material maximum input our one | The state of the s | N |
| X.2 | Overload test procedure | 20° 20° | N N |
| X.2 | | CC. CC. | |
| OTT PARTY | | G TEST (see 4.3.13.3) | |
| Y_ C | Overload test procedure | G TEST (see 4.3.13.3) | N |
| Y Y.1 | Overload test procedure ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN | T. T. T. | N N |
| Y.1 Y.2 | Overload test procedure ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN Test apparatus | The Co | N N N |
| Y.1 Y.2 Y.3 | Overload test procedure ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN Test apparatus: Mounting of test samples: | * CC * CC | N N N N |
| Y.1 Y.2 Y.3 | Overload test procedure ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN Test apparatus | * CC * CC | N N N N N |
| Y.1 Y.2 Y.3 Y.4 | Overload test procedure ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN Test apparatus | TO TO | N N N N N |
| X.2 Y Y.1 Y.2 Y.3 Y.4 | ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN Test apparatus: Mounting of test samples: Carbon-arc light-exposure apparatus: Xenon-arc light exposure apparatus: | TO TO | N N N N N N |
| Y.1 Y.2 Y.3 Y.4 | ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN Test apparatus: Mounting of test samples: Carbon-arc light-exposure apparatus: Xenon-arc light exposure apparatus: | TO TO | N N N N N N |
| Y Y.1 Y.2 Y.3 Y.4 | ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN Test apparatus | TO TO | N N N N N N |
| Y Y.1 Y.2 Y.3 Y.4 | ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN Test apparatus | .10.3.2 and Clause G.2) | N N N N N N |
| Y Y.1 Y.2 Y.3 Y.4 | ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN Test apparatus | .10.3.2 and Clause G.2) | N N N N N N |
| Y Y.1 Y.2 Y.3 Y.4 | ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN Test apparatus | .10.3.2 and Clause G.2) | N N N N N N |
| Y Y.1 Y.2 Y.3 Y.4 Z | ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN Test apparatus | .10.3.2 and Clause G.2) | N N N N N N N N N N N N N N N N N N N |

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| Clause | Requirement – Test | Result – Remark | Verdict | |
| CC.3 | Test program 2 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N | |
| CC.4 | Test program 3 | | N | |
| CC.5 | Compliance: | -0" -0" | N | |

| DD | ANNEX DD, requirements for the mounting means of rack-mounted equipment | | N |
|------|---|---|---|
| DD.1 | General | T. 18 | N |
| DD.2 | Mechanical strength test, variable N: | 1 TO 1 | N |
| DD.3 | Mechanical strength test, 250N, including end stops: | | N |
| DD.4 | Compliance: | E TO THE STATE OF | N |

| EE The | ANNEX EE, Household and home/office document/media shredders | | |
|------------|--|---------------------------|---|
| EE.1 | General | | N |
| EE.2 | Marking and instructions | The Market of The Company | N |
| | Use of markings or symbols: | * C \ \C | N |
| 华环 | Information of user instructions, maintenance and/or servicing instructions: | , FOO E | N |
| EE.3 | Compliance: | 下 也 | N |
| EE.4 | Disconnection of power to hazardous moving parts | -C3 - CC3 | N |
| Complianos | Use of markings or symbols: | 0 50 | N |
| EE.5 | Protection against hazardous moving parts | | N |
| O | Test with test finger (figure 2A): | 环境。 一年光 | N |
| | Test with wedge probe (figure EE1 and EE2): | -C - CO | N |

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| Clause | Requirem | nent – Test | | | Result – Re | mark | Verdict |
| ~ C | EN 60950 | -1:2006/A11:2 | 009/A1:2010 | /A12:2011 – CEN | IELEC COMM | ON MODIFICATION | S |
| Contents (A2:2013) | Add the following annexes: Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Special national conditions Annex ZD (informative) IEC and CENELEC code designations for flexible cords | | | | | P | |
| General | | the —country to the followir | | reference docun | nent (IEC 6095 | 60-1:2005) | - P |
| | 1.4.8 | Note 2 | 1.5.1 | Note 2 & 3 | 1.5.7.1 | Note | THE A |
| | 1.5.8 | Note 2 | 1.5.9.4 | Note | 1.7.2.1 | Note 4, 5 & 6 | The Walland |
| | 2.2.3 | Note | 2.2.4 | Note | 2.3.2 | Note | - (3 |
| | 2.3.2.1 | Note 2 | 2.3.4 | Note 2 | 2.6.3.3 | Note 2 & 3 | |
| | 2.7.1 | Note | 2.10.3.2 | Note 2 | 2.10.5.13 | Note 3 | - T |
| | 3.2.1.1 | Note | 3.2.4 | Note 3 | 2.5.1 | Note 2 | |
| | 4.3.6 | Note 1 & 2 | 4.7 | Note 4 | 4.7.2.2 | Note | |
| | 4.7.3.1 | Note 2 | 5.1.7.1 | Note 3 & 4 | 5.3.7 | Note 1 | |
| | 6 | Note 2 & 5 | 6.1.2.1 | Note 2 | 6.1.2.2 | Note | 7111 |
| | 6.2.2 | Note | 6.2.2.1 | Note 2 | 6.2.2.2 | Note | |
| | 7.1 | Note 3 | 7.2 | Note | 7.3 | Note 1 & 2 | 10° |
| | G.2.1 | Note 2 | Annex H | Note 2 | | | |
| General (A1:2010) | | the "country" ig to the following | | eference docume | ent (IEC 60950 | -1:2005/A1:2010) | P |
| | 1.5.7.1 | Note | | 6.1.2.1 | Note 2 | | A STATE OF GIVE |
| 4. 形 | 6.2.2.1 | Note 2 | The state of the s | EE.3 | Note | 7 | |
| General A2:2013) | according 2.7.1 6.2.2. | to the following Note * Note | ng list: | eference docume 2.10.3.1 Modification rem | Note 2 | -1:2005/A2:2013) | |
| 1.1.1 A1:2010) | Replace t NOTE 3 To multimedia | the text of NOT he requirements | TE 3 by the fo of EN 60065 e IEC Guide 1 | | o meet safety re | quirements for | 5 J. |

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| ~ C | EN 60950-1:2006/A11:2009/A1:2010/A12:2011 - CENELEC COMMON MODIFICATION | S |
| 1.3.Z1 | Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - | SO E |
| A12:2011) | Delete the addition of 1.3.Z1 / EN 60950-1:2006 | P |
| 1.5.1 | Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010 Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC | Р |
| 1.7.2.1 (A1:2010) | In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss. | N |
| 1.7.2.1 (A12.2011) | In EN 60950-1:2006/A12:2011 Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments. | N |
| | Zx Protection against excessive sound pressure from personal music players | N |

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| | EN 60950-1:2006/A11:2009/A1:2010/ | A12:2011 – CENELEC COMMON MODIFICAT | TONS |
| T. W. | from personal music players that are | ts for protection against excessive sound press closely coupled to the ear. It also specifies aphones intended for use with personal music | sure |
| | primarily uses headphones or earplears; allows the user to walk around while NOTE 1 Examples are hand-held or least to the second s | en to recorded or broadcast sound or video; and nones that can be worn in or on or around the | C The state of the |
| | personal music players shall comply | es or headphones intended to be used with with the requirements of this sub-clause. are valid for music or video mode only. | NO. |
| | The requirements do not apply: - while the personal music player is c - while the headphones or earphor NOTE 2 An external amplifier is an air | onnected to an external amplifier; or | e Maria |
| | products sold through normal electron equipment analogue personal music players (p | ssional equipment; quipment sold through special sales channels. A nics stores are considered not to be professional personal music players without any kind of digital nat are brought to the market before the end of | al The state of th |
| | and it is expected that within a few ye be extended to other technologies. | owed because this technology is falling out of users it will no longer exist. This exemption will no | ot |
| | of EN 71-1 apply. | ned or intended for use by young children, the li | mits |

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| lause | Requirement – Test Result – Rem | nark | Verdict |
| - C | EN 60950-1:2006/A11:2009/A1:2010/A12:2011 - CENELEC COMMO | N MODIFICATIONS | 100 |
| | Zx.2 Equipment requirements | · · | N |
| | No safety provision is required for equipment that complies with the fo equipment provided as a package (personal music player with its | | |
| | where the acoustic output LAeq,T is ≤ 85 dBA measured while pla "programme simulation noise" as described in EN 50332-1; and | 100 | |
| | a personal music player provided with an analogue electrical output listening device, where the electrical output is ≤ 27 mV measured EN 50332-2, while playing the fixed "programme simulation noise" EN 50332-1. | as described in | |
| | NOTE 1 Wherever the term acoustic output is used in this clause, the equivalent sound pressure level LAeq,T is meant. See also Zx.5 and A | | |
| | | 电子 五年 | |
| | All other equipment shall: | | |
| | a) protect the user from unintentional acoustic outputs exceeding those above; and | | |
| | b) have a standard acoustic output level not exceeding those mentions automatically return to an output level not exceeding those mentions power is switched off; and | | |
| | c) provide a means to actively inform the user of the increased sound the equipment is operated with an acoustic output exceeding those Any means used shall be acknowledged by the user before activating operation which allows for an acoustic output exceeding those ment acknowledgement does not need to be repeated more than once every letter that the condition of the condition o | mentioned above. ng a mode of ioned above. The | |
| | cumulative listening time; and NOTE 2 Examples of means include visual or audible signals. Action always required. | - C | |
| | NOTE 3 The 20 h listening time is the accumulative listening time, ind often and how long the personal music player has been switched off. | lependent how | |
| | d) have a warning as specified in Zx.3; and e) not exceed the following: | | |
| | 1) equipment provided as a package (player with Its listening device output—shall be ≤ 100 dBA measured while playing the fixed "progran noise" described in EN 50332-1; and | | |
| | 2) a personal music player provided with an analogue electrical out listening device, the electrical output shall be ≤ 150 mV measured as 50332-2, while playing the fixed "programme simulation noise" describe | described in EN | |
| | For music where the average sound pressure (long term LAeq,T) mea | F of Glove | |
| | duration of the song is lower than the average produced by the progranoise, the warning does not need to be given as long as the average the song is below the basic limit of 85 dBA. In this case T becomes the | amme simulation sound pressure of | |
| | song. NOTE 4 Classical music typically has an average sound pressure (lor | ng term LAeq,T) | |
| | which is much lower than the average programme simulation noise. T player is capable to analyse the song and compare it with the program noise, the warning does not need to be given as long as the average s | nme simulation | |
| | the song is below the basic limit of 85 dBA. For example, if the player is set with the programme simulation noise | -11 | |
| | average music level of the song is only 65 dBA, there is no need to gi ask an acknowledgement as long as the average sound level of the so | ve a warning or | |

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| | | EN 60950-1 | |
|-------------------|---|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict |
| ~ C | EN 60950-1:2006/A11:2009/A1:2010/ | A12:2011 - CENELEC COMMON MODIFICATIONS | 人相。 |
| T. T. Sand | Zx.3 Warning The warning shall be placed on the edmanual and shall consist of the follow the symbol of Figure 1 with a number the following wording, or similar | ninimum height of 5 mm; and | N |
| | periods." | ning label (IEC 60417-6044) | |
| | Alternatively, the entire warning may use, when the user is asked to acknow | be given through the equipment display during wledge activation of the higher level. | |
| designed of Green | | vices (headphones and earphones) | N |
| A.C. | simulation noise" described in EN 503 This requirement is applicable in any or passive), including any available setti | Aeq,T, the input voltage of the fixed "programme | O N |
| GC [®] | 50332-1 (and respecting the digital instandard exists that specifies the equivalent of the listening device shall be ≤ 100 of the list | xed "programme simulation noise" described in EN terface standards, where a digital interface ivalent acoustic level), the acoustic output LAeq,T | N The state of the |
| | sound feature like equalization, etc.). | n device with digital input is a LICD beautabase | |
| 3C** | Zx.4.3 Wireless listening devices In wireless mode: - with any playing and transmitting devices described in EN 50332-1; and - respecting the wireless transmission that specifies the equivalent acout with volume and sound settings in the level control, additional sound fear of positions that maximize the meaning settings in the setting of positions that maximize the meaning settings in the setting se | evice playing the fixed programme simulation noise in standards, where an air interface standard exists stic level; and he listening device (for example built-in volume sture like equalization, etc.) set to the combination easured acoustic output for the abovementioned acoustic output LAeq,T of the listening device shall | N N |

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| | EN 60950-1 | | |
|-------------|---|---------------------------|---------------------------------------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| | EN 60950-1:2006/A11:2009/A1:2010/A12:2011 – CEN | ELEC COMMON MODIFICATIONS | 不是 |
| | Zx.5 Measurement methods Measurements shall be made in accordance with EN 5 applicable. Unless stated otherwise, the time interval To NOTE Test method for wireless equipment provided widefined. | Γ shall be 30 s. | N |
| 2.7.1 3G | Replace the subclause as follows: Basic requirements To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment; 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; | | N N N N N N N N N N N N N N N N N N N |
| A. T. S. | 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. 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. | | C N |
| 2.7.2 | This subclause has been declared 'void'. | -0" | N |
| 3.2.3 | Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses. | | N |
| 3.2.5.1 | Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2". In Table 3B, replace the first four lines by the following: Up to and including 6 0,75 a) Over 6 up to and including 10 (0,75) b) 1,0 Over 10 up to and including 16 (1,0) c) 1,5 In the conditions applicable to Table 3B delete the words "in some countries" in condition a). | | N N |
| 3.3.4 | In NOTE 1, applicable to Table 3B, delete the second In Table 3D, delete the fourth line: conductor sizes for following: Over 10 up to and including 16 1,5 to 2,5 1,5 to 4 | AIL 1977 | N |

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| | EN 60 | 950-1 | |
|-----------------------|---|--|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| ~ C | EN 60950-1:2006/A11:2009/A1:2010/A12:20 | 11 - CENELEC COMMON MODIFICATIONS | 人相思 |
| 4.3.13.6 (A1:2010) | NOTE Z1 Attention is drawn to: | | N |
| | 1999/519/EC: Council Recommendation on t public to electromagnetic fields 0 Hz to 300 C | | |
| attendation of | 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation). | | # F |
| 拉利 | Standards taking into account mentioned Reddemonstrate compliance with the applicable | | S N |
| Annex H | Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level. Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2. | | N.W. |
| Bibliograph y | Additional EN standards. | A T. | C. |

| ZA | NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR | _ |
|-------------|---|---|
| The same of | CORRESPONDING EUROPEAN PUBLICATIONS | |

| EN 60950-1 | | | |
|------------|---|--|---------------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| C.* | ZB ANNEX (normative) SF | PECIAL NATIONAL CONDITIONS (EN) | 大地 |
| 1.2.4.1 | In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets. | | Manufacture N |
| 1.2.13.14 | In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex. | | N |
| 1.5.7.1 | In Finland , Norway and Sweden , resisters bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resister is used, the resister must withstand the resister test in 1.5.7.2. | | N -C |
| 1.5.8 | In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V). | | N |
| 1.5.9.4 | In Finland , Norway and Sweden , the equipment as defined in 6.1.2.2 of this | e third dashed sentence is applicable only to s annex. | The N |

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| EN 60950-1 | | | |
|----------------------|---|---|---|
| Clause | Requirement – Test | Result – Remark | Verdict |
| √ C | ZB ANNEX (normative) SPECIAL NA | ATIONAL CONDITIONS (EN) | 16 |
| 1.7.2.1 | In Finland , Norway and Sweden , CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. | | N |
| | The marking text in the applicable countries shall be as follows: | | |
| | In Finland: "Laite on liitettävä suojakoskettimilla | | |
| | In Norway: "Apparatet må tilkoples jordet stikkor | ntakt" | |
| | In Sweden: "Apparaten skall anslutas till jordat u | ittag" | |
| | In Norway and Sweden , the screen of the cable earthed at the entrance of the building and there system within the building. Therefore the protect need to be isolated from the screen of a cable d It is however accepted to provide the insulation | is normally no equipotential bonding ive earthing of the building installation stribution system. | |
| | adapter or an interconnection cable with galvani e.g. a retailer. | c isolator, which may be provided by | |
| | The user manual shall then have the following o Swedish language respectively, depending on ir intended to be used in: | | |
| | "Equipment connected to the protective earthing mains connection or through other equipment w — and to a cable distribution system using coaxia create a fire hazard. Connection to a cable distriprovided through a device providing electrical is range (galvanic isolator, see EN 60728-11)." | ith a connection to protective earthing all cable, may in some circumstances bution system has therefore to be | |
| CC. | NOTE In Norway, due to regulation for installation in Sweden, a galvanic isolator shall provide election insulation shall withstand a dielectric strength of min. | trical insulation below 5 MHz. The | N. T. |
| | Translation to Norwegian (the Swedish text will a | also be accepted in Norway): | |
| | "Utstyr som er koplet til beskyttelsesjord via nett utstyr – og er tilkoplet et kabel-TV nett, kan forå skal det ved tilkopling av utstyret til kabel-TV ne mellom utstyret og kabel- TV nettet." | sake brannfare. For å unngå dette | |
| | Translation to Swedish: | - 1 CO | |
| GC *** | "Utrustning som är kopplad till skyddsjord via jor utrustning och samtidigt är kopplad till kabel-TV brand. Főr att undvika detta skall vid anslutning galvanisk isolator finnas mellan utrustningen och | nät kan i vissa fall medfőra risk főr av utrustningen till kabel-TV nät | The Management |
| 1.7.2.1 (A2:2013) | In Denmark , CLASS I PLUGGABLE EQUIPMED other equipment or a network shall, if safety relied if surge suppressors are connected between the parts, have a marking stating that the equipmen mains socket-outlet. The marking text in Denmark shall be as follows skal tilsluttes en stikkontakt med jord, som giver | NT TYPE A intended for connection to es on connection to protective earth or network terminals and accessible t must be connected to an earthed s: In Denmark : "Apparatets stikprop | N |

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| Clause | Requirement – Test Result – Remark | Verdict | | | |
|------------------|--|---------|--|--|--|
| ~ C | ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN) | 1 10 10 | | | |
| 1.7.5 | In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b DK 1-5a. For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a. | | | | |
| .7.5 A2:2013) | In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2-D1:2011. For class I equipment the following Standard Sheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exception for STATIONARY EQUIPMENT where the socket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a. Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with by DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b. Justification the Heavy Current Regulations, 6c | | | | |
| 2.2.4 | In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex. | | | | |
| 2.3.2 | In Finland , Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex. | | | | |
| 2.3.4 | In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex. | | | | |
| .6.3.3 | In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not A. | 16 P | | | |
| 2.7.1 | In the United Kingdom , to protect against excessive currents and short-circuits in t PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall conducted, using an external protective device rated 30 A or 32 A. If these tests fail suitable protective devices shall be included as integral parts of the DIRECT PLUG-EQUIPMENT, so that the requirements of 5.3 are met. | l be | | | |
| 2.10.5.13 | In Finland , Norway and Sweden , there are additional requirements for the insulation see 6.1.2.1 and 6.1.2.2 of this annex. | on, N | | | |
| 3.2.1.1 | In Switzerland , supply cords of equipment having a RATED CURRENT not exceed 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and on of the following dimension sheets: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A | A | | | |
| | plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998: SEV 5932-2.1998: Plug Type 25, 3L+N+PE 230/400 V, 16 A | | | | |
| | SEV 5933-2.1998:Plug Type 21, L+N, 250 V, 16A | | | | |
| | | B 22 3 | | | |

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| | | EN 60950-1 | | | | |
|----------|---|--|----------------|--|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict | | | |
| <u> </u> | ZB ANNEX (normative) SF | PECIAL NATIONAL CONDITIONS (EN) | 不懂 | | | |
| 3.2.1.1 | exceeding13 A shall be provided with Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with intended to be used in locations where according to the wiring rules shall be pasheet DK 2-1a or DK 2-5a. | hase equipment having a rated current not a plug according to the Heavy Current socket-outlets with earth contacts or which are e protection against indirect contact is required provided with a plug in accordance with standard hase equipment having a RATED CURRENT | N | | | |
| | accordance with the Heavy Current R | oply cord with a plug, this plug shall be in egulations, Section 107-2-D1 or EN 60309-2. | 1000 | | | |
| 3.2.1.1 | exceeding 10 A shall be provided with | e equipment having a rated current not a plug according to UNE 20315:1994. | and Cappy on N | | | |
| | shall be provided with a plug according | | | | | |
| | intended to be used in locations where according to the wiring rules, shall be UNE 20315:1994. | socket-outlets with earth contacts or which are e protection against indirect contact is required provided with a plug in accordance with standard | | | | |
| 16 | If poly-phase equipment is provided was accordance with UNE-EN 60309-2. | vith a supply cord with a plug, this plug shall be in | | | | |
| 3.2.1.1 | designed to be connected to a mains flexible cable or cord and plug, shall b Statutory Instrument 1768:1994 - The 1994, unless exempted by those regulation NOTE 'Standard plug' is defined in SI | 1768:1994 and essentially means an approved | P | | | |
| 3.2.1.1 | plug conforming to BS 1363 or an approved conversion plug. In Ireland , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997. | | | | | |
| 3.2.4 | In Switzerland, for requirements see | 3.2.1.1 of this annex. | N | | | |
| 3.2.5.1 | In the United Kingdom , a power sup for equipment with a rated current over | ply cord with conductor of 1,25 mm2 is allowed er 10 A and up to and including 13 A. | N | | | |
| 3.3.4 | In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is: • 1,25 mm² to 1,5 mm² nominal cross-sectional area. | | | | | |
| 4.3.6 | In the United Kingdom , the torque te with BS 1363 part 1:1995, including A the plug part of DIRECT PLUG-IN EQ 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 1 12.17 is performed at not less than 12 | est is performed using a socket outlet complying amendment 1:1997 and Amendment 2:2003 and aUIPMENT shall be assessed to BS 1363: Part 1, 2.13, 12.16 and 12.17, except that the test of 25 °C. Where the metal earth pin is replaced by (ISOD), the requirements of clauses 22.2 and 23 | PG | | | |

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| | EN 609 | 50-1 | | | |
|----------------------|---|--|---------|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict | | |
| √ C | ZB ANNEX (normative) SPECIAL | NATIONAL CONDITIONS (EN) | 不相 | | |
| 4.3.6 | In Ireland, DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997. | | | | |
| 5.1.7.1 | In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; | | | | |
| | STATIONARY PLUGGABLE EQUIPMENT T STATIONARY PERMANENTLY CONNECTED | | | | |
| 6.1.2.1 (A1:2010) | In Finland, Norway and Sweden, add the foll paragraph of the compliance clause: If this insulation is solid, including insulation for least consist of either - two layers of thin sheet material, each of while below, or | owing text between the first and second rming part of a component, it shall at | N | | |
| | one layer having a distance through insulation the electric strength test below. Alternatively for components, there is no distate the insulation consisting of an insulating component CLEARANCES and CREEPAGE DISTAN passes the electric strength test in accordance in addition | nce through insulation requirements for ound completely filling the casing, so ICES do not exist, if the component | | | |
| | passes the tests and inspection criteria of 2.7 kV multiplied by 1,6 (the electric strength test kV), and | of 2.10.10 shall be performed using 1,5 | | | |
| | - is subject to ROUTINE TESTING for electric test voltage of 1,5 kV. | 利 | | | |
| | It is permitted to bridge this insulation with an It is permitted to bridge this insulation with a can 14:2005, subclass Y2. | apacitor complying with EN 60384- | | | |
| | A capacitor classified Y3 according to EN 603 under the following conditions: | 发想 电影 | | | |
| | - the insulation requirements are satisfied by defined by EN 60384-14, which in addition to test of 2,5 kV defined in EN 60950-1:2006, 6.2 | the Y3 testing, is tested with an impulse 2.2.1; | | | |
| | - the additional testing shall be performed on a 60384-14: | 10000000000000000000000000000000000000 | | | |
| | - the impulse test of 2,5 kV is to be performed 14, in the sequence of tests as described in E | | | | |

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| | | EN 60950-1 | |
|---------|--|---|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| ~(| ZB ANNEX (normative) |) SPECIAL NATIONAL CONDITIONS (EN) | 不恒 |
| 6.1.2.2 | intended to be used in a RESTRIC bonding has been applied, e.g. in a provision for a permanently connection. | the exclusions are applicable for PERMANENTLY GGABLE EQUIPMENT TYPE B and equipment CTED ACCESS LOCATION where equipotential a telecommunication centre, and which has cted PROTECTIVE EARTHING CONDUCTOR and a installation of that conductor by a SERVICE | N |
| 7.2 | annex. | for requirements see 6.1.2.1 and 6.1.2.2 of this N NETWORK in 6.1.2 being replaced by the term | N M |
| 7.3 | In Norway and Sweden , for require | rements see 1.2.13.14 and 1.7.2.1 of this annex. | N |
| 7.3 | In Norway, for installation conditio | ns see FN 60728-11:2005 | N |

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| TABLE: list of critical components | | | Р |
|---|---|---|---|
| Manufacturer/ trademark | Type/model | Technical data | Mark(s) of conformity |
| WENZHOU LUCHENG ZHENGTAI RESISTOR CO LTD | RWF-1 | 2.2ohm,1W | Evaluated in the report |
| Interchangeable | Interchangeab le | 400V, 4.7uF, 105°C | · - 4 |
| Interchangeable | Interchangeab le | 400V, 6.8uF, 105°C | GC. |
| Shenzhen Eagletron Electronic Co., Ltd. | WXD1604 | Class B | Test with equipment |
| CHANG CHUN CHEMICAL (ZHANGZHOU) CO LTD | T375J | Min. 0.45mm, V-0, 150°C | UL E304813 |
| JINGJIANG HENG HE RUBBER INDUSTRY CO LTD | PETH (b) | 130°C | UL E219145 |
| DIFA WIRE & CABLE CO LTD | MW 5-C | 155°C | UL E177138 |
| E&B Technology Co., Ltd. | E&B-XXXB | 130°C | VDE 40023473 |
| Shaanxi Huaxing Electronic Development Co. Ltd. | CT7 | Y1 type, 1000pF, 400V, 125°C | VDE 133203 |
| CHEMTROS CO LTD | 508 | V-0 | UL E108491 |
| Interchangeable | Interchangeab le | 6.3V, 330uF, 125°C | 于下·校子和 |
| Interchangeable | Interchangeab le | V-0, 130°C | UL ZPMV2 |
| KINGFA SCI & TECH CO., LTD | PP-DFR | Min. 1.5mm, V-0, 125°C | UL E171666 |
| KINGFA SCI & TECH CO., LTD | PP-DFR | Min. 1.5mm, V-0, 125°C | UL E171666 |
| | Manufacturer/ trademark WENZHOU LUCHENG ZHENGTAI RESISTOR CO LTD Interchangeable Interchangeable Shenzhen Eagletron Electronic Co., Ltd. CHANG CHUN CHEMICAL (ZHANGZHOU) CO LTD JINGJIANG HENG HE RUBBER INDUSTRY CO LTD DIFA WIRE & CABLE CO LTD E&B Technology Co., Ltd. Shaanxi Huaxing Electronic Development Co. Ltd. CHEMTROS CO LTD Interchangeable KINGFA SCI & TECH CO., LTD | Manufacturer/ trademark WENZHOU LUCHENG ZHENGTAI RESISTOR CO LTD Interchangeable Interchangeable Interchangeable Interchangeable Shenzhen Eagletron Electronic Co., Ltd. CHANG CHUN CHEMICAL (ZHANGZHOU) CO LTD JINGJIANG HENG HE RUBBER INDUSTRY CO LTD DIFA WIRE & CABLE CO LTD MW 5-C E&B Technology Co., Ltd. CHEMTROS CO LTD Interchangeable Interchangeable Interchangeable Interchangeable Interchangeable KINGFA SCI & TECH CO., LTD PWF-1 RWF-1 FACTOR OF TOTAL OF THE PETH (b) Tayson Tayson | Manufacturer/ trademark Type/model Technical data WENZHOU LUCHENG ZHENGTAI RESISTOR CO LTD RWF-1 2.2ohm,1W Interchangeable Interchangeab le 400V, 4.7uF, 105°C Interchangeable Interchangeab le 400V, 6.8uF, 105°C Shenzhen Eagletron Electronic Co., Ltd. WXD1604 Class B CHANG CHUN CHEMICAL (ZHANGZHOU) CO LTD T375J Min. 0.45mm, V-0, 150°C JINGJIANG HENG HE RUBBER INDUSTRY CO LTD PETH (b) 130°C DIFA WIRE & CABLE CO LTD MW 5-C 155°C E&B Technology Co., Ltd. E&B-XXXB 130°C Shaanxi Huaxing Electronic Development Co. Ltd. CT7 Y1 type, 1000pF, 400V, 125°C CHEMTROS CO LTD 508 V-0 Interchangeable Interchangeab le 6.3V, 330uF, 125°C Interchangeable Interchangeab le V-0, 130°C KINGFA SCI & TECH CO., LTD PP-DFR Min. 1.5mm, V-0, 125°C |

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Add: 2F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



0.089

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Maximum normal load.

| 1.6.2 | TABLE: e | lectrical data (i | n normal cor | nditions) | | | Р |
|-----------|----------|-------------------|--------------|-----------|------------|----------------------|--|
| U (V) | I (A) | I rated (A) | P (W) | Fuse # | I fuse (A) | Condition/status | |
| 90V/50Hz | 0.190 | GC. | 10.50 | FR1 | 0.190 | Maximum normal load. | 不是 |
| 90V/60Hz | 0.190 | - 6 | 10.48 | FR1 | 0.190 | Maximum normal load. | Septimon of Oliv |
| 100V/50Hz | 0.171 | 0.2 | 10.37 | FR1 | 0.171 | Maximum normal load. | |
| 100V/60Hz | 0.172 | 0.2 | 10.35 | FR1 | 0.172 | Maximum normal load. | in the same of the |
| 240V/50Hz | 0.095 | 0.2 | 10.21 | FR1 | 0.095 | Maximum normal load. | 二年 引 |
| 240V/60Hz | 0.095 | 0.2 | 10.21 | FR1 | 0.095 | Maximum normal load. | -C ************************************ |
| 264V/50Hz | 0.090 | - 10 | 10.27 | FR1 | 0.090 | Maximum normal load. | 9 |

Note(s): --

264V/60Hz

| 2.1.1.5c)1) | TABLE: | max. V, A, VA test | 60 C | | Р |
|-------------|-----------|---------------------|--------------------|--------------------|----------------|
| Voltage (ra | ited) (V) | Current (rated) (A) | Voltage (max.) (V) | Current (max.) (A) | VA (max.) (VA) |
| 5.0 | | 1.5 | 5.13 | 2.32 | 11.90 |
| Note(s): | litie | 环 橙 | · 环。 | -C1** | .00 |

FR1

0.089

10.27

| 2.1.1.5c)2) | TABLE: stored en | ergy | | -11 | 拉拉 神 | Tr. 19 | N |
|-------------|--------------------|--|--|--------------|------|--------|------------|
| | Capacitance C (µF) |) | | Voltage U (V | () | Ene | ergy E (J) |
| 45. 河 | 在 地 | The state of the s | The state of the s | 10° | 100 | | |
| Note(s): | Find Span | \C | ,0" | | | 1975 | J. 711 |

| 2.2 | TABLE: evaluation of voltage limiting components in SELV circuits | | | | |
|------------------------------|---|---|------------------|-------------------|--|
| Component (managed between) | | max. voltage (V | Voltage Limiting | | |
| Component (measured between) | | Vpeak | Vd.c. | Components | |
| 13 | T1 | 31.4 | II 10 5 | ad Global Manager | |
| Fault test pe | erformed on voltage limiting components | Voltage measured (V) in SELV circuits (V peak or V d. | | | |
| · 5 | CO" | - GO " | - | - M | |
| Note(s): | 200 | 311 | 11 TH | The street | |

| 2.5 | 2.5 TABLE: limited power source measurement | | | | |
|---|---|--------|-------|-------|-------|
| Measured Uoc (V) with all load circuits disconnected: | | Isc (/ | A) | VA | |
| | | Meas. | Limit | Meas. | Limit |
| Normal | | 2.32 | 8 | 11.90 | 100 |

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| D3, S-C | 0 | 8 | 0 | 100 |
|----------------------------|----|---|---|-----|
| Note(s): S-C=Short circuit | 10 | 3 | | |

| 2.10.2 | TABLE: Working vol | tage measurement | - 5 7 10 10 10 10 10 10 10 10 10 10 10 10 10 | Р |
|--------------------|--------------------|------------------|--|---|
| Location | | RMS voltage (V) | Peak voltage (V) | Comments |
| T1 | : pin 1 to pin 5 | 207 | 343 | |
| T1 | : pin 2 to pin 5 | 208 | 344 | III. |
| T1 | : pin 3 to pin 5 | 242 | 418 | C |
| T1 | : pin 4 to pin 5 | 208 | 342 | 70 |
| T1 | : pin 1 to pin 6 | 210 | 357 | IN 12 12 |
| C T1 | : pin 2 to pin 6 | 206 | 343 | objects The state of colons |
| T1 | : pin 3 to pin 6 | 249 | 425 | Max. V _{RMS} and V _{peak} |
| T1: pin 4 to pin 6 | | 206 | 342 | |
| CY1:Pr | imary to secondary | 207 | 344 | # # F |
| Note(s): | | 30 | · 天 起 | the Third Comment of the Comment of |

| 2.10.3 and 2.10.4 TABLE: clearance | and creepage | distance mea | asurements | O | | Р |
|--|--------------|-----------------|---------------------|------------|-------------------|-------------|
| Clearance cl and creepage distance dcr at/of: | U p (V) | U r.m.s. (V) | Required cl (mm) | cl (mm) | Required dcr (mm) | dcr (mm) |
| Primary traces of different polarity before fusible resister | <420 | <250 | 1.5 | 6.5 | 2.5 | 6.5 |
| Trace under fusible resister | <420 | <250 | 1.5 | 3.4 | 2.5 | 3.4 |
| Trace under T1 | 425 | 249 | 4.2 | 4.8 | 5.0 | 5.2 |
| Trace under CY1 | 344 | 207 | 4.0 | 6.5 | 5.0 | 6.5 |
| Note(s): | A 15 T | - Ci | A CONTRACTOR | 30 | 100 | |

| 2.10.5 TABLE: distance through insu | lation measuremer | nts | | P |
|---------------------------------------|-------------------|------------------|---------------------|------------|
| Distance through insulation di at/of: | U r.m.s. (V) | Test voltage (V) | Required di (mm) | di (mm) |
| Enclosure | 240 | 3000 | 0.4 | Min. 1.5 |
| Bobbin | 240 | 3000 | 0.4 | Min. 0.45 |
| 2 layers of insulating tape | 240 | 3000 | 3 layers | 3 layers |
| Note(s): | - Citizen | 7.0 | | |

| | 4.3.8 | TABLE: Batteries | -mil | 711 | The transfer of | 采 环 | N |
|--|-------|------------------|------|-----|-----------------|------------|---|
|--|-------|------------------|------|-----|-----------------|------------|---|

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| The tests of 4.3 not available | 3.8 are appli | cable only | when approp | riate batter | y data is | 5 | | | N |
|--------------------------------------|------------------|------------------|--------------------|------------------|--|------------------|------------------|------------------|--|
| Is it possible to | install the b | attery in a | reverse polai | rity position | ? | 拉测 | 根 | TIME | N |
| | Non-red | chargeable | batteries | | | Rechargeal | ole batteri | es | |
| | Disch | arging | Uninten- | Cha | rging | Discha | arging | Reverse | Charging |
| | Meas. current | Manuf. Specs. | tional charging | Meas. current | Manuf. Specs. | Meas. current | Manuf. Specs. | Meas. current | Manuf. Specs. |
| Max. current during normal condition | - | | T. E. Maria | 平水性 | | | c,Ö® | ST THE COUNTY | ,C** |
| Max. current during fault condition | | GC. | NGC. | } | | | <u> </u> | | Tr. to M. |
| Test results: | | 70 | Mir Ste | | I The Committee of the | 是 学 3 | School Co. | -C | Verdict |
| - Chemical leak | s s | SL constants | Fr. Contra | - Ci | Mark of the Control o | | 110 | 9 | |
| - Explosion of the | he battery | - G | | 0 | 110 | | | ATT. | - 56 |
| - Emission of fla | ame or expu | ulsion of mo | olten metal | -01 | | KE THE | 不 | 10 miles | The state of the s |
| - Electric streng | th tests of e | equipment a | after complet | ion of tests | 原 等 | o <u>s</u> don | 1 | × C | J |
| Note(s): | No. | 7 | _ (# 3 | | G | VOC | | | 1 |
| 77 3N 100 | | Teally and | - () | 76 | | | | | -771 |

| 4.3.8 | TABLE: Batteries | | | M N |
|-------------|--|-------------------------|--|--|
| Battery ca | ategory | Th. 182 | A Taranta | -1- |
| Manufact | urer | | 10 | |
| Type/mod | del | : | , | A 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| Voltage, | Capacity | | 3 700 | A STATE OF THE STA |
| Circuit pro | otection diagram | Marian - Marian de Como | 2.C | CO B |
| # Th | 20 | - 60 | 10 | |
| MARKING | GS AND INSTRUCTIONS (1.7.12, 1.7. | .15) | - III | The Committee of the Co |
| Location | of replaceable battery | K 700 | The transmit | |
| Language | e(s) | | 1 GC | |
| Close to t | the battery | | | |
| In the ser | vicing instructions | : | 潮 病节 | M. T. T. |
| In the ope | erating instructions | - I | THE STATE OF THE S | - C 3 |
| Note(s): | IN THE STATE OF TH | The delivery of the | -03 | 100 |

| 4.5 | TABLE: maximum temperatures | | P |
|-----|-----------------------------|---------------------------------------|---|
| | Test voltage (V): | a):100V×0.9/60Hz b):240V×1.1/50Hz; | |

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| | | 702-7 | | _ | (°C) | | |
|-----------------------------------|--|--------------------|---------------------|--------------------|------------------|----------------------------------|---------------------|
| maximum temperature T of part/at: | | T (°C) | | | allowed | | |
| · · | | | | a) | | b) | Tmax (°C) |
| C1 (C) | | | 7 | 5.9 | Alles Alles | 70.6 | 105 |
| C2 | 拉那 | 45. | 7 | 8.3 | 54 | 75.6 | 105 |
| T1 winding | A County County | F The com | 9 | 1.4 | C | 93.9 | 110 |
| T1 bobbin | a.G. | Attention | 8 | 8.1 | | 90.1 | 110 |
| CY1 | 10 | :111 | 7 | 7.6 | -30M | 78.2 | 125 |
| PCB near T1 | 弘 | 10 mario | 8 | 7.0 | - Continues | 87.7 | 130 |
| C8 | The state of the s | - 6 | 7 | 2.2 | 10 | 68.5 | 125 |
| Internal enclosure |) _ | 00 | - 7 | 5.9 | | 77.3 | 125 |
| External enclosure | | | 6 | 3.4 | 模型 | 65.8 | 95 |
| Ambient | | THE SALE | 4 | 0.0 | F Manual Control | 40.0 | 730 |
| Temperature T of winding | t₁(°C) | R ₁ (Ω) | t ₂ (°C) | R ₂ (Ω) | T (°C) | Allowed T _{max} (°C) | Insulation Class |
| -0 | G - | -10 | | | | 70 | - Tr |

| 4.7 | TABLI | E: Resistance to fire | 环 · · · · · · · · · · · · · · · · · · · | out Contain | A Salation of Colors | Р |
|--------------|-----------|--------------------------|---|-------------------|--|-----------|
| Par | t | Manufacturer of material | Type of material | Thickness (mm) | Flammability class | Evidence |
| Attraction | 20 | | | 3/1 | 3 | A Company |
| Note(s): ref | er to tab | le 1.5.1 | 1000 | 大 | The street of th | C 32 |

| 5.1 | TABLE: touch current measure | ement | | P |
|------------|------------------------------|--------------|-----------|---------------------|
| Measured b | etween: | Measured(mA) | Limit(mA) | Comments/conditions |
| | L/N and output | 0.02 | 0.25 | |
| liti: | L/N and enclosure | 0 | 0.25 | O - 10 |
| Note(s): | Lin and enclosure | GO C | 0.25 | |

| 5.2 | TABLE: electric strength tests and impulse tests | 4. 环 | CP |
|----------------|--|------------------|-----------|
| Test voltage a | pplied between: | Test voltage (V) | Breakdown |

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| | 40 | | 40 |
|-------|----|----------|----|
| Page | 4h | \cap t | ΔX |
| 1 ago | 70 | Oi | 70 |

| L/N and Adapter enclosure | 3000 | No breakdown |
|---------------------------|------|--------------|
| L/N and output | 3000 | No breakdown |
| T1 primary to secondary | 3000 | No breakdown |
| T1 core to secondary | 3000 | No breakdown |

| 5.3 | TABLE: fault condition tests | | | | | 11 天地 | P |
|----------------|---------------------------------|-------|---------------------|--------------|----------|--|---|
| -011 | ambient temperature (°C): | | | | | 24.0 | |
| 也 | rated markings of power supply: | | | | 700 70 | | |
| Component no. | | Fault | Test voltage (V) | Test time | Fuse no. | Result | |
| Output | | S-C | 264V | 10min | FR1 | Unit shutdown immediately, no hazards. | |
| Output | | O-L | 264V | 3.0h | FR1 | Until shutdown, Max. Temperature T1 coil= 97.4°C, no hazards. | |
| T1, output | | S-C | 264V | 10min | FR1 | Unit shutdown immediately, no hazards | |
| T1, output | | O-L | 264V | 3.5h | FR1 | Unit run into cycle protect, Max. Temperature T1 coil=105.2°C, no hazards. | |
| C8 | | S-C | 264V | 10min | FR1 | Unit shutdown immediately, no hazards. | |
| D3 | | S-C | 264V | 10min | FR1 | Unit shutdown immediately, no hazards | |
| U1, Pin1-5 | | S-C | 264V | 5min | FR1 | FR1 opened immediately, no hazards. | |
| U1, Pin1-8 | 3 | S-C | 264V | 10min | FR1 | Unit shutdown immediately, no hazards. | |
| C1 | g. | S-C | 264V | 5min | FR1 | FR1 opened immediately, no hazards. | |
| D2 | | S-C | 264V | 10min | FR1 | Unit shutdown immediately, no hazards | |
| DB1 Pin+, - | | S-C | 264V | 5min | FR1 | FR1 opened immediately, no hazards. | |

Fault: S-C = short circuit, O-C = open circuit, O-L= overload

Note: For the test with FR1 opened condition have been repeated ten times with same result.



Attachment A Photos of product



Fig.1 – Overview



Fig.2 - Overview

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Fig.3 - Top circuit

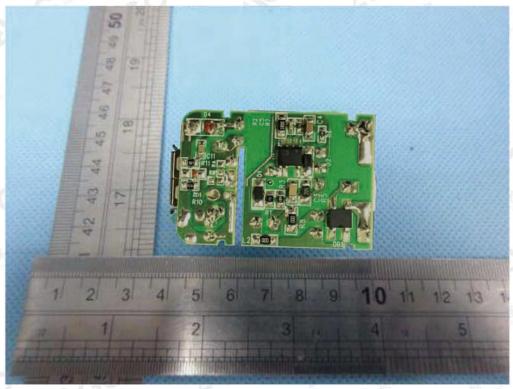


Fig.4 - Bottom circuit

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