# TEST REPORT
## J 62368-1
## Audio/video, information and communication technology equipment
## Part 1: Safety requirements

| | |
|---|---|
| **Report Number.....:** | ZKT-251224L31019S |
| **Date of issue.....:** | Dec. 17, 2025 |
| **Total number of pages.....:** | 59 pages |
| **Name of Testing Laboratory preparing the Report.....:** | **Shenzhen ZKT Technology Co., Ltd.**<br>1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China |
| **Applicant's name.....:** | SHENZHEN LINSN LED CO., LTD |
| **Address.....:** | Building 2, Hongfa High-tech Park, Shiyan Street, Baoan District, Shenzhen, China. |
| **Test specification:** | |
| **Standard.....:** | J62368-1(2023) |
| **Test procedure.....:** | Test report |
| **Non-standard test method.....:** | N/A |
| **ZKT TRF.....:** | TRF-EL-022_V0 |
| **TRF template used.....:** | IECEE OD-2020-F1:2023, Ed.1.6 |
| **Test Report Form No.....:** | IEC62368_1F |
| **Test Report Form(s) Originator.....:** | UL Solutions (US) |
| **Master TRF.....:** | Dated 2023-08-18 |

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| | |
|---|---|
| **Test item description.....:** | LED DISPIAY |
| **Trade Mark.....:** | / |
| **Manufacturer.....:** | SHENZHEN LINSN LED CO., LTD<br>Building 2, Hongfa High-tech Park, Shiyan Street, Baoan District, Shenzhen, China. |
| **Model/Type reference.....:** | MY1000-P3.91<br>MY1000-P1.5625, P1.953, P2.604, P2.976, P3.91, P4.81 |
| **Ratings.....:** | Input: 100-240V~, 50/60 Hz, 3A Max<br>Output: 100-240V~, 50/60 Hz, 3A Max |

**Testing procedure and testing location:**

| | |
|---|---|
| **Testing Laboratory.....:** | **Shenzhen ZKT Technology Co., Ltd.** |
| Address..... : | 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China |
| Date of Test..... : | Dec. 12, 2025 to Dec. 17, 2025 |
| **Tested by (name + signature)..... :** | Lynn Ling |
| **Reviewer (name + signature).....:** | Peter Huang |
| **Approved (name + signature)..... :** | Awen He |

**List of Attachments (including a total number of pages in each attachment):**
Attachment I: 4 pages (National deviation)
Attachment II: 6 pages (Photo)

**Summary of testing:**

| **Tests performed (name of test and test clause):** | **Testing location:** |
|---|---|
| The submitted samples were found to comply with the requirements of:<br>- J62368-1(2023) | Shenzhen ZKT Technology Co., Ltd.<br>1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China |

**Summary of compliance with National Differences (List of countries addressed):**
JAPAN group differences

☒ **The product fulfils the requirements of J62368-1(2023).**

**Statement concerning the uncertainty of the measurement systems used for the tests**
(may be required by the product standard or client)

☐ **Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:**
**Procedure number, issue date and title:**

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

☒ **Statement not required by the standard used for type testing**
(Note: When IEC or ISO standard requires a statement concerning the uncertainty of the measurement systems used for tests, this should be reported above. The informative text in parenthesis should be delete in both cases after selecting the applicable option)

**Copy of marking plate:**

**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.**

LED DISPIAY
Model: MY1000-P3.91
Input: 100-240V~, 50/60 Hz, 3A Max
Output: 100-240V~, 50/60 Hz, 3A Max

XXX株式会社

Manufacturer: SHENZHEN LINSN LED CO., LTD
Address: Building 2, Hongfa High-tech Park, Shiyan Street, Baoan District, Shenzhen, China.
Made in China

Remark on above marking:
1, The height of PSE symbols is more than 5 mm;
2, The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.

| Test item particulars: | |
|---|---|
| **Product group** ..... : | ☒ end product ☐ built-in component |
| **Classification of use by**..... : | ☒ Ordinary person ☐ Children likely present<br>☒ Instructed person<br>☒ Skilled person |
| **Supply connection**..... : | ☒ AC mains ☐ DC mains<br>☐ not mains connected:<br>☐ ES1 ☐ ES2 ☐ ES3 |
| **Supply tolerance** ..... : | ☒ +10%/-10%<br>☐ +20%/-15%<br>☐ +____%/ _____-%<br>☐ None |
| **Supply connection – type** ..... : | ☒ pluggable equipment type A -<br>☐ non-detachable supply cord<br>☒ appliance coupler<br>☐ direct plug-in<br>☐ pluggable equipment type B -<br>☐ non-detachable supply cord<br>☐ appliance coupler<br>☐ permanent connection<br>☒ mating connector<br>☐ other: |
| **Considered current rating of protective device**..... : | ☒ 16A;<br>Location: ☒ building ☐ equipment |
| **Equipment mobility**..... : | ☐ movable ☐ hand-held ☐ transportable<br>☐ direct plug-in ☒ stationary ☐ for building-in<br>☐ wall/ceiling-mounted ☐ SRME/rack-mounted<br>☐ other: |
| **Overvoltage category (OVC)** ..... : | ☐ OVC I ☒ OVC II ☐ OVC III<br>☐ OVC IV ☐ other:____. |
| **Class of equipment** ..... : | ☒ Class I ☐ Class II ☐ Class III<br>☐ Not classified ☐ |
| **Special installation location** ..... : | ☒ N/A ☐ restricted access area<br>☐ outdoor location☐ |
| **Pollution degree (PD)** ..... : | ☐ PD 1 ☒ PD 2 ☐ PD 3 |
| **Manufacturer's specified $T_{ma}$**..... : | 25°C ☐ Outdoor: minimum _____ °C |
| **IP protection class** ..... : | ☒ IPX0 ☐ IP___ |
| **Power systems** ..... : | ☒ TN ☐ TT ☐ IT - _____ $V_{L-L}$<br>☐ not AC mains |
| **Altitude during operation (m)** ..... : | ☒ 2000 m or less ☐ _____ m |
| **Altitude of test laboratory (m)** ..... : | ☒ 2000 m or less ☐ _____ m |
| **Mass of equipment (kg)** ..... : | 11.2kg |

| | |
|---|---|
| **Possible test case verdicts:** | |
| **- test case does not apply to the test object.... :** | N/A |
| **- test object does meet the requirement..... :** | P (Pass) |
| **- test object does not meet the requirement.... :** | F (Fail) |
| **Testing:** | |
| **Date of receipt of test item..... :** | Dec. 9, 2025 |
| **Date (s) of performance of tests.....:** | Dec. 12, 2025 to Dec. 17, 2025 |
| | |
| **General remarks:** | |
| "(See Enclosure #)" refers to additional information appended to the report.<br>"(See appended table)" refers to a table appended to the report.<br><br>**Throughout this report a ☐ comma / ☒ point is used as the decimal separator.** | |
| **Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:** | |
| The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided..... : | ☐ **Yes**<br>☒ **Not applicable** |
| **When differences exist; they shall be identified in the General product information section.** | |
| **Name and address of factory (ies):** | SHENZHEN LINSN LED CO., LTD<br>Building 2, Hongfa High-tech Park, Shiyan Street, Baoan District, Shenzhen, China. |
| **General product information and other remarks:**<br>1. The product is Class I LED DISPIAY intended to be indoor use.<br>2. MY1000-P3.91 is tested model, other models are derivative models .The models are identical in circuit, only different on the model names and LED beads spacing. So the test data of MY1000-P3.91 can represent the remaining models. | |

| OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS | | | | |
|---|---|---|---|---|
| **Clause** | **Possible Hazard** | | | |
| 5 | Electrically-caused injury | | | |
| Class and Energy Source (e.g. ES3: Primary circuit) | Body Part (e.g. Ordinary) | Safeguards | | |
| | | B | S | R |
| ES3: All circuits expect for output circuits | Ordinary, Instructed person, Skilled person | N/A | N/A | CE approved built-in switching power supply |
| ES1: accessible part | Ordinary, Instructed person, Skilled person | N/A | N/A | N/A |
| ES1: switch power supply output | Ordinary, Instructed person, Skilled person | N/A | N/A | N/A |
| 6 | Electrically-caused fire | | | |
| Class and Energy Source (e.g. PS2: 100 Watt circuit) | Material part (e.g. Printed board) | Safeguards | | |
| | | B | 1st S | 2nd S |
| PS3: input/ internal circuits | Enclosure, PCB, Other combustible components / materials, Internal wire | See 6.3.1 | See 6.4.5, 6.4.6, 6.5 | N/A |
| 7 | Injury caused by hazardous substances | | | |
| Class and Energy Source (e.g. Ozone) | Body Part (e.g., Skilled) | Safeguards | | |
| | | B | S | R |
| N/A | N/A | N/A | N/A | N/A |
| 8 | Mechanically-caused injury | | | |
| Class and Energy Source (e.g. MS3: Plastic fan blades) | Body Part (e.g. Ordinary) | Safeguards | | |
| | | B | S | R |
| MS2: Equipment Mass | Ordinary, Instructed person, Skilled person | See 8.6.3 | See 8.8 | N/A |
| MS1: Sharp edges and corner of product | Ordinary, Instructed person, Skilled person | N/A | N/A | N/A |
| 9 | Thermal burn | | | |
| Class and Energy Source (e.g. TS1: Keyboard caps) | Body Part (e.g., Ordinary) | Safeguards | | |
| | | B | S | R |
| TS1: All accessible parts | Ordinary, Instructed person, Skilled person | N/A | N/A | N/A |
| 10 | Radiation | | | |
| Class and Energy Source (e.g. RS1: PMP sound output) | Body Part (e.g., Ordinary) | Safeguards | | |
| | | B | S | R |
| N/A | N/A | N/A | N/A | N/A |
| Supplementary Information:<br>"B" – Basic Safeguard; "S" – Supplementary Safeguard; "R" – Reinforced Safeguard | | | | |

| ENERGY SOURCE DIAGRAM |
| --- |
| **Optional**. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems.<br>Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings |
| ☒ ES ☒ PS ☒ MS ☒ TS ☐ RS<br>(See OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS) |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| **4** | **GENERAL REQUIREMENTS** | | P |
| 4.1.1 | Acceptance of materials, components and subassemblies | (See appended Table 4.1.2.) | P |
| 4.1.2 | Use of components | Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G | P |
| 4.1.3 | Equipment design and construction | Evaluation of safeguards regarding access to ES3 and to limiting the outputs to fulfill ES1, and protection in regard to risk of spread of fire, mechanical-caused injury and thermal burn considered. | P |
| 4.1.4 | Specified ambient temperature for outdoor use (°C) ..... : | | N/A |
| 4.1.5 | Constructions and components not specifically covered | | N/A |
| 4.1.8 | Liquids and liquid filled components (LFC) | | N/A |
| 4.1.15 | Markings and instructions | (See Annex F) | P |
| 4.4.3 | Safeguard robustness | See below | P |
| 4.4.3.1 | General | | P |
| 4.4.3.2 | Steady force tests | (See Annex T.2 and T.5) | P |
| 4.4.3.3 | Drop tests | | N/A |
| 4.4.3.4 | Impact tests | (See Annex T.6) | P |
| 4.4.3.5 | Internal accessible safeguard tests | | N/A |
| 4.4.3.6 | Glass impact tests | No such glass is accessible to ordinary person or instructed person. | N/A |
| 4.4.3.7 | Glass fixation tests | | N/A |
| | Glass impact test (1J) | | N/A |
| | Push/pull test (10 N) | | N/A |
| 4.4.3.8 | Thermoplastic material tests | | N/A |
| 4.4.3.9 | Air comprising a safeguard | | N/A |
| 4.4.3.10 | Accessibility, glass, safeguard effectiveness | | N/A |
| 4.4.4 | Displacement of a safeguard by an insulating liquid | | N/A |
| 4.4.5 | Safety interlocks | | N/A |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| **4.5** | **Explosion** | | P |
| 4.5.1 | General | | P |
| 4.5.2 | No explosion during normal/abnormal operating condition | | P |
| | No harm by explosion during single fault conditions | | P |
| **4.6** | **Fixing of conductors** | | P |
| | Fix conductors not to defeat a safeguard | | P |
| | Compliance is checked by test.....: | 10 N pull / push test performed for all relevant conductors. | P |
| **4.7** | **Equipment for direct insertion into mains socket–outlets** | | N/A |
| 4.7.2 | Mains plug part complies with relevant standard... : | | N/A |
| 4.7.3 | Torque (Nm)..... : | | N/A |
| **4.8** | **Equipment containing coin/button cell batteries** | | N/A |
| 4.8.1 | General | No coin/button batteries used. | N/A |
| 4.8.2 | Instructional safeguard..... : | | N/A |
| 4.8.3 | Battery compartment door/cover construction | | N/A |
| | Open torque test | | N/A |
| 4.8.4.2 | Stress relief test | | N/A |
| 4.8.4.3 | Battery replacement test | | N/A |
| 4.8.4.4 | Drop test | | N/A |
| 4.8.4.5 | Impact test | | N/A |
| 4.8.4.6 | Crush test | | N/A |
| 4.8.5 | Compliance | | N/A |
| | 30N force test with test probe | | N/A |
| | 20N force test with test hook | | N/A |
| **4.9** | **Likelihood of fire or shock due to entry of conductive object** | | N/A |
| **4.10** | **Component requirements** | | P |
| 4.10.1 | Disconnect Device | Appliance coupler | P |
| 4.10.2 | Switches and relays | No such switches and relay used. | N/A |
| 4.10.3 | Mains power supply cords | (See Clause G.7) | N/A |
| 4.10.4 | Batteries and their protection circuits | (See Annex M) | N/A |

| | | | |
|---|---|---|---|
| **5** | **ELECTRICALLY-CAUSED INJURY** | | P |
| **5.2** | **Classification and limits of electrical energy sources** | | P |
| 5.2.2 | ES1, ES2 and ES3 limits | | P |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 5.2.2.2 | Steady-state voltage and current limits..... : | (See appended table 5.2) | P |
| 5.2.2.3 | Capacitance limits..... : | | P |
| 5.2.2.4 | Single pulse limits..... : | | N/A |
| 5.2.2.5 | Limits for repetitive pulses..... : | | N/A |
| 5.2.2.6 | Ringing signals | | N/A |
| 5.2.2.7 | Audio signals | | N/A |
| **5.3** | **Protection against electrical energy sources** | | P |
| 5.3.1 | General Requirements for accessible parts to ordinary, instructed and skilled persons | See below. | P |
| 5.3.1 a) | Accessible ES1/ES2 derived from ES2/ES3 circuits | | P |
| 5.3.1 b) | Skilled persons not unintentional contact ES3 bare conductors | | P |
| 5.3.2.1 | Accessibility to electrical energy sources and safeguards | | P |
| | Accessibility to outdoor equipment bare parts | | N/A |
| 5.3.2.2 | Contact requirements | | N/A |
| | Test with test probe from Annex V | | — |
| 5.3.2.2 a) | Air gap – electric strength test potential (V)..... : | | N/A |
| 5.3.2.2 b) | Air gap – distance (mm) ..... : | | N/A |
| 5.3.2.3 | Compliance | | P |
| 5.3.2.4 | Terminals for connecting stripped wire | | N/A |
| **5.4** | **Insulation materials and requirements** | | P |
| 5.4.1.2 | Properties of insulating material | | P |
| 5.4.1.3 | Material is non-hygroscopic | (See clause 5.4.8) | P |
| 5.4.1.4 | Maximum operating temperature for insulating materials..... : | (See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6) | P |
| 5.4.1.5 | Pollution degrees..... : | PD2 | P |
| 5.4.1.5.2 | Test for pollution degree 1 environment and for an insulating compound | | N/A |
| 5.4.1.5.3 | Thermal cycling test | | N/A |
| 5.4.1.6 | Insulation in transformers with varying dimensions | | N/A |
| 5.4.1.7 | Insulation in circuits generating starting pulses | | N/A |
| 5.4.1.8 | Determination of working voltage..... : | The power supply is certified by CE | N/A |
| 5.4.1.9 | Insulating surfaces | | N/A |
| 5.4.1.10 | Thermoplastic parts on which conductive metallic parts are directly mounted | | N/A |
| 5.4.1.10.2 | Vicat test..... : | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 5.4.1.10.3 | Ball pressure test.....: | | N/A |
| 5.4.2 | Clearances | Procedure 2 is higher. Hence the determination of clearance is by procedure 2.<br>(See appended table 5.4.2.2, 5.4.2.4 and 5.4.3) | P |
| 5.4.2.1 | General requirements | | N/A |
| | Clearances in circuits connected to AC Mains, Alternative method | | N/A |
| 5.4.2.2 | Procedure 1 for determining clearance | (See appended table 5.4.2, 5.4.3) | P |
| | Temporary overvoltage .....: | 2000Vpeak. | — |
| 5.4.2.3 | Procedure 2 for determining clearance | (See appended table 5.4.2, 5.4.3) | P |
| 5.4.2.3.2.2 | a.c. mains transient voltage.....: | 2500Vpeak. | — |
| 5.4.2.3.2.3 | d.c. mains transient voltage .....: | -- | — |
| 5.4.2.3.2.4 | External circuit transient voltage.....: | -- | — |
| 5.4.2.3.2.5 | Transient voltage determined by measurement.....: | -- | — |
| 5.4.2.4 | Determining the adequacy of a clearance using an electric strength test .....: | | N/A |
| 5.4.2.5 | Multiplication factors for clearances and test voltages .....: | | N/A |
| 5.4.2.6 | Clearance measurement.....: | | P |
| 5.4.3 | Creepage distances | (See appended table 5.4.2, 5.4.3) | P |
| 5.4.3.1 | General | See below. | P |
| 5.4.3.3 | Material group.....: | IIIa or IIIb | — |
| 5.4.3.4 | Creepage distances measurement.....: | | P |
| 5.4.4 | Solid insulation | | P |
| 5.4.4.1 | General requirements | | N/A |
| 5.4.4.2 | Minimum distance through insulation .....: | | N/A |
| 5.4.4.3 | Insulating compound forming solid insulation | Certified source of photo couplers used. (See append table 4.1.2) | N/A |
| 5.4.4.4 | Solid insulation in semiconductor devices | (See clause 5.4.4.3) | N/A |
| 5.4.4.5 | Insulating compound forming cemented joints | | N/A |
| 5.4.4.6 | Thin sheet material | | N/A |
| 5.4.4.6.1 | General requirements | | N/A |
| 5.4.4.6.2 | Separable thin sheet material | | N/A |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Number of layers (pcs) ..... : | | N/A |
| 5.4.4.6.3 | Non-separable thin sheet material | | N/A |
| | Number of layers (pcs) ..... : | | N/A |
| 5.4.4.6.4 | Standard test procedure for non-separable thin sheet material..... : | | N/A |
| 5.4.4.6.5 | Mandrel test | | N/A |
| 5.4.4.7 | Solid insulation in wound components | (See Annex G5 and G6) | N/A |
| 5.4.4.9 | Solid insulation at frequencies >30 kHz, $E_P$, $K_R$, $d$, $V_{PW}$ (V)..... : | | N/A |
| | Alternative by electric strength test, tested voltage (V), $K_R$..... : | | N/A |
| 5.4.5 | Antenna terminal insulation | | N/A |
| 5.4.5.1 | General | | N/A |
| 5.4.5.2 | Voltage surge test | | N/A |
| 5.4.5.3 | Insulation resistance (MΩ)..... : | | N/A |
| | Electric strength test..... : | | N/A |
| 5.4.6 | Insulation of internal wire as part of supplementary safeguard | | N/A |
| 5.4.7 | Tests for semiconductor components and for cemented joints | | N/A |
| 5.4.8 | Humidity conditioning | | P |
| | Relative humidity (%), temperature (°C), duration (h)..... : | 95%, 25°C, 48h | — |
| 5.4.9 | Electric strength test | (See appended table 5.4.9) | P |
| 5.4.9.1 | Test procedure for type test of solid insulation..... : | Method 1 used. | P |
| 5.4.9.2 | Test procedure for routine test | | N/A |
| 5.4.10 | Safeguards against transient voltages from external circuits | | N/A |
| 5.4.10.1 | Parts and circuits separated from external circuits | | N/A |
| 5.4.10.2 | Test methods | | N/A |
| 5.4.10.2.1 | General | | N/A |
| 5.4.10.2.2 | Impulse test..... : | | N/A |
| 5.4.10.2.3 | Steady-state test..... : | | N/A |
| 5.4.10.3 | Verification for insulation breakdown for impulse test..... : | | N/A |
| 5.4.11 | Separation between external circuits and earth | | N/A |
| 5.4.11.1 | Exceptions to separation between external circuits and earth | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 5.4.11.2 | Requirements | | N/A |
| | SPDs bridge separation between external circuit and earth | | N/A |
| | Rated operating voltage $U_{op}$ (V).....: | | — |
| | Nominal voltage $U_{peak}$ (V).....: | | — |
| | Max increase due to variation $U_{sp}$ ..... : | | — |
| | Max increase due to ageing $U_{sa}$ ..... : | | — |
| 5.4.11.3 | Test method and compliance.....: | | N/A |
| 5.4.12 | Insulating liquid | | N/A |
| 5.4.12.1 | General requirements | | N/A |
| 5.4.12.2 | Electric strength of an insulating liquid.....: | | N/A |
| 5.4.12.3 | Compatibility of an insulating liquid.....: | | N/A |
| 5.4.12.4 | Container for insulating liquid..... : | | N/A |
| **5.5** | **Components as safeguards** | | N/A |
| 5.5.1 | General | The power supply is certified by CE | N/A |
| 5.5.2 | Capacitors and RC units | | N/A |
| 5.5.2.1 | General requirement | | N/A |
| 5.5.2.2 | Safeguards against capacitor discharge after disconnection of a connector.....: | | N/A |
| 5.5.3 | Transformers | Authenticated | N/A |
| 5.5.4 | Optocouplers | Authenticated | N/A |
| 5.5.5 | Relays | No such relay used as safeguard | N/A |
| 5.5.6 | Resistors | No such resistor used | N/A |
| 5.5.7 | SPDs | No such varistor used | N/A |
| 5.5.8 | Insulation between the mains and an external circuit consisting of a coaxial cable.....: | | N/A |
| 5.5.9 | Safeguards for socket-outlets in outdoor equipment | | -- |
| | RCD rated residual operating current (mA).....: | | — |
| **5.6** | **Protective conductor** | | P |
| 5.6.2 | Requirement for protective conductors | | P |
| **5.6** | **Protective conductor** | Class I equipment | P |
| 5.6.2 | Requirement for protective conductors | | P |
| 5.6.2.1 | General requirements | | P |
| 5.6.2.2 | Colour of insulation | Yellow and green | P |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 5.6.3 | Requirement for protective earthing conductors | | P |
| | Protective earthing conductor size ($mm^2$) ..... : | | — |
| | Protective earthing conductor serving as a reinforced safeguard | | N/A |
| | Protective earthing conductor serving as a double safeguard | | P |
| 5.6.4 | Requirements for protective bonding conductors | | P |
| 5.6.4.1 | Protective bonding conductors | | P |
| | Protective bonding conductor size ($mm^2$)..... : | | — |
| 5.6.4.2 | Protective current rating (A)..... : | 16 | P |
| 5.6.5 | Terminals for protective conductors | | P |
| 5.6.5.1 | Terminal size for connecting protective earthing conductors (mm)..... : | | P |
| | Terminal size for connecting protective bonding conductors (mm)..... : | | P |
| 5.6.5.2 | Corrosion | | N/A |
| 5.6.6 | Resistance of the protective bonding system | | P |
| 5.6.6.1 | Requirements | | P |
| 5.6.6.2 | Test Method..... : | | P |
| 5.6.6.3 | Resistance (Ω) or voltage drop..... : | 0.018Ω | P |
| 5.6.7 | Reliable connection of a protective earthing conductor | | P |
| 5.6.8 | Functional earthing | | N/A |
| | Conductor size ($mm^2$)..... : | | N/A |
| | Class II with functional earthing marking ..... : | | N/A |
| | Appliance inlet cl & cr (mm)..... : | | N/A |
| **5.7** | **Prospective touch voltage, touch current and protective conductor current** | | P |
| 5.7.2 | Measuring devices and networks | | P |
| 5.7.2.1 | Measurement of touch current | (See appended table 5.7.4) | P |
| 5.7.2.2 | Measurement of voltage | (See appended table 5.7.4) | P |
| 5.7.3 | Equipment set-up, supply connections and earth connections | | P |
| 5.7.4 | Unearthed accessible parts..... : | Touch current at unearthed accessible conductive parts is not exceeding ES1 limits. (See appended table 5.7.4) | P |
| 5.7.5 | Earthed accessible conductive parts..... : | | P |
| 5.7.6 | Requirements when touch current exceeds ES2 limits | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Protective conductor current (mA)..... : | | N/A |
| | Instructional Safeguard..... : | | N/A |
| 5.7.7 | Prospective touch voltage and touch current associated with external circuits | | N/A |
| 5.7.7.1 | Touch current from coaxial cables | | N/A |
| 5.7.7.2 | Prospective touch voltage and touch current associated with paired conductor cables | | N/A |
| 5.7.8 | Summation of touch currents from external circuits | | N/A |
| | a) Equipment connected to earthed external circuits, current (mA)..... : | | N/A |
| | b) Equipment connected to unearthed external circuits, current (mA)..... : | | N/A |
| **5.8** | **Backfeed safeguard in battery backed up supplies** | | N/A |
| | Mains terminal ES..... : | (See appended table 5.8) | N/A |
| | Air gap (mm)..... : | | N/A |
| **6** | **ELECTRICALLY- CAUSED FIRE** | | P |
| **6.2** | **Classification of PS and PIS** | | P |
| 6.2.2 | Power source circuit classifications..... : | (See OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS) | P |
| 6.2.3 | Classification of potential ignition sources | See below. | P |
| 6.2.3.1 | Arcing PIS ..... : | Primary circuits are considered as arcing PIS. | P |
| 6.2.3.2 | Resistive PIS ..... : | All components located within the EUT are considered as resistive PIS. | P |
| **6.3** | **Safeguards against fire under normal operating and abnormal operating conditions** | | P |
| 6.3.1 | No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials..... : | (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) | P |
| | Combustible materials outside fire enclosure..... : | | P |
| **6.4** | **Safeguards against fire under single fault conditions** | | P |
| 6.4.1 | Safeguard method | Method by control of fire spread applied, fire enclosure provided. | P |
| 6.4.2 | Reduction of the likelihood of ignition under single fault conditions in PS1 circuits | | N/A |
| 6.4.3 | Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 6.4.3.1 | Supplementary safeguards | | N/A |
| 6.4.3.2 | Single Fault Conditions.....: | (See appended table B.4) | N/A |
| | Special conditions for temperature limited by fuse | | N/A |
| 6.4.4 | Control of fire spread in PS1 circuits | | N/A |
| 6.4.5 | Control of fire spread in PS2 circuits | | P |
| 6.4.5.2 | Supplementary safeguards | PCB uses V-0 fire rating material<br>The power supply is certified by CE | P |
| 6.4.6 | Control of fire spread in PS3 circuits | Compliance detailed as follows:<br>− Parts as in 6.4.5 above<br>− Fire enclosure: rated V-0 used. | P |
| 6.4.7 | Separation of combustible materials from a PIS | | N/A |
| 6.4.7.2 | Separation by distance | | N/A |
| 6.4.7.3 | Separation by a fire barrier | | N/A |
| 6.4.8 | Fire enclosures and fire barriers | Used metal material enclosure. | P |
| 6.4.8.2 | Fire enclosure and fire barrier material properties | | P |
| 6.4.8.2.1 | Requirements for a fire barrier | | N/A |
| 6.4.8.2.2 | Requirements for a fire enclosure | | P |
| 6.4.8.3 | Constructional requirements for a fire enclosure and a fire barrier | See below | P |
| 6.4.8.3.1 | Fire enclosure and fire barrier openings | | P |
| 6.4.8.3.2 | Fire barrier dimensions | | N/A |
| 6.4.8.3.3 | Top openings and properties | No openings | N/A |
| | Openings dimensions (mm).....: | | N/A |
| 6.4.8.3.4 | Bottom openings and properties | No openings | N/A |
| | Openings dimensions (mm).....: | | N/A |
| | Flammability tests for the bottom of a fire enclosure | | N/A |
| | Instructional Safeguard.....: | | N/A |
| 6.4.8.3.5 | Side openings and properties | | P |
| | Openings dimensions (mm).....: | | P |
| 6.4.8.3.6 | Integrity of a fire enclosure, condition met: a), b) or c).....: | | N/A |
| 6.4.8.4 | Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating.....: | Fire enclosure is made of V-0 material. | P |
| 6.4.9 | Flammability of insulating liquid.....: | | N/A |
| **6.5** | **Internal and external wiring** | | P |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 6.5.1 | General requirements | approved | P |
| 6.5.2 | Requirements for interconnection to building wiring .....: | | N/A |
| 6.5.3 | Internal wiring size ($mm^2$) for socket-outlets..... : | | N/A |
| **6.6** | **Safeguards against fire due to the connection to additional equipment** | | P |

| | | | |
|---|---|---|---|
| **7** | **INJURY CAUSED BY HAZARDOUS SUBSTANCES** | | N/A |
| **7.2** | **Reduction of exposure to hazardous substances** | | N/A |
| **7.3** | **Ozone exposure** | | N/A |
| **7.4** | **Use of personal safeguards or personal protective equipment (PPE)** | | N/A |
| | Personal safeguards and instructions..... : | | — |
| **7.5** | **Use of instructional safeguards and instructions** | | N/A |
| | Instructional safeguard (ISO 7010).....: | | — |

| | | | |
|---|---|---|---|
| **8** | **MECHANICALLY-CAUSED INJURY** | | P |
| **8.2** | **Mechanical energy source classifications** | | P |
| **8.3** | **Safeguards against mechanical energy sources** | | P |
| **8.4** | **Safeguards against parts with sharp edges and corners** | | P |
| 8.4.1 | Safeguards | | N/A |
| | Instructional Safeguard.....: | | N/A |
| 8.4.2 | Sharp edges or corners | Accessible edges and corners of the equipment are rounded and are classified as MS1. | P |
| **8.5** | **Safeguards against moving parts** | | N/A |
| 8.5.1 | Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts | No moving parts | N/A |
| | MS2 or MS3 part required to be accessible for the function of the equipment | | N/A |
| | Moving MS3 parts only accessible to skilled person | | N/A |
| 8.5.2 | Instructional safeguard..... : | | N/A |
| 8.5.4 | Special categories of equipment containing moving parts | | N/A |
| 8.5.4.1 | General | | N/A |
| 8.5.4.2 | Equipment containing work cells with MS3 parts | | N/A |
| 8.5.4.2.1 | Protection of persons in the work cell | | N/A |
| 8.5.4.2.2 | Access protection override | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 8.5.4.2.2.1 | Override system | | N/A |
| 8.5.4.2.2.2 | Visual indicator | | N/A |
| 8.5.4.2.3 | Emergency stop system | | N/A |
| | Maximum stopping distance from the point of activation (m)..... : | | N/A |
| | Space between end point and nearest fixed mechanical part (mm)..... : | | N/A |
| 8.5.4.2.4 | Endurance requirements | | N/A |
| | Mechanical system subjected to 100 000 cycles of operation | | N/A |
| | - Mechanical function check and visual inspection | | N/A |
| | - Cable assembly.....: | | N/A |
| 8.5.4.3 | Equipment having electromechanical device for destruction of media | | N/A |
| 8.5.4.3.1 | Equipment safeguards | | N/A |
| 8.5.4.3.2 | Instructional safeguards against moving parts..... : | | N/A |
| 8.5.4.3.3 | Disconnection from the supply | | N/A |
| 8.5.4.3.4 | Cut type and test force (N)..... : | | N/A |
| 8.5.4.3.5 | Compliance | | N/A |
| 8.5.5 | High pressure lamps | | N/A |
| | Explosion test.....: | | N/A |
| 8.5.5.3 | Glass particles dimensions (mm)..... : | | N/A |
| **8.6** | **Stability of equipment** | | - |
| 8.6.1 | General | | N/A |
| | Instructional safeguard..... : | | N/A |
| 8.6.2 | Static stability | | N/A |
| 8.6.2.2 | Static stability test.....: | | N/A |
| 8.6.2.3 | Downward force test | | N/A |
| 8.6.3 | Relocation stability | | P |
| | Wheels diameter (mm)..... : | | — |
| | Tilt test | | P |
| 8.6.4 | Glass slide test | | N/A |
| 8.6.5 | Horizontal force test..... : | | N/A |
| **8.7** | **Equipment mounted to wall, ceiling or other structure** | | N/A |
| 8.7.1 | Mount means type.....: | | N/A |
| 8.7.2 | Test methods | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Test 1, additional downwards force (N)..... : | | N/A |
| | Test 2, number of attachment points and test force (N)..... : | | N/A |
| | Test 3 Nominal diameter (mm) and applied torque (Nm)..... : | | N/A |
| **8.8** | **Handles strength** | | P |
| 8.8.1 | General | | P |
| 8.8.2 | Handle strength test | | P |
| | Number of handles..... : | 2 | — |
| | Force applied (N)..... : | 330 | P |
| **8.9** | **Wheels or casters attachment requirements** | | N/A |
| 8.9.2 | Pull test | | N/A |
| **8.10** | **Carts, stands and similar carriers** | | N/A |
| 8.10.1 | General | | N/A |
| 8.10.2 | Marking and instructions..... : | | N/A |
| 8.10.3 | Cart, stand or carrier loading test | | N/A |
| | Loading force applied (N)..... : | | N/A |
| 8.10.4 | Cart, stand or carrier impact test | | N/A |
| 8.10.5 | Mechanical stability | | N/A |
| | Force applied (N)..... : | | N/A |
| 8.10.6 | Thermoplastic temperature stability | | N/A |
| **8.11** | **Mounting means for slide-rail mounted equipment (SRME)** | | N/A |
| 8.11.1 | General | | N/A |
| 8.11.2 | Requirements for slide rails | | N/A |
| | Instructional Safeguard..... : | | N/A |
| 8.11.3 | Mechanical strength test | | N/A |
| 8.11.3.1 | Downward force test, force (N) applied..... : | | N/A |
| 8.11.3.2 | Lateral push force test | | N/A |
| 8.11.3.3 | Integrity of slide rail end stops | | N/A |
| 8.11.4 | Compliance | | N/A |
| **8.12** | **Telescoping or rod antennas** | | N/A |
| | Button/ball diameter (mm)..... : | | — |

| | | |
|---|---|---|
| **9** | **THERMAL BURN INJURY** | P |
| **9.2** | **Thermal energy source classifications** | P |
| **9.3** | **Touch temperature limits** | P |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 9.3.1 | Touch temperatures of accessible parts..... : | (See appended table 9.3) | P |
| 9.3.2 | Test method and compliance | | P |
| **9.4** | **Safeguards against thermal energy sources** | | N/A |
| **9.5** | **Requirements for safeguards** | | N/A |
| 9.5.1 | Equipment safeguard | | N/A |
| 9.5.2 | Instructional safeguard..... : | | N/A |
| **9.6** | **Requirements for wireless power transmitters** | | N/A |
| 9.6.1 | General | | N/A |
| 9.6.2 | Specification of the foreign objects | | N/A |
| 9.6.3 | Test method and compliance.....: | (See appended table 9.6) | N/A |

| | | | |
|---|---|---|---|
| **10** | **RADIATION** | | N/A |
| **10.2** | **Radiation energy source classification** | | N/A |
| 10.2.1 | General classification | | N/A |
| | Lasers.....: | | — |
| | Lamps and lamp systems.....: | | — |
| | Image projectors..... : | | — |
| | X-Ray.....: | | — |
| | Personal music player.....: | | — |
| **10.3** | **Safeguards against laser radiation** | | N/A |
| | The standard(s) equipment containing laser(s) comply.....: | | N/A |
| **10.4** | **Safeguards against optical radiation from lamps and lamp systems (including LED types)** | | N/A |
| 10.4.1 | General requirements | | N/A |
| | Instructional safeguard provided for accessible radiation level needs to exceed | | N/A |
| | Risk group marking and location..... : | | N/A |
| | Information for safe operation and installation | | N/A |
| 10.4.2 | Requirements for enclosures | | N/A |
| | UV radiation exposure..... : | | N/A |
| 10.4.3 | Instructional safeguard..... : | | N/A |
| **10.5** | **Safeguards against X-radiation** | | N/A |
| 10.5.1 | Requirements | | N/A |
| | Instructional safeguard for skilled persons..... : | | — |
| 10.5.3 | Maximum radiation (pA/kg)..... : | | — |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| **10.6** | **Safeguards against acoustic energy sources** | | N/A |
| 10.6.1 | General | | N/A |
| 10.6.2 | Classification | | N/A |
| | Acoustic output $L_{Aeq,T}$, dB(A)..... : | | N/A |
| | Unweighted RMS output voltage (mV)..... : | | N/A |
| | Digital output signal (dBFS)..... : | | N/A |
| 10.6.3 | Requirements for dose-based systems | | N/A |
| 10.6.3.1 | General requirements | | N/A |
| 10.6.3.2 | Dose-based warning and automatic decrease | | N/A |
| 10.6.3.3 | Exposure-based warning and requirements | | N/A |
| | 30 s integrated exposure level (MEL30)..... : | | N/A |
| | Warning for MEL ≥ 100 dB(A)..... : | | N/A |
| 10.6.4 | Measurement methods | | N/A |
| 10.6.5 | Protection of persons | | N/A |
| | Instructional safeguards..... : | | N/A |
| 10.6.6 | Requirements for listening devices (headphones, earphones, etc.) | | N/A |
| 10.6.6.1 | Corded listening devices with analogue input | | N/A |
| | Listening device input voltage (mV)..... : | | N/A |
| 10.6.6.2 | Corded listening devices with digital input | | N/A |
| | Max. acoustic output $L_{Aeq,T}$, dB(A)..... : | | N/A |
| 10.6.6.3 | Cordless listening devices | | N/A |
| | Max. acoustic output $L_{Aeq,T}$, dB(A)..... : | | N/A |
| | | | N/A |

| | | | |
|---|---|---|---|
| **B** | **NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS** | | P |
| **B.1** | **General** | | P |
| B.1.5 | Temperature measurement conditions | (See appended table B.1.5) | P |
| **B.2** | **Normal operating conditions** | | P |
| B.2.1 | General requirements..... : | (See Test Item Particulars and appended test tables) | P |
| | Audio Amplifiers and equipment with audio amplifiers..... : | | N/A |
| B.2.3 | Supply voltage and tolerances | +10% and -10% for a.c. mains. | P |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| B.2.5 | Input test..... : | (See appended table B.2.5) | P |
| **B.3** | **Simulated abnormal operating conditions** | | P |
| B.3.1 | General | (See appended tables B.3, B.4) | P |
| B.3.2 | Covering of ventilation openings | | N/A |
| | Instructional safeguard..... : | | N/A |
| B.3.3 | DC mains polarity test | | N/A |
| B.3.4 | Setting of voltage selector | No voltage selector | N/A |
| B.3.5 | Maximum load at output terminals | (See appended tables B.3, B.4) | N/A |
| B.3.6 | Reverse battery polarity | | N/A |
| B.3.7 | Audio amplifier abnormal operating conditions | | N/A |
| B.3.8 | Safeguards functional during and after abnormal operating conditions..... : | (See appended tables B.3, B.4) | P |
| **B.4** | **Simulated single fault conditions** | | P |
| B.4.1 | General | | P |
| B.4.2 | Temperature controlling device | No such devices. | N/A |
| B.4.3 | Blocked motor test | No motor used. | N/A |
| B.4.4 | Functional insulation | (See appended tables B.3, B.4) | P |
| B.4.4.1 | Short circuit of clearances for functional insulation | | P |
| B.4.4.2 | Short circuit of creepage distances for functional insulation | | P |
| B.4.4.3 | Short circuit of functional insulation on coated printed boards | | N/A |
| B.4.5 | Short-circuit and interruption of electrodes in tubes and semiconductors | | P |
| B.4.6 | Short circuit or disconnection of passive components | | P |
| B.4.7 | Continuous operation of components | | N/A |
| B.4.8 | Compliance during and after single fault conditions .....: | (See appended tables B.3, B.4) | P |
| B.4.9 | Battery charging and discharging under single fault conditions | | N/A |
| **C** | **UV RADIATION** | | N/A |
| **C.1** | **Protection of materials in equipment from UV radiation** | | N/A |
| C.1.2 | Requirements | | N/A |
| C.1.3 | Test method | | N/A |
| **C.2** | **UV light conditioning test** | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| C.2.1 | Test apparatus..... : | | N/A |
| C.2.2 | Mounting of test samples | | N/A |
| C.2.3 | Carbon-arc light-exposure test | | N/A |
| C.2.4 | Xenon-arc light-exposure test | | N/A |
| **D** | **TEST GENERATORS** | | N/A |
| **D.1** | **Impulse test generators** | | N/A |
| **D.2** | **Antenna interface test generator** | | N/A |
| **D.3** | **Electronic pulse generator** | | N/A |
| **E** | **TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS** | | N/A |
| **E.1** | **Electrical energy source classification for audio signals** | | N/A |
| | Maximum non-clipped output power (W)..... : | | — |
| | Rated load impedance (Ω) ..... : | | — |
| | Open-circuit output voltage (V)..... : | | — |
| | Instructional safeguard..... : | See Clause F.5 | — |
| **E.2** | **Audio signals used during test** | | N/A |
| E.2.1 | Pink noise test signal | | N/A |
| E.2.2 | Sine-wave signal | | N/A |
| **E.3** | **Operating conditions of equipment containing an audio amplifier** | | N/A |
| E.3.1 | Normal operating conditions | | N/A |
| E.3.2 | Abnormal operating conditions | | N/A |
| E.3.3 | Audio equipment temperature measurement conditions..... : | | N/A |
| **F** | **EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS** | | P |
| **F.1** | **General** | | P |
| | Language ..... : | English.<br>Versions in other languages will be provided when national certificate approval. | — |
| **F.2** | **Letter symbols and graphical symbols** | | P |
| F.2.1 | Letter symbols according to IEC60027-1 | | P |
| F.2.2 | Graphic symbols according to IEC, ISO or manufacturer specific | | P |
| **F.3** | **Equipment markings** | | P |
| F.3.1 | Equipment marking locations | The equipment marking is located on the surface and is easily visible. | P |
| F.3.2 | Equipment identification markings | See below. | P |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| F.3.2.1 | Manufacturer identification .....: | See copy of marking plate | P |
| F.3.2.2 | Model identification .....: | See copy of marking plate | P |
| F.3.3 | Equipment rating markings | See below. | P |
| F.3.3.1 | Equipment with direct connection to mains | See copy of marking plate | P |
| F.3.3.2 | Equipment without direct connection to mains | | N/A |
| F.3.3.3 | Nature of the supply voltage.....: | See copy of marking plate | P |
| F.3.3.4 | Rated voltage.....: | See copy of marking plate | P |
| F.3.3.5 | Rated frequency.....: | See copy of marking plate | P |
| F.3.3.6 | Rated current or rated power.....: | See copy of marking plate | P |
| F.3.3.7 | Equipment with multiple supply connections | Only one connection. | N/A |
| F.3.4 | Voltage setting device | No voltage setting device. | N/A |
| F.3.5 | Terminals and operating devices | See below. | P |
| F.3.5.1 | Mains appliance outlet and socket-outlet markings .....: | | N/A |
| F.3.5.2 | Switch position identification marking.....: | | N/A |
| F.3.5.3 | Replacement fuse identification and rating markings .....: | | N/A |
| | Instructional safeguards for neutral fuse.....: | | N/A |
| F.3.5.4 | Replacement battery identification marking.....: | | N/A |
| F.3.5.5 | Neutral conductor terminal | Not permanently connected equipment | N/A |
| F.3.5.6 | Terminal marking location | | P |
| F.3.6 | Equipment markings related to equipment classification | | P |
| F.3.6.1 | Class I equipment | | P |
| F.3.6.1.1 | Protective earthing conductor terminal.....: | | P |
| F.3.6.1.2 | Protective bonding conductor terminals .....: | | P |
| F.3.6.2 | Equipment class marking.....: | See copy of marking plate. | N/A |
| F.3.6.3 | Functional earthing terminal marking.....: | | N/A |
| F.3.7 | Equipment IP rating marking.....: | IPX0 | N/A |
| F.3.8 | External power supply output marking.....: | See copy of marking plate | N/A |
| F.3.9 | Durability, legibility and permanence of marking | All markings required are easily discernible under normal lighting conditions. | P |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| F.3.10 | Test for permanence of markings | After rubbing test by water and petroleum spirit, the marking still legible; it is not easily possible to remove the marking plate and show no curling. | P |
| **F.4** | **Instructions** | | P |
| | - Information prior to installation and initial use | | N/A |
| | - Equipment for use in locations where children not likely to be present | | N/A |
| | - Instructions for installation and interconnection | | N/A |
| | - Equipment intended for use only in restricted access area | | N/A |
| | - Equipment intended to be fastened in place | | N/A |
| | - Instructions for audio equipment terminals | | N/A |
| | - Protective earthing used as a safeguard | | N/A |
| | - Protective conductor current exceeding ES2 limits | | N/A |
| | - Graphic symbols used on equipment | | P |
| | - Permanently connected equipment not provided with all-pole mains switch | | N/A |
| | - Replaceable components or modules providing safeguard function | | N/A |
| | - Equipment containing insulating liquid | | N/A |
| | - Installation instructions for outdoor equipment | | N/A |
| **F.5** | Instructional safeguards | | P |
| **G** | **COMPONENTS** | | - |
| **G.1** | **Switches** | | N/A |
| G.1.1 | General | | N/A |
| G.1.2 | Ratings, endurance, spacing, maximum load | | N/A |
| G.1.3 | Test method and compliance | | N/A |
| **G.2** | **Relays** | | N/A |
| G.2.1 | Requirements | | N/A |
| G.2.2 | Overload test | | N/A |
| G.2.3 | Relay controlling connectors supplying power to other equipment | | N/A |
| G.2.4 | Test method and compliance | | N/A |
| **G.3** | **Protective devices** | | N/A |
| G.3.1 | Thermal cut-offs | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b) | | N/A |
| | Thermal cut-outs tested as part of the equipment as indicated in c) | | N/A |
| G.3.1.2 | Test method and compliance | | N/A |
| G.3.2 | Thermal links | | N/A |
| G.3.2.1 | a) Thermal links tested separately according to IEC 60691 with specifics | | N/A |
| | b) Thermal links tested as part of the equipment | | N/A |
| G.3.2.2 | Test method and compliance | | N/A |
| G.3.3 | PTC thermistors | | N/A |
| G.3.4 | Overcurrent protection devices | Certified source used. (See appended table 4.1.2) | N/A |
| G.3.5 | Safeguards components not mentioned in G.3.1 to G.3.4 | | N/A |
| G.3.5.1 | Non-resettable devices suitably rated and marking provided | | N/A |
| G.3.5.2 | Single faults conditions.....: | | N/A |
| **G.4** | **Connectors** | | N/A |
| G.4.1 | Spacings | | N/A |
| G.4.2 | Mains connector configuration.....: | | N/A |
| G.4.3 | Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely | | -- |
| **G.5** | **Wound components** | | N/A |
| G.5.1 | Wire insulation in wound components | The transformer and its components have been certified CE along with the built-in power supply. | N/A |
| G.5.1.2 | Protection against mechanical stress | | N/A |
| G.5.2 | Endurance test | | N/A |
| G.5.2.1 | General test requirements | | N/A |
| G.5.2.2 | Heat run test | | N/A |
| | Test time (days per cycle).....: | | — |
| | Test temperature (°C).....: | | — |
| G.5.2.3 | Wound components supplied from the mains | | N/A |
| G.5.2.4 | No insulation breakdown | | N/A |
| G.5.3 | Transformers | | N/A |
| G.5.3.1 | Compliance method.....: | | N/A |
| | Position.....: | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Method of protection..... : | | N/A |
| G.5.3.2 | Insulation | | N/A |
| | Protection from displacement of windings..... : | | — |
| G.5.3.3 | Transformer overload tests | | N/A |
| G.5.3.3.1 | Test conditions | | N/A |
| G.5.3.3.2 | Winding temperatures | | N/A |
| G.5.3.3.3 | Winding temperatures - alternative test method | | N/A |
| G.5.3.4 | Transformers using FIW | | N/A |
| G.5.3.4.1 | General | | N/A |
| | FIW wire nominal diameter..... : | | — |
| G.5.3.4.2 | Transformers with basic insulation only | | N/A |
| G.5.3.4.3 | Transformers with double insulation or reinforced insulation..... : | | N/A |
| G.5.3.4.4 | Transformers with FIW wound on metal or ferrite core | | N/A |
| G.5.3.4.5 | Thermal cycling test and compliance | | N/A |
| G.5.3.4.6 | Partial discharge test | | N/A |
| G.5.3.4.7 | Routine test | | N/A |
| G.5.4 | Motors | | N/A |
| G.5.4.1 | General requirements | | N/A |
| G.5.4.2 | Motor overload test conditions | | N/A |
| G.5.4.3 | Running overload test | | N/A |
| G.5.4.4.2 | Locked-rotor overload test | | N/A |
| | Test duration (days) ..... : | | — |
| G.5.4.5 | Running overload test for DC motors | | N/A |
| G.5.4.5.2 | Tested in the unit | | N/A |
| G.5.4.5.3 | Alternative method | | N/A |
| G.5.4.6 | Locked-rotor overload test for DC motors | | N/A |
| G.5.4.6.2 | Tested in the unit | | N/A |
| | Maximum Temperature ..... : | | N/A |
| G.5.4.6.3 | Alternative method | | N/A |
| G.5.4.7 | Motors with capacitors | | N/A |
| G.5.4.8 | Three-phase motors | | N/A |
| G.5.4.9 | Series motors | | N/A |
| | Operating voltage ..... : | | — |
| **G.6** | **Wire Insulation** | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| G.6.1 | General | | N/A |
| G.6.2 | Enamelled winding wire insulation | | N/A |
| **G.7** | **Mains supply cords** | | N/A |
| G.7.1 | General requirements | | N/A |
| | Type..... : | | — |
| G.7.2 | Cross sectional area ($mm^2$ or AWG)..... : | | N/A |
| G.7.3 | Cord anchorages and strain relief for non-detachable power supply cords | | N/A |
| G.7.3.2 | Cord strain relief | | N/A |
| G.7.3.2.1 | Requirements | | N/A |
| | Strain relief test force (N)..... : | | N/A |
| G.7.3.2.2 | Strain relief mechanism failure | | N/A |
| G.7.3.2.3 | Cord sheath or jacket position, distance (mm)..... : | | N/A |
| G.7.3.2.4 | Strain relief and cord anchorage material | | N/A |
| G.7.4 | Cord Entry | | N/A |
| G.7.5 | Non-detachable cord bend protection | | N/A |
| G.7.5.1 | Requirements | | N/A |
| G.7.5.2 | Test method and compliance | | N/A |
| | Overall diameter or minor overall dimension, *D* (mm)..... : | | — |
| | Radius of curvature after test (mm)..... : | | — |
| G.7.6 | Supply wiring space | | N/A |
| G.7.6.1 | General requirements | | N/A |
| G.7.6.2 | Stranded wire | | N/A |
| G.7.6.2.1 | Requirements | | N/A |
| G.7.6.2.2 | Test with 8 mm strand | | N/A |
| **G.8** | **Varistors** | | N/A |
| G.8.1 | General requirements | | N/A |
| G.8.2 | Safeguards against fire | | N/A |
| G.8.2.1 | General | | N/A |
| G.8.2.2 | Varistor overload test | | N/A |
| G.8.2.3 | Temporary overvoltage test | | N/A |
| **G.9** | **Integrated circuit (IC) current limiters** | | N/A |
| G.9.1 | Requirements | | N/A |
| | IC limiter output current (max. 5A)..... : | | — |
| | Manufacturers' defined drift ..... : | | — |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| G.9.2 | Test Program | | N/A |
| G.9.3 | Compliance | | N/A |
| **G.10** | **Resistors** | | N/A |
| G.10.1 | General | | N/A |
| G.10.2 | Conditioning | | N/A |
| G.10.3 | Resistor test | | N/A |
| G.10.4 | Voltage surge test | | N/A |
| G.10.5 | Impulse test | | N/A |
| G.10.6 | Overload test | | N/A |
| **G.11** | **Capacitors and RC units** | | N/A |
| G.11.1 | General requirements | | N/A |
| G.11.2 | Conditioning of capacitors and RC units | | N/A |
| G.11.3 | Rules for selecting capacitors | | N/A |
| **G.12** | **Optocouplers** | | N/A |
| | Optocouplers comply with IEC 60747-5-5 with specifics | | N/A |
| | Type test voltage $V_{ini, a}$ ..... : | | — |
| | Routine test voltage, $V_{ini, b}$ ..... : | | — |
| **G.13** | **Printed boards** | | P |
| G.13.1 | General requirements | | P |
| G.13.2 | Uncoated printed boards | | N/A |
| G.13.3 | Coated printed boards | | P |
| G.13.4 | Insulation between conductors on the same inner surface | | N/A |
| G.13.5 | Insulation between conductors on different surfaces | | N/A |
| | Distance through insulation..... : | | N/A |
| | Number of insulation layers (pcs) ..... : | | — |
| G.13.6 | Tests on coated printed boards | | N/A |
| G.13.6.1 | Sample preparation and preliminary inspection | | N/A |
| G.13.6.2 | Test method and compliance | | N/A |
| **G.14** | **Coating on components terminals** | | N/A |
| G.14.1 | Requirements ..... : | (See Clause G.13) | N/A |
| **G.15** | **Pressurized liquid filled components** | | N/A |
| G.15.1 | Requirements | | N/A |
| G.15.2 | Test methods and compliance | | N/A |
| G.15.2.1 | Hydrostatic pressure test | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| G.15.2.2 | Creep resistance test | | N/A |
| G.15.2.3 | Tubing and fittings compatibility test | | N/A |
| G.15.2.4 | Vibration test | | N/A |
| G.15.2.5 | Thermal cycling test | | N/A |
| G.15.2.6 | Force test | | N/A |
| G.15.3 | Compliance | | N/A |
| **G.16** | **IC including capacitor discharge function (ICX)** | | N/A |
| G.16.1 | Condition for fault tested is not required | | N/A |
| | ICX with associated circuitry tested in equipment | | N/A |
| | ICX tested separately | | N/A |
| G.16.2 | Tests | | N/A |
| | Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test..... : | | — |
| | Mains voltage that impulses to be superimposed on .....: | | — |
| | Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test.....: | | — |
| G.16.3 | Capacitor discharge test.....: | | N/A |
| **H** | **CRITERIA FOR TELEPHONE RINGING SIGNALS** | | N/A |
| **H.1** | **General** | | N/A |
| **H.2** | **Method A** | | N/A |
| **H.3** | **Method B** | | N/A |
| H.3.1 | Ringing signal | | N/A |
| H.3.1.1 | Frequency (Hz) ..... : | | — |
| H.3.1.2 | Voltage (V) .....: | | — |
| H.3.1.3 | Cadence; time (s) and voltage (V) .....: | | — |
| H.3.1.4 | Single fault current (mA):.....: | | — |
| H.3.2 | Tripping device and monitoring voltage | | N/A |
| H.3.2.1 | Conditions for use of a tripping device or a monitoring voltage | | N/A |
| H.3.2.2 | Tripping device | | N/A |
| H.3.2.3 | Monitoring voltage (V).....: | | N/A |
| **J** | **INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION** | | N/A |
| **J.1** | **General** | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Winding wire insulation.....: | Approved triple insulated wire used.<br>(See appended table 4.1.2) | — |
| | Solid round winding wire, diameter (mm)..... : | | N/A |
| | Solid square and rectangular (flatwise bending) winding wire, cross-sectional area ($mm^2$)..... : | | N/A |
| **J.2/J.3** | Tests and Manufacturing | (See separate test report) | N/A |
| **K** | **SAFETY INTERLOCKS** | | N/A |
| **K.1** | **General requirements** | | N/A |
| | Instructional safeguard..... : | | N/A |
| **K.2** | **Components of safety interlock safeguard mechanism** | | N/A |
| **K.3** | **Inadvertent change of operating mode** | | N/A |
| **K.4** | **Interlock safeguard override** | | N/A |
| **K.5** | **Fail-safe** | | N/A |
| K.5.1 | Under single fault condition | | N/A |
| **K.6** | **Mechanically operated safety interlocks** | | N/A |
| K.6.1 | Endurance requirement | | N/A |
| K.6.2 | Test method and compliance.....: | | N/A |
| **K.7** | **Interlock circuit isolation** | | N/A |
| K.7.1 | Separation distance for contact gaps & interlock circuit elements | | N/A |
| | In circuit connected to mains, separation distance for contact gaps (mm).....: | | N/A |
| | In circuit isolated from mains, separation distance for contact gaps (mm).....: | | N/A |
| | Electric strength test before and after the test of K.7.2.....: | (See appended table 5.4.9) | N/A |
| K.7.2 | Overload test, Current (A)..... : | | N/A |
| K.7.3 | Endurance test | | N/A |
| K.7.4 | Electric strength test | | N/A |
| **L** | **DISCONNECT DEVICES** | | P |
| **L.1** | **General requirements** | Appliance coupler | N/A |
| **L.2** | **Permanently connected equipment** | | P |
| **L.3** | **Parts that remain energized** | | N/A |
| **L.4** | **Single-phase equipment** | The disconnect device disconnect both poles simultaneously. | P |
| **L.5** | **Three-phase equipment** | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| **L.6** | **Switches as disconnect devices** | | N/A |
| **L.7** | **Plugs as disconnect devices** | | P |
| **L.8** | **Multiple power sources** | | N/A |
| | Instructional safeguard..... : | | N/A |
| **M** | **EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS** | | N/A |
| **M.1** | **General requirements** | | N/A |
| **M.2** | **Safety of batteries and their cells** | | N/A |
| M.2.1 | Batteries and their cells comply with relevant IEC standards..... : | | N/A |
| **M.3** | **Protection circuits for batteries provided within the equipment** | | N/A |
| M.3.1 | Requirements | | N/A |
| M.3.2 | Test method | | N/A |
| | Overcharging of a rechargeable battery | | N/A |
| | Excessive discharging | | N/A |
| | Unintentional charging of a non-rechargeable battery | | N/A |
| | Reverse charging of a rechargeable battery | | N/A |
| M.3.3 | Compliance | | N/A |
| **M.4** | **Additional safeguards for equipment containing a portable secondary lithium battery** | | N/A |
| M.4.1 | General | | N/A |
| M.4.2 | Charging safeguards | | N/A |
| M.4.2.1 | Requirements | | N/A |
| M.4.2.2 | Compliance.....: | | N/A |
| M.4.3 | Fire enclosure.....: | | N/A |
| M.4.4 | Drop test of equipment containing a secondary lithium battery | | N/A |
| M.4.4.2 | Preparation and procedure for the drop test | | N/A |
| M.4.4.3 | Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%): .....: | | N/A |
| M.4.4.4 | Check of the charge/discharge function | | N/A |
| M.4.4.5 | Charge / discharge cycle test | | N/A |
| M.4.4.6 | Compliance | | N/A |
| **M.5** | **Risk of burn due to short-circuit during carrying** | | N/A |
| M.5.1 | Requirement | | N/A |
| M.5.2 | Test method and compliance | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| **M.6** | **Safeguards against short-circuits** | | N/A |
| M.6.1 | External and internal faults | | N/A |
| M.6.2 | Compliance | | N/A |
| **M.7** | **Risk of explosion from lead acid and NiCd batteries** | N/A | N/A |
| M.7.1 | Ventilation preventing explosive gas concentration | | N/A |
| | Calculated hydrogen generation rate..... : | | N/A |
| M.7.2 | Test method and compliance | | N/A |
| | Minimum air flow rate, $Q$ ($m^3/h$)..... : | | N/A |
| M.7.3 | Ventilation tests | | N/A |
| M.7.3.1 | General | | N/A |
| M.7.3.2 | Ventilation test – alternative 1 | | N/A |
| | Hydrogen gas concentration (%)..... : | | N/A |
| M.7.3.3 | Ventilation test – alternative 2 | | N/A |
| | Obtained hydrogen generation rate..... : | | N/A |
| M.7.3.4 | Ventilation test – alternative 3 | | N/A |
| | Hydrogen gas concentration (%)..... : | | N/A |
| M.7.4 | Marking..... : | | N/A |
| **M.8** | **Protection against internal ignition from external spark sources of batteries with aqueous electrolyte** | | N/A |
| M.8.1 | General | | N/A |
| M.8.2 | Test method | | N/A |
| M.8.2.1 | General | | N/A |
| M.8.2.2 | Estimation of hypothetical volume $V_Z$ ($m^3/s$)..... : | | — |
| M.8.2.3 | Correction factors..... : | | — |
| M.8.2.4 | Calculation of distance $d$ (mm) ..... : | | — |
| **M.9** | **Preventing electrolyte spillage** | | N/A |
| M.9.1 | Protection from electrolyte spillage | | N/A |
| M.9.2 | Tray for preventing electrolyte spillage | | N/A |
| **M.10** | Instructions to prevent reasonably foreseeable misuse | | N/A |
| | Instructional safeguard..... : | | N/A |
| **N** | **ELECTROCHEMICAL POTENTIALS** | | N/A |
| | Material(s) used..... : | | — |
| **O** | **MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES** | | P |
| | Value of $X$ (mm)..... : | Complied. | — |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| **P** | **SAFEGUARDS AGAINST CONDUCTIVE OBJECTS** | | P |
| **P.1** | **General** | | P |
| **P.2** | **Safeguards against entry or consequences of entry of a foreign object** | | P |
| P.2.1 | General | | P |
| P.2.2 | Safeguards against entry of a foreign object | | P |
| | Location and Dimensions (mm) ..... : | | P |
| P.2.3 | Safeguards against the consequences of entry of a foreign object | | N/A |
| P.2.3.1 | Safeguard requirements | | N/A |
| | The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment | | N/A |
| | Transportable equipment with metalized plastic parts..... : | | N/A |
| P.2.3.2 | Consequence of entry test..... : | | N/A |
| **P.3** | **Safeguards against spillage of internal liquids** | | N/A |
| P.3.1 | General | | N/A |
| P.3.2 | Determination of spillage consequences | | N/A |
| P.3.3 | Spillage safeguards | | N/A |
| P.3.4 | Compliance | | N/A |
| **P.4** | **Metallized coatings and adhesives securing parts** | | N/A |
| P.4.1 | General | | N/A |
| P.4.2 | Tests | | N/A |
| | Conditioning, $T_C$ (°C)..... : | | — |
| | Duration (weeks)..... : | | — |
| **Q** | **CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING** | | N/A |
| **Q.1** | **Limited power sources** | | N/A |
| Q.1.1 | Requirements | | N/A |
| | a) Inherently limited output | | N/A |
| | b) Impedance limited output | | N/A |
| | c) Regulating network limited output | | N/A |
| | d) Overcurrent protective device limited output | | N/A |
| | e) IC current limiter complying with G.9 | | N/A |
| Q.1.2 | Test method and compliance..... : | | N/A |
| | Current rating of overcurrent protective device (A) ..... : | | N/A |
| **Q.2** | **Test for external circuits – paired conductor cable** | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Maximum output current (A) ..... : | | N/A |
| | Current limiting method..... : | | — |
| **R** | **LIMITED SHORT CIRCUIT TEST** | | N/A |
| **R.1** | **General** | | N/A |
| **R.2** | **Test setup** | | N/A |
| | Overcurrent protective device for test..... : | | — |
| **R.3** | **Test method** | | N/A |
| | Cord/cable used for test..... : | | — |
| **R.4** | **Compliance** | | N/A |
| **S** | **TESTS FOR RESISTANCE TO HEAT AND FIRE** | | N/A |
| **S.1** | **Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W** | | N/A |
| | Samples, material..... : | | — |
| | Wall thickness (mm)..... : | | — |
| | Conditioning (°C)..... : | | — |
| | Test flame according to IEC 60695-11-5 with conditions as set out | | N/A |
| | - Material not consumed completely | | N/A |
| | - Material extinguishes within 30s | | N/A |
| | - No burning of layer or wrapping tissue | | N/A |
| **S.2** | **Flammability test for fire enclosure and fire barrier integrity** | | N/A |
| | Samples, material..... : | | — |
| | Wall thickness (mm)..... : | | — |
| | Conditioning (°C)..... : | | — |
| **S.3** | **Flammability test for the bottom of a fire enclosure** | | N/A |
| S.3.1 | Mounting of samples | | N/A |
| S.3.2 | Test method and compliance | | N/A |
| | Mounting of samples ..... : | | — |
| | Wall thickness (mm)..... : | | — |
| **S.4** | **Flammability classification of materials** | | N/A |
| **S.5** | **Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power exceeding 4 000 W** | | N/A |
| | Samples, material..... : | | — |
| | Wall thickness (mm)..... : | | — |
| | Conditioning (°C)..... : | | — |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| **T** | **MECHANICAL STRENGTH TESTS** | | P |
| **T.1** | **General** | | P |
| **T.2** | **Steady force test, 10 N .....:** | (See appended table T.2) | P |
| **T.3** | **Steady force test, 30 N .....:** | | N/A |
| **T.4** | **Steady force test, 100 N .....:** | | N/A |
| **T.5** | **Steady force test, 250 N .....:** | (See appended table T.5) | P |
| **T.6** | **Enclosure impact test** | (See appended table T.6) | P |
| | Fall test | | P |
| | Swing test | | P |
| **T.7** | **Drop test ..... :** | | N/A |
| **T.8** | **Stress relief test.....:** | | N/A |
| **T.9** | **Glass Impact Test..... :** | | N/A |
| **T.10** | **Glass fragmentation test** | | N/A |
| | Number of particles counted.....: | No such glass provided. | N/A |
| **T.11** | **Test for telescoping or rod antennas** | | N/A |
| | Torque value (Nm) .....: | No such antennas provided. | N/A |
| **U** | **MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION** | | N/A |
| **U.1** | **General** | | N/A |
| | Instructional safeguard **:** | | N/A |
| **U.2** | **Test method and compliance for non-intrinsically protected CRTs** | | N/A |
| **U.3** | **Protective screen** | | N/A |
| **V** | **DETERMINATION OF ACCESSIBLE PARTS** | | P |
| **V.1** | **Accessible parts of equipment** | | P |
| V.1.1 | General | Following the probes test specified in this annex Figure V.1, V.2, V.5 are suitable. | P |
| V.1.2 | Surfaces and openings tested with jointed test probes | | P |
| V.1.3 | Openings tested with straight unjointed test probes | No openings | N/A |
| V.1.4 | Plugs, jacks, connectors tested with blunt probe | | P |
| V.1.5 | Slot openings tested with wedge probe | | N/A |
| V.1.6 | Terminals tested with rigid test wire | | P |
| **V.2** | **Accessible part criterion** | | N/A |

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|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| **X** | **ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)** | | N/A |
| | Clearance..... : | (See appended table X) | N/A |
| **Y** | **CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES** | | N/A |
| **Y.1** | **General** | | N/A |
| **Y.2** | **Resistance to UV radiation** | | N/A |
| **Y.3** | **Resistance to corrosion** | | N/A |
| **Y.3** | **Resistance to corrosion** | | N/A |
| Y.3.1 | Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by..... : | | N/A |
| Y.3.2 | Test apparatus | | N/A |
| Y.3.3 | Water – saturated sulphur dioxide atmosphere | | N/A |
| Y.3.4 | Test procedure..... : | | N/A |
| Y.3.5 | Compliance | | N/A |
| **Y.4** | **Gaskets** | | N/A |
| Y.4.1 | General | | N/A |
| Y.4.2 | Gasket tests | | N/A |
| Y.4.3 | Tensile strength and elongation tests | | N/A |
| | Alternative test methods..... : | | N/A |
| Y.4.4 | Compression test | | N/A |
| Y.4.5 | Oil resistance | | N/A |
| Y.4.6 | Securing means | (See Annex P.4) | N/A |
| **Y.5** | **Protection of equipment within an outdoor enclosure** | | N/A |
| Y.5.1 | General | | N/A |
| Y.5.2 | Protection from moisture | | N/A |
| | Relevant tests of IEC 60529 or Y.5.3..... : | | N/A |
| Y.5.3 | Water spray test | | N/A |
| Y.5.4 | Protection from plants and vermin | | N/A |
| Y.5.5 | Protection from excessive dust | | N/A |
| Y.5.5.1 | General | | N/A |
| Y.5.5.2 | IP5X equipment | | N/A |
| Y.5.5.3 | IP6X equipment | | N/A |
| **Y.6** | **Mechanical strength of enclosures** | | N/A |
| Y.6.1 | General | | N/A |
| Y.6.2 | Impact test..... : | (See Table T.6) | N/A |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |

| 5.2 | TABLE: Classification of electrical energy sources | | | | | | P |
|---|---|---|---|---|---|---|---|
| Supply Voltage | Location (e.g. circuit designation) | Test conditions | Parameters | | | | ES Class |
| | | | U (V) | I (mA) | Type [1] | Additional Info [2] | |
| 264Vac, 60Hz | Primary circuits supplied by a.c. mains supply | Normal: | 264Vrms | - | - | - | ES3 (declared) |
| | | Abnormal: | - | - | - | - | |
| | | Single fault: | - | - | - | - | |
| 264Vac, 60Hz | LED screen to Earth | Normal | - | 0.095mApk | SS | - | ES1 |
| | | Abnormal: Overload | - | 0.095mApk | SS | - | |
| | | Single fault – R1, SC | - | 0.095mApk | SS | - | |
| 264Vac, 60Hz | JH1 port to Earth | Normal | - | 0.271mApk | SS | - | ES1 |
| | | Abnormal: Overload | - | 0.271mApk | SS | - | |
| | | Single fault – R1, SC | - | 0.271mApk | SS | - | |
| Supplementary information:<br>1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.<br>2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc. | | | | | | | |

| 5.4.1.8 | TABLE: Working voltage measurement | | | | N/A |
|---|---|---|---|---|---|
| Location | RMS voltage (V) | Peak voltage (V) | Frequency (Hz) | Comments | |
| - | - | - | - | - | |
| Supplementary information: | | | | | |
| - | | | | | |

| 5.4.1.10.2 | TABLE: Vicat softening temperature of thermoplastics | | N/A |
|---|---|---|---|
| Method..... : | | | — |
| Object/ Part No./Material | Manufacturer/trademark | Thickness (mm) | T softening (°C) |
| - | - | - | - |
| Supplementary information: - | | | |

| 5.4.1.10.3 | TABLE: Ball pressure test of thermoplastics | N/A |
|---|---|---|
| Allowed impression diameter (mm)..... : | ≤ 2 mm | — |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |

| Object/Part No./Material | Manufacturer/trademark | Thickness (mm) | Test temperature (°C) | Impression diameter (mm) |
|---|---|---|---|---|
| | | | | |
| Supplementary information: - | | | | |

| 5.4.2, 5.4.3 | TABLE: Minimum Clearances/Creepage distance | | | | | | | P |
|---|---|---|---|---|---|---|---|---|
| Clearance (cl) and creepage distance (cr) at/of/between: | $U_p$ (V) | $U_{rms}$ (V) | Freq [1] (Hz) | Required cl (mm) | cl (mm) | E.S. [2] (V) | Required cr (mm) | cr (mm) |
| Primary circuit to Grounded part (RI) | 420 | 250 | 60 | 1.5 | 7.5 | - | 2.5 | 7.5 |
| Primary circuit to LED screen (RI) | 420 | 250 | 60 | 3.0 | >7.2 | - | 5.0 | >7.2 |
| Supplementary information:<br>1) Only for frequency above 30 kHz.<br>2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied).<br>3) For clearance and creepage did not describe above are far larger than limit above.<br>The secondary of T1 used triple insulated wire, core as primary of T1.<br>4) When the equipment is intended to operate in an area which has an elevation of maximum 16,405 feet (5,000 meters). Clearance distances were calculated according to the Table 17 of IEC 62368-1:2018 standard, Factor 1.48. | | | | | | | | |

| 5.4.4.2 | TABLE: Minimum distance through insulation | | | N/A |
|---|---|---|---|---|
| Distance through insulation (DTI) at/of | Peak voltage (V) | Insulation | Required DTI (mm) | Measured DTI (mm) |
| - | - | - | - | - |
| Supplementary information:<br>1) See appended table 4.1.2 for details. | | | | |

| 5.4.4.9 | TABLE: Solid insulation at frequencies >30 kHz | | | | | N/A |
|---|---|---|---|---|---|---|
| Insulation material | $E_P$ | Frequency (kHz) | $K_R$ | Thickness $d$ (mm) | Insulation | $V_{PW}$ (Vpk) |
| - | - | - | - | - | - | - |
| Supplementary information: - | | | | | | |

| 5.4.9 | TABLE: Electric strength tests | | | P |
|---|---|---|---|---|
| Test voltage applied between: | Voltage shape (Surge, Impulse, AC, DC, etc.) | Test voltage (V) | Breakdown Yes / No | |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |

| | | | |
|---|---|---|---|
| Basic/supplementary | | | |
| L/N to metal enclosure | DC | 2500V | No |
| Reinforced: | | | |
| L/N to LED screen | DC | 4000V | No |
| L/N to JH1 port | DC | 4000V | No |
| Supplementary information: - | | | |

| **5.5.2.2** | **TABLE: Stored discharge on capacitors** | | | | N/A |
|---|---|---|---|---|---|
| Location | Supply voltage (V) | Operating and fault condition [1)] | Switch position | Measured voltage (Vpk) | ES Class |
| - | - | - | - | - | - |
| - | - | - | - | - | - |

Supplementary information:
X-capacitors installed for testing:

☐ bleeding resistor rating:
☐ ICX:
1) Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit

| **5.6.6** | **TABLE: Resistance of protective conductors and terminations** | | | P |
|---|---|---|---|---|
| Location | Test current (A) | Duration (min) | Voltage drop (V) | Resistance (Ω) |
| Metal enclosure | 32 | 2 | 0.576 | 0.018 |
| Supplementary information: - | | | | |

| **5.7.4** | **TABLE: Unearthed accessible parts** | | | | | N/A |
|---|---|---|---|---|---|---|
| Location | Operating and fault conditions | Supply Voltage (V) | Parameters | | | ES class |
| | | | Voltage ($V_{rms}$ or $V_{pk}$) | Current ($A_{rms}$ or $A_{pk}$) | Freq. (Hz) | |
| LED screen to Earth | Normal | 264 | - | 0.095mApk | 60 | ES1 |
| | Abnormal – see table B.3, B.4 for detail | 264 | - | 0.095mApk | 60 | ES1 |
| | Single fault – see table B.3, B.4 for detail | 264 | - | 0.095mApk | 60 | ES1 |
| JH1 port to Earth | Normal | 264 | - | 0.271mApk | 60 | ES1 |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Abnormal – see table B.3, B.4 for detail | 264 | - | 0.271mApk | 60 | ES1 |
| | Single fault – see table B.3, B.4 for detail | 264 | - | 0.271mApk | 60 | ES1 |
| Supplementary information:<br>Abbreviation: SC= short circuit; OC= open circuit | | | | | | |

| 5.7.5 | TABLE: Earthed accessible conductive part | | | P |
|---|---|---|---|---|
| Supply voltage (V).....: | 264V | | | — |
| Phase(s) ..... : | [ X] Single Phase; [ ] Three Phase: [ ] Delta [ ] Wye | | | — |
| Power Distribution System ..... : | ☒ TN ☐ TT ☐ IT | | | — |
| Location | Fault Condition No in IEC 60990 clause 6.2.2 | Touch current (mA) | Comment | |
| Metal enclosure | - | 2.48 | Limit: 7.07mA | |
| Supplementary Information: - | | | | |

| 5.8 | TABLE: Backfeed safeguard in battery backed up supplies | | | | | N/A |
|---|---|---|---|---|---|---|
| Location | Supply voltage (V) | Operating and fault condition | Time (s) | Open-circuit voltage (V) | Touch current (A) | ES Class |
| - | - | - | - | - | - | - |
| Supplementary information:<br>Abbreviation: SC= short circuit, OC= open circuit | | | | | | |

| 6.2.2 | TABLE: Power source circuit classifications | | | | | P |
|---|---|---|---|---|---|---|
| Location | Operating and fault condition | Voltage (V) | Current (A) | Max. Power[1)] (W) | Time (S) | PS class |
| All primary circuits and components powered by ac supply | Normal condition | - | - | - | 5 | PS3 (declared by manufacturer) |
| Supplementary information:<br>Abbreviation: SC= short circuit; OC= open circuit<br>1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3. | | | | | | |

| 6.2.3.1 | TABLE: Determination of Arcing PIS | P |
|---|---|---|

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |

| Location | Open circuit voltage after 3 s (Vpk) | Measured r.m.s current (A) | Calculated value | Arcing PIS? Yes / No |
|---|---|---|---|---|
| All primary circuits and components and parts | 264Vrms | - | - | Yes (declared) |
| Supplementary information: - | | | | |

| 6.2.3.2 | **TABLE: Determination of resistive PIS** | | P |
|---|---|---|---|
| Location | Operating and fault condition | Dissipate power (W) | Resistive PIS? Yes / No |
| All primary circuits and components and parts | - | - | Yes (declared) |
| Supplementary information:<br>Abbreviation: SC= short circuit; OC= open circuit | | | |

| 8.5.5 | **TABLE: High pressure lamp** | | | N/A |
|---|---|---|---|---|
| Lamp manufacturer | Lamp type | Explosion method | Longest axis of glass particle (mm) | Particle found beyond 1 m Yes / No |
| - | - | - | - | - |
| Supplementary information: - | | | | |

| 9.6 | **TABLE: Temperature measurements for wireless power transmitters** | | | | | | | | N/A |
|---|---|---|---|---|---|---|---|---|---|
| Supply voltage (V).....: | - | | | | | | | | — |
| Max. transmit power of transmitter (W)..... : | - | | | | | | | | — |
| Foreign objects | w/o receiver and direct contact | | with receiver and direct contact | | with receiver and at distance of 2 mm | | with receiver and at distance of 5 mm | |
| | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) | Object (°C) | Ambient (°C) |
| - | - | - | - | - | - | - | - | - |
| Supplementary information: - | | | | | | | | |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |

| 5.4.1.4, 9.3, B.1.5, B.2.6 | TABLE: Temperature measurements | | | | P |
|---|---|---|---|---|---|
| Supply voltage (V): | 90Vac | 264Vac | - | - | — |
| Ambient temperature during test $T_{amb}$ (°C): | See below | See below | - | - | — |
| Maximum measured temperature $T$ of part/at: | $T$ (°C) | | | | Allowed $T_{max}$ (°C) |
| Switch power supply enclosure | 44.4 | 45.2 | - | - | Ref. |
| PCB near U4 | 85.6 | 85.3 | - | - | 130 |
| PCB near U16 | 79.8 | 85.1 | - | - | 130 |
| Internal wire | 54.7 | 65.5 | - | - | 150 |
| Enclosure inside | 63.9 | 62.4 | - | - | 120 |
| Enclosure outside | 51.2 | 53.6 | - | - | 60 |
| FULL COLOR LED DISPLAY | 37.8 | 40.9 | - | - | 77 |
| Handle | 25.1 | 25.0 | - | | 77 |
| Ambient | 25.0 | 25.0 | - | - | - |

| Temperature T of winding: | $t_1$ (°C) | $R_1$ (Ω) | $t_2$ (°C) | $R_2$ (Ω) | T (°C) | Allowed $T_{max}$ (°C) | Insulation class |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Supplementary information:

| B.2.5 | TABLE: Input test | | | | | | | P |
|---|---|---|---|---|---|---|---|---|
| U (V) | Hz | I (A) | I rated (A) | P (W) | P rated (W) | Fuse No | I fuse (A) | Condition/status |
| 90 | 50 | 3.492 | / | 313.9 | / | / | / | Output: 100-240V~, 50/60 Hz, 3A Max |
| 90 | 60 | 3.495 | / | 314.1 | / | / | / | |
| 100 | 50 | 3.017 | 3 | 301.3 | / | / | / | |
| 100 | 60 | 3.019 | 3 | 301.6 | / | / | / | |
| 240 | 50 | 1.281 | 3 | 302.4 | / | / | / | |
| 240 | 60 | 1.284 | 3 | 302.6 | / | / | / | |
| 264 | 50 | 1.152 | / | 301.8 | / | / | / | |
| 264 | 60 | 1.153 | / | 301.9 | / | / | / | |

Supplementary information: -

| B.3, B.4 | TABLE: Abnormal operating and fault condition tests | P |
|---|---|---|

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |

| | | |
|---|---|---|
| Ambient temperature $T_{amb}$ (°C)..... : | 25°C if not specified | — |
| Power source for EUT: Manufacturer, model/type, outputrating... : | - | — |

| Component No. | Condition | Supply voltage (V) | Test time | Fuse no. | Fuse current (A) | Observation |
|---|---|---|---|---|---|---|
| C31 | SC | 264V 60Hz | 30mins | / | / | Unit shutdown immediately and recoverable, no damaged, no hazard. JH1 Touch current: 0.341mA peak |
| U4 pin 1-7 | SC | 264V 60Hz | 30mins | / | / | Unit shutdown immediately and recoverable, no damaged, no hazard. JH1 Touch current: 0.341mA peak |
| Supplementary information: - | | | | | | |

| **M.3** | **TABLE: Protection circuits for batteries provided within the equipment** | N/A |
|---|---|---|
| Is it possible to install the battery in a reverse polarity position?..... | - | — |

| Equipment Specification | Charging | |
|---|---|---|
| | Voltage (V) | Current (A) |
| | - | - |

| Manufacturer/type | Battery specification | | | | | |
|---|---|---|---|---|---|---|
| | Non-rechargeable batteries | | Rechargeable batteries | | | |
| | Discharging current (A) | Unintentional charging current (A) | Charging | | Discharging current (A) | Reverse charging current (A) |
| | | | Voltage (V) | Current (A) | | |
| - | - | - | - | - | - | - |
| Note: The tests of M.3.2 are applicable only when above appropriate data is not available. | | | | | | |
| Specified battery temperature (°C)..... | | | | - | | - |

| Component No. | Fault condition | Charge / discharge mode | Test time | Temp. (°C) | Current (A) | Voltage (V) | Observation |
|---|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| Supplementary information:<br>Abbreviation: SC= short circuit; OC= open circuit; NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal. | | | | | | | |

| **M.4.2** | **TABLE: Charging safeguards for equipment containing a secondary lithium battery** | **N/A** |
|---|---|---|

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |

| | | |
|---|---|---|
| Maximum specified charging voltage (V)..... : | -- | — |
| Maximum specified charging current (A) .....: | -- | — |
| Highest specified charging temperature (°C) .....: | -- | — |
| Lowest specified charging temperature (°C) .....: | -- | — |

| Battery manufacturer/type | Operating and fault condition | Measurement | | | Observation |
|---|---|---|---|---|---|
| | | Charging voltage (V) | Charging current (A) | Temp. (°C) | |
| -- | -- | -- | -- | -- | -- |

Supplementary information:
Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature.

| **Q.1** | **TABLE: Circuits intended for interconnection with building wiring (LPS)** | | | | | | N/A |
|---|---|---|---|---|---|---|---|
| Output Circuit | Condition | $U_{oc}$ (V) | Time (s) | $I_{sc}$ (A) | | S (VA) | |
| | | | | Meas. | Limit | Meas. | Limit |
| -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- |

Supplementary information: -

| **T.2, T.3, T.4, T.5** | **TABLE: Steady force test** | | | | | P |
|---|---|---|---|---|---|---|
| Part/Location | Material | Thickness (mm) | Probe | Force (N) | Test Duration (s) | Observation |
| Internal components / parts | - | - | V.2 | 10 | 5 | No damaged |
| Top enclosure | Metal | - | - | 250 | 5 | No damaged |
| Side enclosure | Metal | - | - | 250 | 5 | No damaged |
| Bottom enclosure | Metal | - | - | 250 | 5 | No damaged |

Supplementary information: -

| **T.6, T.9** | **TABLE: Impact test** | | | P |
|---|---|---|---|---|
| Location/part | Material | Thickness (mm) | Height (mm) | Observation |
| Top enclosure | Metal | -- | 1300 | No damaged |
| Side enclosure | Metal | -- | 1300 | No damaged |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |

| | | | | |
|---|---|---|---|---|
| Bottom enclosure | Metal | -- | 1300 | No damaged |
| Supplementary information: - | | | | |

| T.7 | TABLE: Drop test | | | N/A |
|---|---|---|---|---|
| Location/part | Material | Thickness (mm) | Height (mm) | Observation |
| -- | -- | -- | -- | -- |
| Supplementary information: - | | | | |

| T.8 | TABLE: Stress relief test | | | | N/A |
|---|---|---|---|---|---|
| Location/Part | Material | Thickness (mm) | Oven Temperature (°C) | Duration (h) | Observation |
| -- | -- | -- | -- | -- | -- |
| Supplementary information: - | | | | | |

| X | TABLE: Alternative method for determining minimum clearances distances | | N/A |
|---|---|---|---|
| Clearance distanced between: | Peak of working voltage (V) | Required cl (mm) | Measured cl (mm) |
| -- | -- | -- | -- |
| Supplementary information: - | | | |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |

| 4.1.2 | **TABLE: Critical components information** | | | | P |
|---|---|---|---|---|---|
| Object / part No. | Manufacturer / trademark | Type / model | Technical data | Standard | Mark(s) of conformity[1)] |
| PCB | GuiLin Hentai Electronic Techenology Co., Ltd. | HT-04 | 130ºC, V-0 | UL 796, UL 94 | UL E523822 |
| Switching Power Supply | Shenzhen G-energy Technoligy CO., Ltd. | JPS400PV5.0A7 | Input: 100-240V~, 50/60Hz, 3.0A Max<br>Output : 5.0V DC, 80A(176-240V)<br>Output : 5.0V DC, 50A(100-176V~) | EN IEC 62368-1 | Test report* |
| Metal enclosure | SHENZHEN LINSN LED CO., LTD | - | Steel | - | Tested with appliance |
| LED module | SHENZHEN LINSN LED CO., LTD | MT026 | Pixel pitch:<br>3.91mm | - | Tested with appliance |

Supplementary information:

[1)] Provided evidence ensures the agreed level of compliance. See OD-2039.

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

[3)]* Indicates that the customer is required to provide a certified test report

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |

**ATTACHMENT I TO TEST REPORT**
**IEC 62368-1**
**(JAPAN) NATIONAL DIFFERENCES**
(Audio/video, information and communication technology equipment – Part 1: Safety requirements)

**Differences according to**.....: J62368-1 (2023)

**TRF template used:.....:** IECEE OD-2020-F3, Ed. 1.1

**Attachment Form No**..... : JP_ND_IEC62368_1B

**Attachment Originator**.....: UL (JP)

**Master Attachment**..... : Date 2020-11-06

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| | **National Differences** | | — |
|---|---|---|---|
| 4.1.2 | Where the component, or a characteristic of a component, is a safeguard or a part of a safeguard, components shall comply with the requirements of this standard or, where specified in a requirements clause, with the safety aspects of the relevant JIS component standards or IEC component standards, or components shall have properties equivalent to or better than these. | | N/A |
| 5.6.1 | Mains socket-outlet and appliance outlet shall comply with Clause G.4.2A if they are incorporated as part of the equipment. | | N/A |
| 5.6.2.1 | Mains connection of class 0I equipment:<br>Instructional safeguard in accordance with Clause F.3.6.1A;<br>Mains plug having a lead wire for protective earthing connection of class 0I equipment;<br>Independent main protective earthing terminal installed by ordinary person. | | N/A |
| 5.6.2.2 | This requirement does not apply to internal conductor of the cord set that is covered by the sheath of mains cord and is formed together with mains plug and appliance connector. | | N/A |
| 5.6.3 | In case of class 0I equipment using power supply cord having two conductors (no earthing conductor), the conductor of protective earthing lead wire shall comply with either of the following:<br>– use of annealed copper wire with 1.6 mm diameter or corrosion-inhibiting metal wire having size and strength that are equivalent to or more than the above copper wire<br>– single core cord or single core cab tire cable with 1.25 $mm^2$ or more cross-sectional area | | N/A |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 5.7.3 | For class 0I equipment that is provided with mains socket-outlet in the configuration as specified in JIS C 8282 series or JIS C 8303, or otherwise being considered to comply with relevant regulations, or that is provided with mains appliance outlet as specified in JIS C 8283-2-2 for the purpose of interconnection, the measurement is conducted on the system of the interconnected equipment having a single connection to the mains. | | N/A |
| 5.7.4 | In case of class 0I equipment, touch current shall not exceed 1.41 mA peak or for sinusoidal wave, 1.0 mA r.m.s. when measured using the network specified in Figure 4 of IEC 60990. | | N/A |
| 6.4.3.3 | A fuse complying with JIC C 6575 series or a fuse having equivalent characteristics shall open within 1 s.<br>For Class A fuse of JIS C 6575, replace “2.1 times” by “1.35 times” and in case of Class B fuse of JIS C 6575, replace “2.1 times” by “1.6 times”.<br>A fuse not complying with JIS C 6575 series shall be tested with the breaking capacity taken into account. | | N/A |
| 8.5.4.2.1 | Only three-phase stationary equipment rated more than 200 V ac can be considered as being for use in locations where children are not likely to be present, when complying with Clause F.4. | | N/A |
| 8.5.4.2.2 | For equipment installed where children may be present, an instructional safeguard shall be provided by easily understandable wording in accordance with Clause F.5, except that element 3 is optional. | | N/A |
| 8.5.4.2.4 | The media destruction device is tested according to Clause V.1.2 with applicable jointed test probes to the opening. And then the wedge probe per Figure V.4 shall not contact any moving part. | | N/A |
| 8.5.4.2.5 | The wedge probe of Figure V.4 and applicable jointed test probes specified in Clause V.1.2 shall not contact any moving part.<br>Instructional safeguard shall not be used instead of equipment safeguard for preventing access to hazardous moving parts. | | N/A |
| 9.2.6, Table 38 | Handles, Knobs, grips, etc. and external surfaces either held, touched or worn against the body in normal use (> 1 min) [b,c] | | N/A |
| F.3.5.1 | Instructional safeguard of class 0I equipment in accordance with Clause F.5 when a mains socket-outlet as specified in JIS C 8282 series, JIS C 8303 or relevant regulation to which class I equipment can be connected is provided in accordance with Clause G.4.2A except for the cases where the socket-outlet is accessible only to skilled persons. | | N/A |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| F.3.5.3 | If the fuse is necessary for the safeguard function, the symbols indicating pre-arcing time-current characteristic. | | N/A |
| F.3.6.1A | Marking for class 0I equipment<br>The requirements of Clauses F.3.6.1.1 and F.3.6.1.3 shall be applied to class 0I equipment.<br>For class 0I equipment, a marking of instructions and instructional safeguard shall be provided regarding the earthing connection. | | P |
| F.3.6.2.1 | Symbols, IEC 60417-5172 (2003-02) or IEC 60417-6092 (2011-10), shall not be used for class I equipment or class 0I equipment. | | N/A |
| F.4 | Instruction for audio equipment with terminals classified as ES3 in accordance with Table E.1, and for other equipment with terminals marked in accordance with F.3.6.1 and F.3.6.1A.<br>Installation instruction for the protective earthing connection for class 0I equipment provided with independent main protective earthing terminal, where the cord for the protective earthing connection is not provided within the package for the equipment. | | N/A |
| G.3.2.1 | The thermal link when tested as a separate component, shall comply with the requirements of JIS C 6691 or have properties equivalent to or better than that. | | N/A |
| G.3.4 | Except for devices covered by Clause G.3.5, overcurrent protective devices used as a safeguard shall comply with the relevant part of JIS C 6575 (corresponding to IEC60127) or shall have equivalent characteristics.<br>If there are no applicable IEC standards, overcurrent protective devices used as a safeguard shall comply with their applicable IEC standards. | | N/A |
| G.4.1 | This requirement is not applicable to Clauses G.4.2 and G.4.2A. | | N/A |
| G.4.2 | Mains connector shall comply with JIS C 8282 series, JIS C 8283 series, JIS C 8285, JIS C 8303 or IEC 60309 series.<br>Mains plugs and socket-outlets shall comply with JIS C 8282 series, JIS C 8303, IEC 60309 series, or have equivalent or better performance.<br>A power supply cord set provided with appliance connector that can fit appliance inlet complying with JIS C 8283-1 shall comply with JIS C 8286.<br>Construction preventing mechanical stress not to transmit to the soldering part of inlet terminal.<br>Consideration for an equipment rated not more than 125 V provided with Type C14 and C18 appliance coupler complying with JIS C 8283 series. | | N/A |

| J 62368-1 | | | |
|---|---|---|---|
| Clause | Requirement + Test | Result - Remark | Verdict |
| G.4.2A | Mains socket-outlet and interconnection coupler provided with the class II, class I and class 0I equipment respectively. | | N/A |
| G.7.1 | A mains supply cord need not include the protective earthing conductor for class 0I equipment provided with independent protective earthing conductor. | | N/A |
| G.8.3.3 | Withstand 1,71 × 1.1 × $U_0$ for 5 s. | | N/A |

ATTACHMENT II:Photo

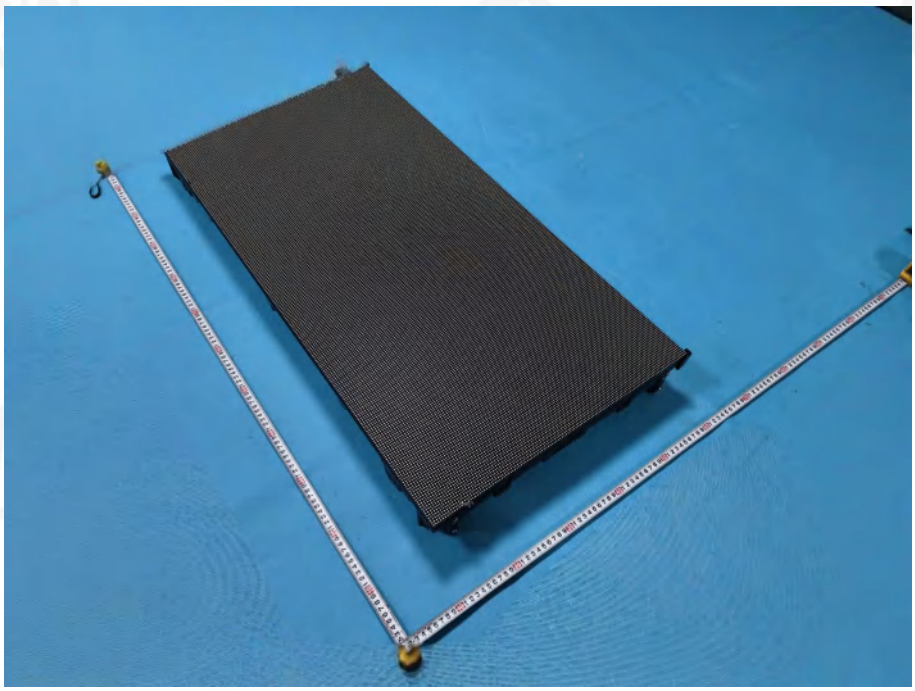

Photo 1

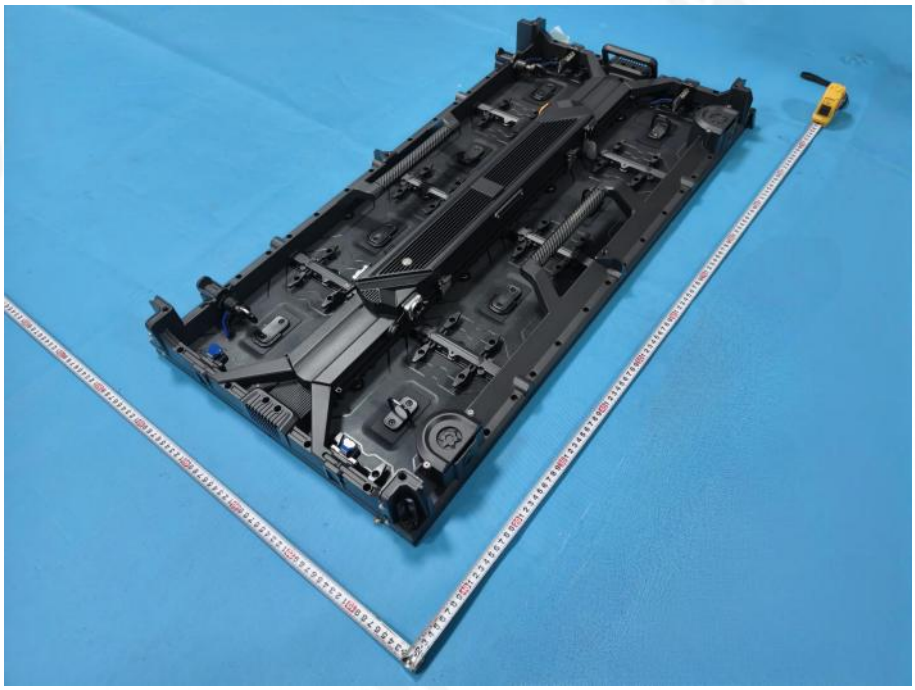

Photo 2

Photo 3

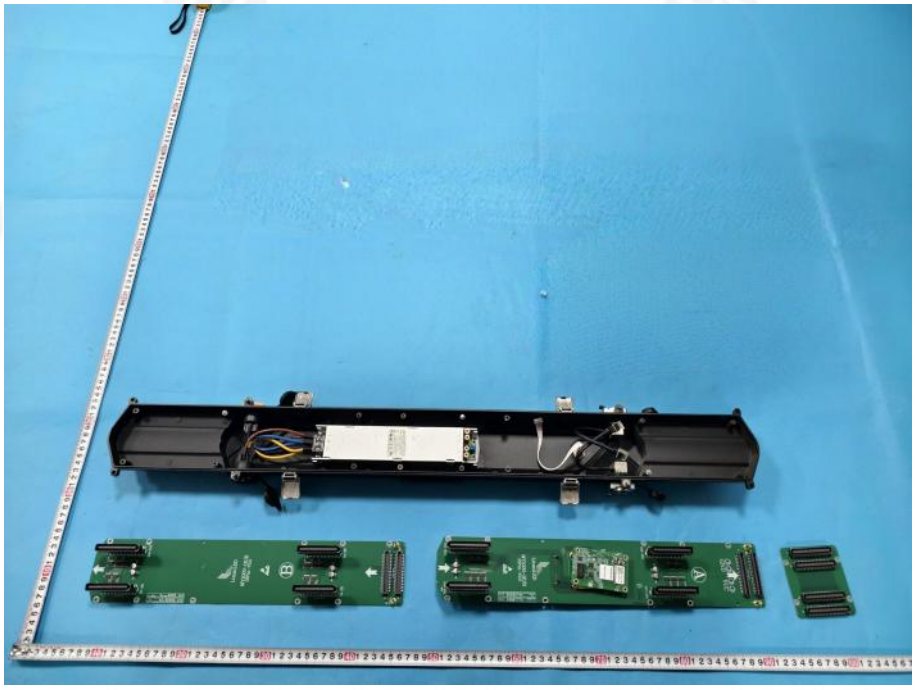

Photo 4

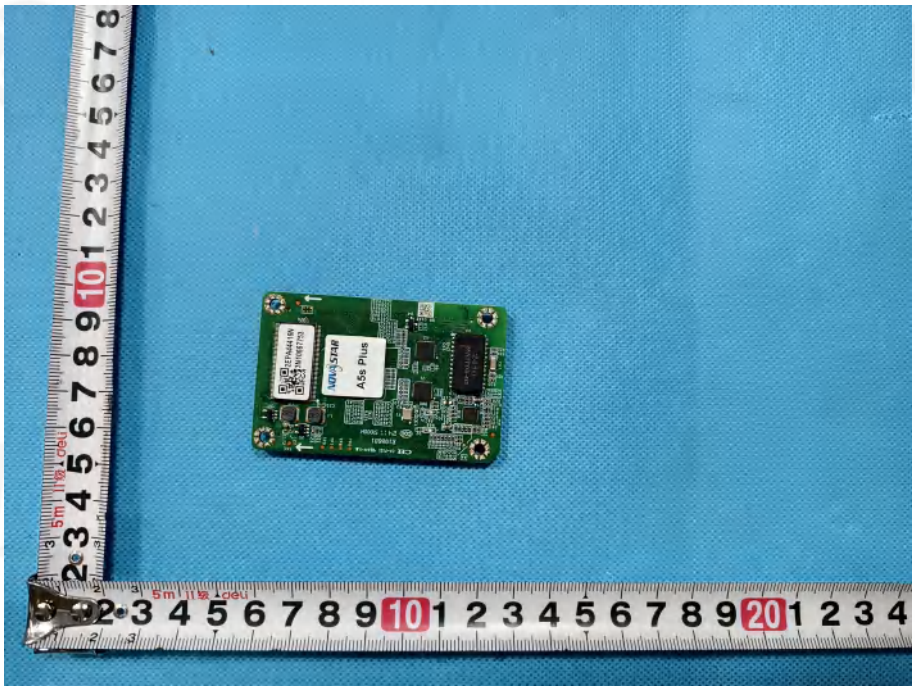


Photo 5

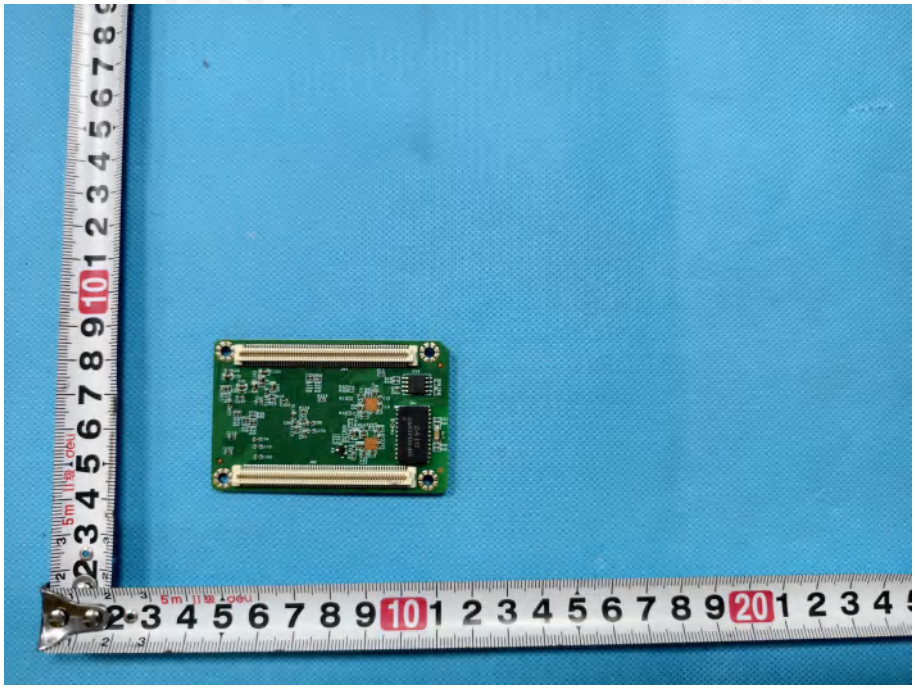

Photo 6

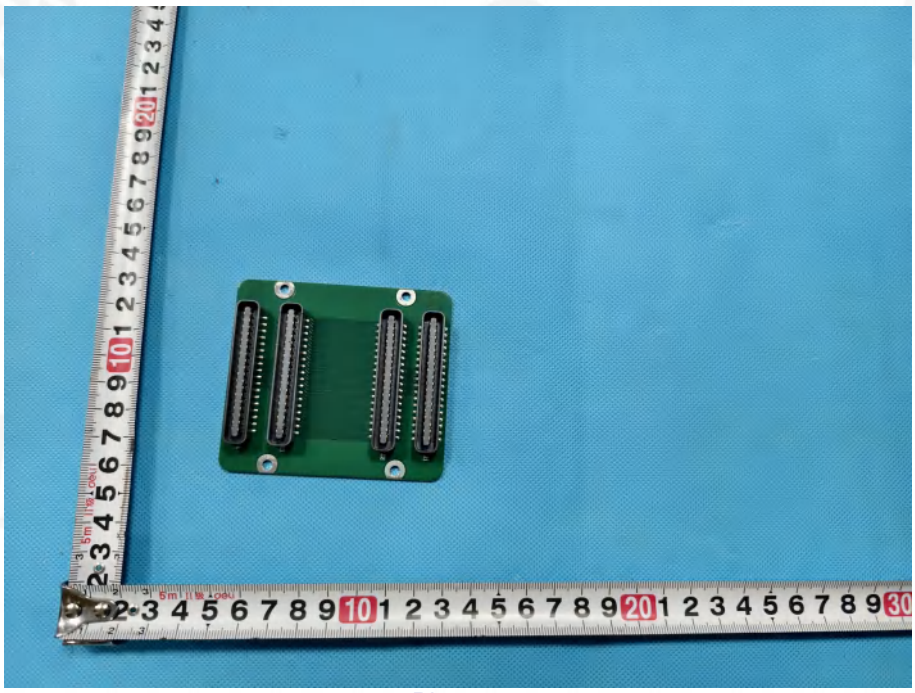

Photo 7

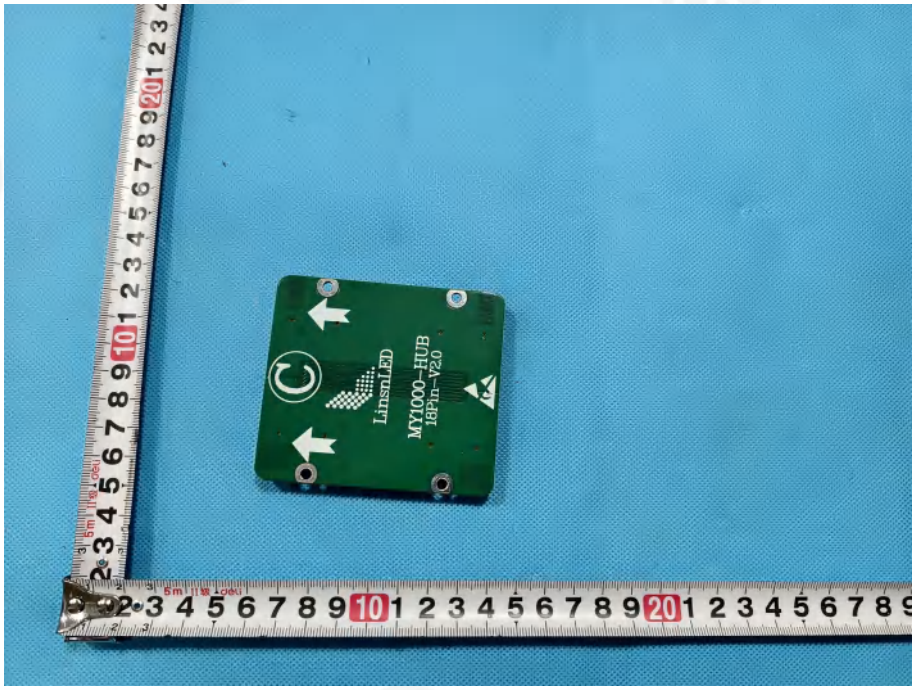


Photo 8

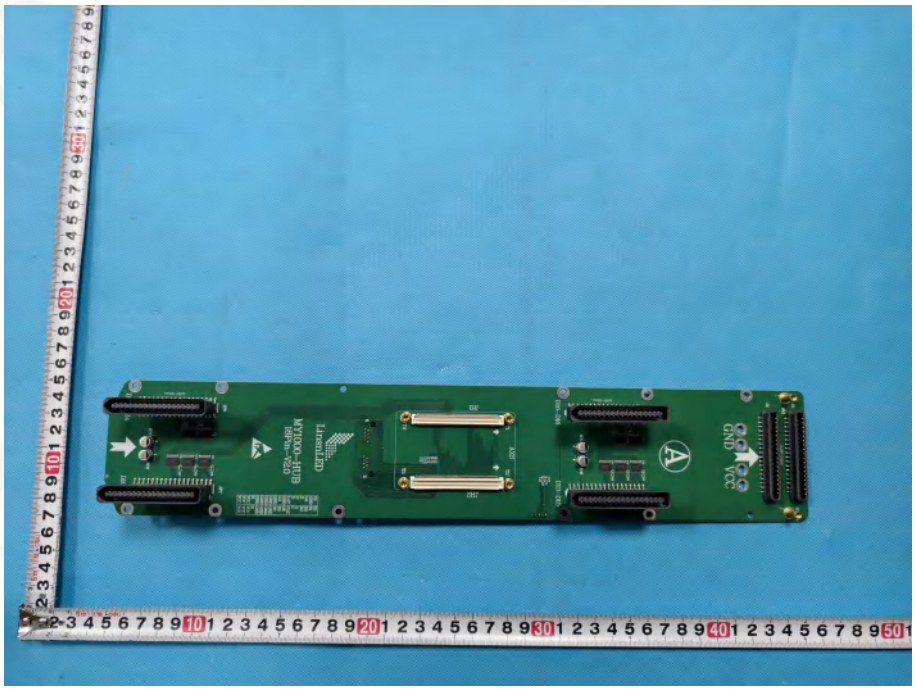

Photo 9

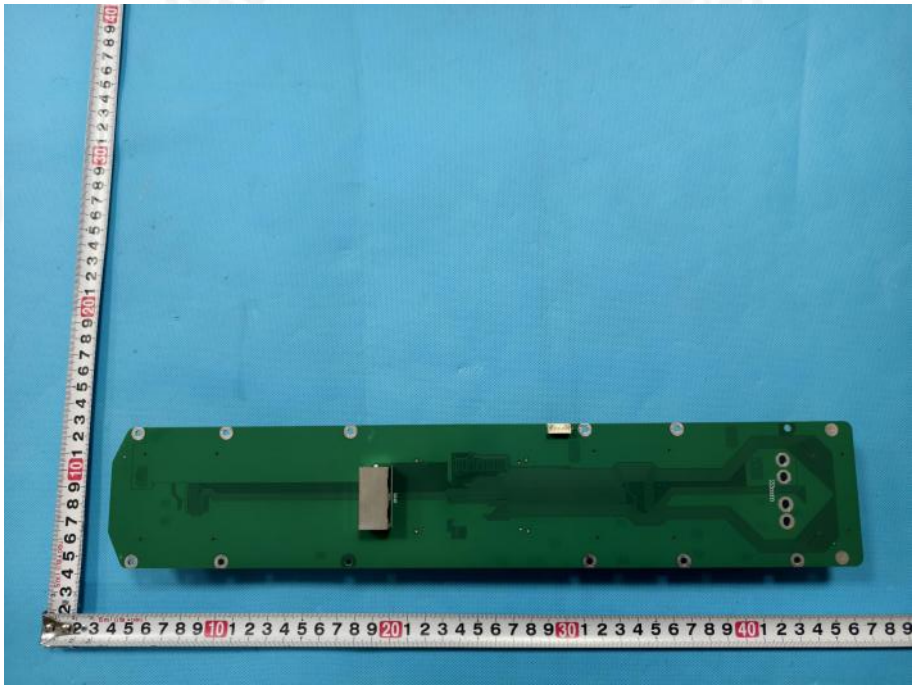

Photo 10

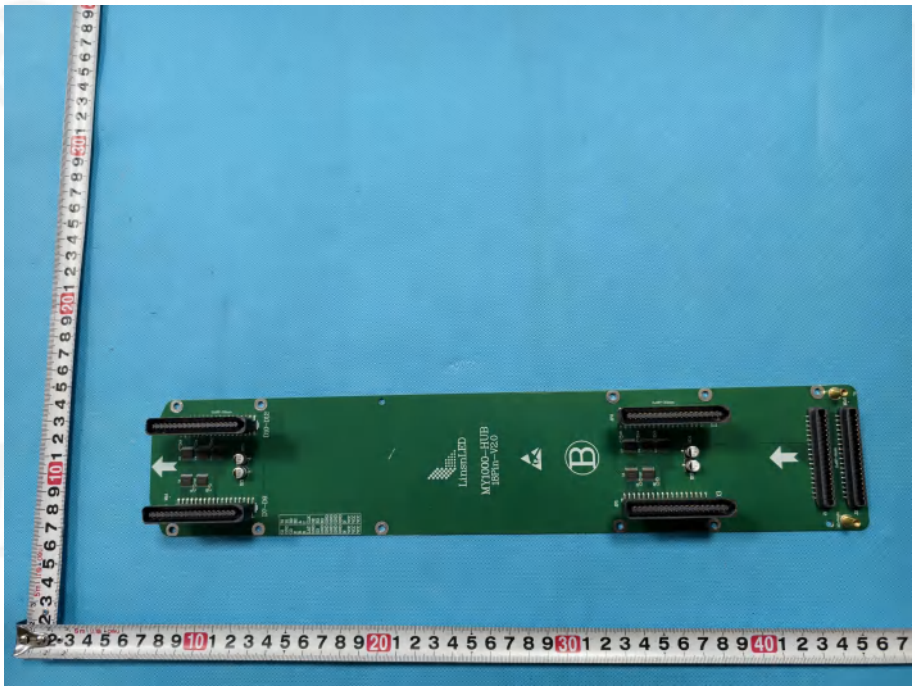

Photo 11

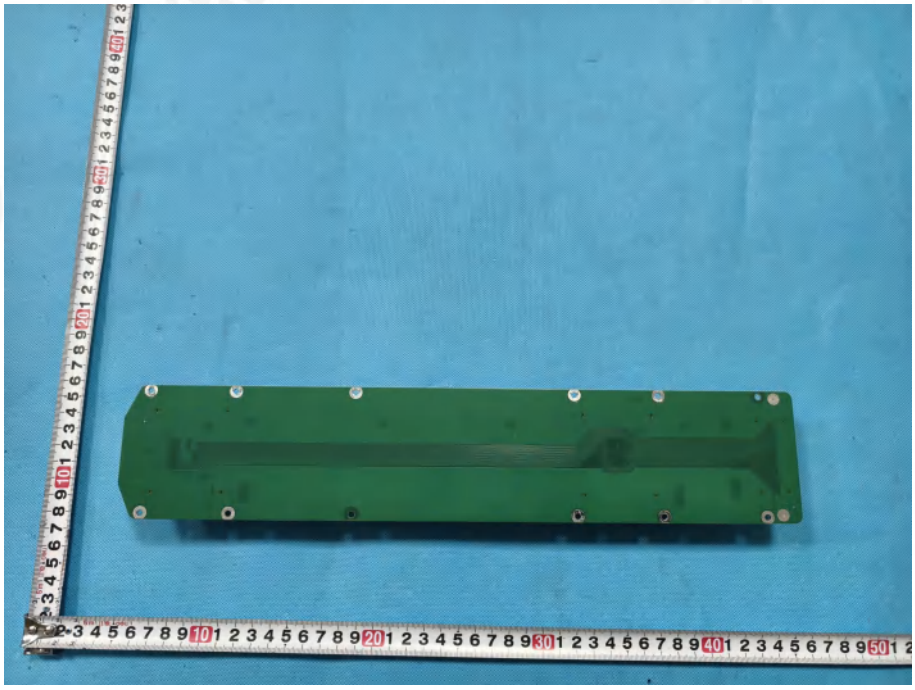

Photo 12

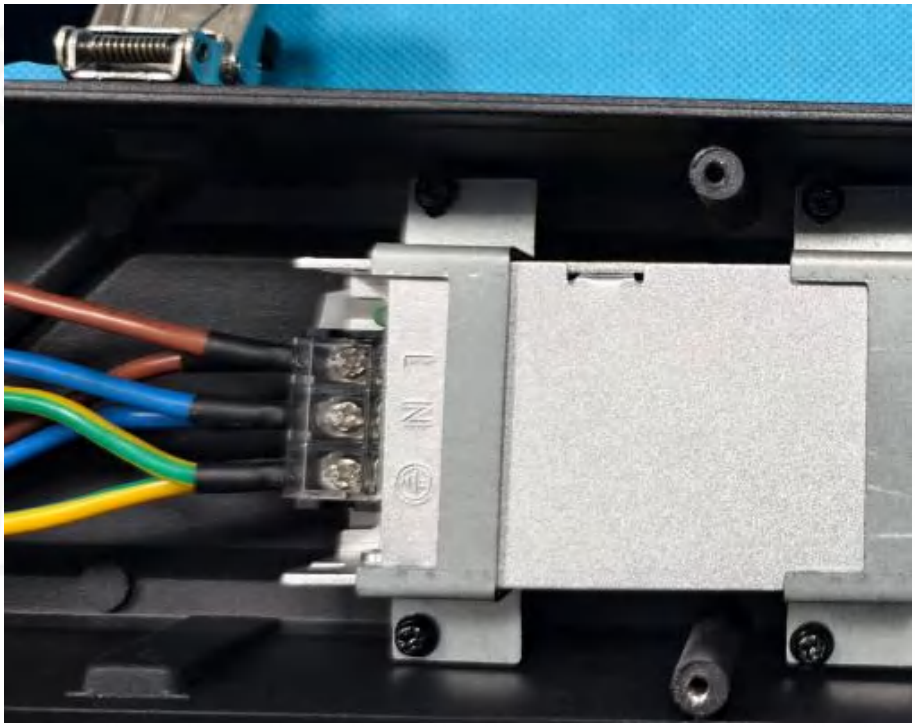


Photo 13

**※※※※ END OF REPORT ※※※※※**