



TEST REPORT

EN 60950-1: 2006+A2:2013

**Information technology equipment – Safety –
Part 1: General requirements**

Report Reference No......: TH19KR-2197S
Tested by (signature)..... : Eric
Reviewed by (signature).....: Prince
Approved by (signature).....: Prince
Date of issue.....: December 04, 2019

Testing Laboratory Name.....: **Shenzhen Tian Hai Test Technology Co., Ltd.**
Address..... : 4F, A3 BLDG, The Silicon Valley Power intelligent terminal industrial park, Guanlan street, Longhua district, Shenzhen
Testing location.....: Same as above

Applicant's Name..... : **Armortec Technology Limited**
Address..... : 6th Floor, Building F1, Jinyucheng Industrial Park, Zhonghao 2nd Road, Bantian County, Longgang District, Shenzhen, China.

Test specification
Standard..... : EN 60950-1: 2006+A2:2013
Test procedure : CE mark
Non-standard test method.....: N/A

Test item description.....: **NETWORK APPLIANCE**
Model and/or type reference.....: NC-334R(ATL-612N4, ATL-C236N4, FW-2361-2O(N), FW-2381-2N, FW-8764-2O, FW-8010, FW-8210, FWA-1781-4O, FWA-8781-4O, FW-B158-4O, FWC-6761, FWD-BT61, FWF-BT41, NC-3860, NC-4010, NC-6010, NC-8210, NC-C362, NCC-BT41S2)
Manufacturer.....: **Armortec Technology Limited**
Address.....: 6th Floor, Building F1, Jinyucheng Industrial Park, Zhonghao 2nd Road, Bantian County, Longgang District, Shenzhen, China.
Rating(s).....: Input: DC 5V,50Hz,2A,10W

**Test item particulars:**

Equipment mobility : Movable equipment
Protection against electric shock.....: Continuous
Mains supply tolerance (%)..... : -10% , +10%
Tested for IT power systems : No
IT testing, phase-phase voltage (V) : N/A
Class of equipment : Class II
Altitude of operation (m) less than 2000 meters
Altitude of test laboratory (m) less than 2000 meters
Protection against ingress of water : IPX0

Test case verdicts

Test case does not apply to the test object : N/A(Not applicable)
Test item does meet the requirement : P(Pass)
Test item does not meet the requirement : F(Fail)

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.
Throughout this report a point is used as the decimal separator.

When determining the test conclusion, the Measurement Uncertainty of test has been considered.
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Copy of Marking Plate:

NETWORK APPLIANCE
Model: NC-334R
Input: DC 5V,50Hz,2A,10W



Armortec Technology Limited
6th Floor, Building F1, Jinyucheng Industrial Park, Zhonghao 2nd Road, Bantian County,
Longgang District, Shenzhen, China.



| | | | |
|---------|--|--|-----|
| 1 | GENERAL | | P |
| 1.5 | Components | | P |
| 1.5.1 | General | See below | P |
| | Comply with IEC 60950 or relevant component standard | | P |
| 1.5.2 | Evaluation and testing of components | Components that 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. | P |
| 1.5.3 | Thermal controls | No thermal controls | N/A |
| 1.5.4 | Transformers | See Annex C | P |
| 1.5.5 | Interconnecting cables | | P |
| 1.5.6 | Capacitors in primary circuits | | P |
| 1.5.7 | Resistors bridging insulation | | P |
| 1.5.7.1 | Resistors bridging functional, basic or supplementary insulation | | P |
| 1.5.7.2 | Resistors bridging double or reinforced insulation between a.c. mains and other circuits | | P |
| 1.5.7.3 | Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable | | P |
| 1.5.8 | Components in equipment for IT power systems | Not for IT power system | N/A |
| 1.5.9 | Surge suppressors | | N/A |
| 1.5.9.1 | General | | N/A |
| 1.5.9.2 | Protection of VDRs | | N/A |
| 1.5.9.3 | Bridging of functional insulation by a VDR | | N/A |
| 1.5.9.4 | Bridging of basic insulation by a VDR | | N/A |
| 1.5.9.5 | Bridging of supplementary, double or reinforced insulation by a VDR | | N/A |
| 1.6 | Power interface | | P |
| 1.6.1 | AC power distribution systems | | N/A |
| 1.6.2 | Input current | 2A | P |
| 1.6.3 | Voltage limit of hand-held equipment | | N/A |
| 1.6.4 | Neutral conductor | N | P |
| 1.7 | Marking and instructions | | P |
| 1.7.1.1 | Power rating mark | | P |
| | Multiple mains supply connections.....: | | N/A |
| | Rated voltage(s) or voltage range(s) (V).....: | DC 5V | P |
| | Symbol for nature of supply, for d.c. only..... : | | N/A |
| | Rated frequency or rated frequency range (Hz).....: | 50Hz | P |



| | | | |
|---------|--|---|-----|
| | Rated current (mA or A)..... : | | P |
| 1.7.1.2 | Identification markings | | P |
| | Manufacturer's name or trademark or identification mark..... : | Lavelle Networks Private Limited | P |
| | Model identification or type reference..... : | H-CP-SFL-M | P |
| | Symbol for Class II equipment only..... : | | N/A |
| | Other markings and symbols..... : | Additional symbols may be provided when submitted for International Approval. | P |
| 1.7.1.3 | Use of graphical symbols | | P |
| 1.7.2 | Safety instructions and marking | Operating/safety instructions made available to the user. | P |
| 1.7.2.1 | General | | P |
| 1.7.2.2 | Disconnect devices | Plug | P |
| 1.7.2.3 | Overcurrent protective devices | Fuse resistance | P |
| 1.7.2.4 | IT power distribution systems | | N/A |
| 1.7.2.5 | Operator access with a tool | | P |
| 1.7.2.6 | Ozone | | N/A |
| 1.7.3 | Short duty cycles | Equipment is designed for continuous operation. | N/A |
| 1.7.4 | Supply voltage adjustment | No voltage adjustment | N/A |
| | Methods and means of adjustment; reference to installation instructions | | N/A |
| 1.7.5 | Power outlets on the equipment | | P |
| 1.7.6 | Fuse identification (marking, special fusing characteristics, cross-reference) | Fuse resistance | P |
| 1.7.7 | Wiring terminals | See below. | P |
| 1.7.7.1 | Protective earthing and bonding terminals | | N/A |
| 1.7.7.2 | Terminal for a.c. mains supply conductors | | P |
| 1.7.7.3 | Terminals for d.c. mains supply conductors | | N/A |
| 1.7.8 | Controls and indicators | | P |
| 1.7.8.1 | Identification, location and marking | On enclosure | P |
| 1.7.8.2 | Colours | | P |
| 1.7.8.3 | Symbols according to IEC 60417..... : | | P |
| 1.7.8.4 | Markings using figures | | P |
| 1.7.9 | Isolation of multiple power sources | Only one supply from the mains. | N/A |
| 1.7.10 | Thermostats and other regulating devices | | N/A |



| | | | |
|--------|---|---|-----|
| 1.7.11 | Durability | The labels were subjected to the permanence of marking test. The labels were rubbed with cloth soaked with water for 15 s and then again for 15 s with the cloth soaked with petroleum spirit. After this test there was no damage to the labels. The marking on the labels did not fade. There was no curling or lifting of the label's edges. | P |
| 1.7.12 | Removable parts | Power connector | P |
| 1.7.13 | Replaceable batteries | No batteries | N/A |
| | Language(s)..... : | | -- |
| 1.7.14 | Equipment for restricted access locations.....: | Equipment not intended for use in restricted access location. | N/A |

| | | | |
|---------|---|---|-----|
| 2 | PROTECTION FROM HAZARDS | | P |
| 2.1 | Protection from electric shock and energy hazards | | P |
| 2.1.1 | Protection in operator access areas | See below | P |
| 2.1.1.1 | Access to energized parts | See below. | P |
| | Test by inspection.....: | Operator can not contact with any parts with only basic insulation to ELV or hazardous voltage. | P |
| | Test with test finger (Figure 2A).....: | No access with test finger to any parts with only basic insulation to ELV or hazardous voltage. | P |
| | Test with test pin (Figure 2B)..... : | | P |
| | Test with test probe (Figure 2C)..... : | No TNV present. | N/A |
| 2.1.1.2 | Battery compartments | | N/A |
| 2.1.1.3 | Access to ELV wiring | | P |
| | Working voltage (V _{peak} or V _{rms}); minimum distance through insulation (mm)..... : | -- | -- |
| | Working voltage (V _{peak} or V _{rms}); minimum distance through insulation (mm).....: | | -- |
| 2.1.1.4 | Access to hazardous voltage circuit wiring | | P |
| 2.1.1.5 | Energy hazards | | P |
| 2.1.1.6 | Manual controls | | P |
| 2.1.1.7 | Discharge of capacitors in equipment | | P |
| | Time-constant (s); measured voltage (V)..... : | | P |
| 2.1.1.8 | Energy hazards – d.c. mains supplies | | N/A |
| | a) Capacitor connected to the d.c. mains supply..... : | | N/A |



| | | | |
|---------|--|--|-----|
| | b) Internal battery connected to the mains supply.....: | | N/A |
| 2.1.1.9 | Audio amplifiers in information technology equipment | | N/A |
| 2.1.2 | Protection in service access areas | . | P |
| 2.1.3 | Protection in restricted access locations | The unit is not limited to be used in restricted access locations. | N/A |
| 2.2 | SELV circuits | | P |
| 2.2.1 | General requirements | See below. | P |
| 2.2.2 | Voltages under normal conditions (V)..... : | Between any conductor of the SELV circuits 42.4V peak or 60Vd.c. are not exceeded. | P |
| 2.2.3 | Voltages under fault conditions (V)..... : | | N/A |
| 2.2.4 | Connection of SELV circuits to other circuits.....: | | N/A |
| 2.3 | TNV circuits | | N/A |
| 2.3.1 | Limits | No TNV circuits. | N/A |
| | Type of TNV circuits.....: | | -- |
| 2.3.2 | Separation from other circuits and from accessible parts | | N/A |
| | Insulation employed..... : | | -- |
| 2.3.2.1 | General requirements | | N/A |
| 2.3.2.2 | Protection by basic insulation | | N/A |
| 2.3.2.3 | Protection by earthing | | N/A |
| 2.3.2.4 | Protection by other constructions | | N/A |
| 2.3.3 | Separation from hazardous voltages | | N/A |
| | Insulation employed..... : | | -- |
| 2.3.4 | Connection of TNV circuits to other circuits | | N/A |
| | Insulation employed..... : | | -- |
| 2.3.5 | Test for operating voltages generated externally | | N/A |
| 2.4 | Limited current circuits | | P |
| 2.4.1 | General requirements | See below. | P |
| 2.4.2 | Limit values | 0.7mA Peak | P |
| | Frequency (Hz)..... : | 50Hz | -- |
| | Measured current (mA)..... : | 0.092 | -- |
| | Measured voltage (V)..... : | | -- |
| | Measured capacitance (μF).....: | | -- |
| 2.4.3 | Connection of limited current circuits to other circuits | | P |
| 2.5 | Limited power sources | | P |
| | a) Inherently limited output | | N/A |
| | b) Impedance limited output | | N/A |
| | c) Regulating network limited output under normal operating and single fault condition | | N/A |



| | | | |
|---------|--|--|-----|
| | Use of integrated circuit (IC) current limiters..... : | | -- |
| | d) Overcurrent protective device limited output | | P |
| | Max. Output voltage (V), max. Output current (A), max. Apparent power (VA).....: | | -- |
| | Current rating of overcurrent protective device (A).....: | | -- |
| 2.6 | Provisions for earthing and bonding | | N/A |
| 2.6.1 | Protective earthing | | N/A |
| 2.6.2 | Functional earthing | | N/A |
| 2.6.3 | Protective earthing and protective bonding conductors | | N/A |
| 2.6.3.1 | General | | N/A |
| 2.6.3.2 | Size of protective earthing conductors | | N/A |
| | Rated current (A), cross-sectional area (mm ²), AWG. : | | -- |
| 2.6.3.3 | Size of protective bonding conductors | | N/A |
| | Rated current (A), cross-sectional area (mm ²), AWG. : | | -- |
| 2.6.3.4 | Resistance (Ω) of earthing conductors and their terminations, test current (A).....: | | N/A |
| 2.6.3.5 | Colour of insulation..... : | | N/A |
| 2.6.4 | Terminals | | N/A |
| 2.6.4.1 | General | | N/A |
| 2.6.4.2 | Protective earthing and bonding terminals | | N/A |
| | Rated current (A), type and nominal thread diameter (mm)..... : | | -- |
| 2.6.4.3 | Separation of the protective earthing conductor from protective bonding conductors | | N/A |
| 2.6.5 | Integrity of protective earthing | | N/A |
| 2.6.5.1 | Interconnection of equipment | | N/A |
| 2.6.5.2 | Components in protective earthing conductors and protective bonding conductors | | N/A |
| 2.6.5.3 | Disconnection of protective earth | | N/A |
| 2.6.5.4 | Parts that can be removed by an operator | | N/A |
| 2.6.5.5 | Parts removed during servicing | | N/A |
| 2.6.5.6 | Corrosion resistance | | N/A |
| 2.6.5.7 | Screws for protective bonding | | N/A |
| 2.6.5.8 | Reliance on telecommunication network or cable distribution system | | N/A |
| 2.7 | Overcurrent and earth fault protection in primary circuits | | P |
| 2.7.1 | Basic requirements | Protection provided as part of the building installation. | P |



| | | | |
|----------|---|--|-----|
| | Instructions when protection relies on building installation | | P |
| 2.7.2 | Faults not covered in 5.3 | The protection devices are well dimensioned and mounted. | P |
| 2.7.3 | Short-circuit backup protection | | P |
| 2.7.4 | Number and location of protective devices | One protective device in the "LIVE" phase. | P |
| 2.7.5 | Protection by several devices | Protection by one fuse. | N/A |
| 2.7.6 | Warning to service personnel..... | | P |
| 2.8 | Safety interlocks | | N/A |
| 2.8.1 | General principles | No such part | N/A |
| 2.8.2 | Protection requirements | | N/A |
| 2.8.3 | Inadvertent reactivation | | N/A |
| 2.8.4 | Fail-safe operation | | N/A |
| 2.8.5 | Moving parts | | N/A |
| 2.8.6 | Overriding | | N/A |
| 2.8.7 | Switches and relays | | N/A |
| 2.8.7.1 | Contact gaps (mm) | | N/A |
| 2.8.7.2 | Overload test | | N/A |
| 2.8.7.3 | Endurance test | | N/A |
| 2.8.7.4 | Electric strength test | | N/A |
| 2.8.8 | Mechanical actuators | | N/A |
| 2.9 | Electrical insulation | | P |
| 2.9.1 | Properties of insulating materials | | P |
| 2.9.2 | Humidity conditioning | 48 hours | P |
| | Relative humidity (%), temperature (°C)..... | 95%, 31deg C | — |
| 2.9.3 | Grade of insulation | | P |
| 2.9.4 | Separation from hazardous voltages | | P |
| | Method(s) used..... | Primary circuit separated from Secondary circuit by double or reinforced insulation. | -- |
| 2.10 | Clearances, creepage distances and distances through insulation | | P |
| 2.10.1 | General | | P |
| 2.10.1.1 | Frequency | | P |
| 2.10.1.2 | Pollution degrees | Pollution degree 2 applicable | P |
| 2.10.1.3 | Reduced values for functional insulation | | N/A |
| 2.10.1.4 | Intervening unconnected conductive parts | | N/A |
| 2.10.1.5 | Insulation with varying dimensions | | N/A |
| 2.10.1.6 | Special separation requirements | | N/A |



| | | | |
|----------|---|---|-----|
| 2.10.1.7 | Insulation in circuits generating starting pulses | | N/A |
| 2.10.2 | Determination of working voltage | | P |
| 2.10.2.1 | General | | P |
| 2.10.2.2 | RMS working voltage | | N/A |
| 2.10.2.3 | Peak working voltage | | P |
| 2.10.3 | Clearances | | P |
| 2.10.3.2 | Mains transient voltages | | P |
| | a) AC mains supply..... : | | N/A |
| | b) Earthed d.c. mains supplies.....: | DC 5V | P |
| | c) Unearthed d.c. mains supplies.....: | | N/A |
| | d) Battery operation.....: | | N/A |
| 2.10.3.3 | Clearances in primary circuits | | P |
| 2.10.3.4 | Clearances in secondary circuits | | P |
| 2.10.3.5 | Clearances in circuits having starting pulses | | P |
| 2.10.3.6 | Transients from a.c. mains supply.....: | 1500 Vpk assumed in secondary circuits | P |
| 2.10.3.7 | Transients from d.c. mains supply..... : | | N/A |
| 2.10.3.8 | Transients from telecommunication networks and cable distribution systems.....: | | N/A |
| 2.10.3.9 | Measurement of transient voltage levels | | P |
| | a) Transients from a mains supply | | P |
| | For an a.c. mains supply.....: | | P |
| | For a d.c. mains supply.....: | | N/A |
| | b) Transients from a telecommunication network | | N/A |
| 2.10.4 | Creepage distances | | P |
| 2.10.4.1 | General | | P |
| 2.10.4.2 | Material group and comparative tracking index | | P |
| | CTI tests..... : | Material group IIIb; 100 <= CTI < 175. | -- |
| 2.10.4.3 | Minimum creepage distances | | P |
| 2.10.5 | Solid insulation | Solid or laminated insulating materials having adequate thickness are provided. | P |
| 2.10.5.1 | General | | P |
| 2.10.5.2 | Distances through insulation | | P |
| 2.10.5.3 | Insulating compound as solid insulation | | P |
| 2.10.5.4 | Semiconductor devices | | N/A |
| 2.10.5.5 | Cemented joints | | N/A |
| 2.10.5.6 | Thin sheet material – General | | N/A |
| 2.10.5.7 | Separable thin sheet material | | N/A |



| | | | |
|-----------|---|--|-----|
| | Number of layers (pcs)..... : | | -- |
| 2.10.5.8 | Non-separable thin sheet material | | N/A |
| 2.10.5.9 | Thin sheet material – standard test procedure | | N/A |
| | Electric strength test..... | | -- |
| 2.10.5.10 | Thin sheet material – alternative test procedure | | N/A |
| | Electric strength test..... | | -- |
| 2.10.5.11 | Insulation in wound components | | P |
| 2.10.5.12 | Wire in wound components | | P |
| | Working voltage..... : | | P |
| | a) Basic insulation not under stress..... : | | P |
| | b) Basic, supplementary, reinforced insulation..... : | | P |
| | c) Compliance with Annex U..... : | | P |
| | Two wires in contact inside wound component; angle between 45° and 90°..... : | | P |
| 2.10.5.13 | Wire with solvent-based enamel in wound components | | N/A |
| | Electric strength test..... | | -- |
| | Routine test | | N/A |
| 2.10.5.14 | Additional insulation in wound components | | N/A |
| | Working voltage..... : | | N/A |
| | - Basic insulation not under stress..... : | | N/A |
| | - Supplementary, reinforced insulation..... : | | N/A |
| 2.10.6 | Coated printed boards | | P |
| 2.10.6.1 | Uncoated printed boards | | N/A |
| 2.10.6.2 | Coated printed boards | | P |
| 2.10.6.3 | Insulation between conductors on the same inner surface of a printed board | | P |
| 2.10.6.4 | Insulation between conductors on different surfaces of a printed board | | P |
| 2.10.7 | Enclosed and sealed parts..... : | | N/A |
| 2.10.8 | Tests on coated printed boards and coated components | Photo couplers are approved components. No other components applied for. | P |
| 2.10.8.1 | Sample preparation and preliminary inspection | | P |
| 2.10.8.2 | Thermal conditioning | | P |
| 2.10.8.3 | Electric strength test | | -- |
| 2.10.8.4 | Abrasion resistance test | | P |
| 2.10.9 | Thermal cycling | | N/A |
| 2.10.10 | Test for Pollution Degree 1 environment and for insulating compound | | N/A |



| | | | |
|---------|--|---|-----|
| 2.10.11 | Tests for semiconductor devices and for cemented joints | | N/A |
| 2.10.12 | Enclosed and sealed parts | | N/A |
| 3 | WIRING, CONNECTIONS AND SUPPLY | | P |
| 3.1 | General | | P |
| 3.1.1 | Current rating and overcurrent protection | | P |
| 3.1.2 | Protection against mechanical damage | | P |
| 3.1.3 | Securing of internal wiring | | P |
| 3.1.4 | Insulation of conductors | | P |
| 3.1.5 | Beads and ceramic insulators | Not used. | N/A |
| 3.1.6 | Screws for electrical contact pressure | No screws used for electrical connection. | N/A |
| 3.1.7 | Insulating materials in electrical connections | | N/A |
| 3.1.8 | Self-tapping and spaced thread screws | No self tapping screws are used. | N/A |
| 3.1.9 | Termination of conductors | | P |
| | 10 N pull test | | P |
| 3.1.10 | Sleeving on wiring | | N/A |
| 3.2 | Connection to mains supply | | P |
| 3.2.1 | Means of connection | | P |
| 3.2.1.1 | Connection to an a.c. mains supply | Connect to an a.c. mains | P |
| 3.2.1.2 | Connection to a d.c. mains supply | | N/A |
| 3.2.2 | Multiple supply connections | | N/A |
| 3.2.3 | Permanently connected equipment | | N/A |
| | Number of conductors, diameter (mm) of cable and conduits | | -- |
| 3.2.4 | Appliance inlets | | N/A |
| 3.2.5 | Power supply cords | | P |
| 3.2.5.1 | AC power supply cords | | P |
| | Type: | | -- |
| | Rated current (A), cross-sectional area (mm ²), AWG: | | -- |
| 3.2.5.2 | DC power supply cords | | N/A |
| 3.2.6 | Cord anchorages and strain relief | | N/A |
| | Mass of equipment (kg), pull (N) | | -- |
| | Longitudinal displacement (mm) | | -- |
| 3.2.7 | Protection against mechanical damage | | P |
| 3.2.8 | Cord guards | | N/A |
| | D (mm); test mass (g) | | -- |



| | | | |
|--------|--|--|-----|
| | Radius of curvature of cord (mm)..... : | | -- |
| 3.2.9 | Supply wiring space | | P |
| 3.3 | Wiring terminals for connection of external conductors | | N/A |
| 3.3.1 | Wiring terminals | | N/A |
| 3.3.2 | Connection of non-detachable power supply cords | | N/A |
| 3.3.3 | Screw terminals | | N/A |
| 3.3.4 | Conductor sizes to be connected | | N/A |
| | Rated current (A), cord/cable type, cross-sectional area (mm ²)..... : | | -- |
| 3.3.5 | Wiring terminal sizes | | N/A |
| | Rated current (A), type and nominal thread diameter (mm) | | -- |
| 3.3.6 | Wiring terminals design | | -- |
| 3.3.7 | Grouping of wiring terminals | | N/A |
| 3.3.8 | Stranded wire | | N/A |
| 3.4 | Disconnection from the mains supply | | P |
| 3.4.1 | General requirement | | P |
| 3.4.2 | Disconnect devices | | P |
| 3.4.3 | Permanently connected equipment | Not permanently connected equipment. | N/A |
| 3.4.4 | Parts which remain energized | | N/A |
| 3.4.5 | Switches in flexible cords | | N/A |
| 3.4.6 | Single-phase equipment and d.c. equipment | 5V | P |
| 3.4.7 | Three-phase equipment | | N/A |
| 3.4.8 | Switches as disconnect devices | | N/A |
| 3.4.9 | Plugs as disconnect devices | | P |
| 3.4.10 | Interconnected equipment | | P |
| 3.4.11 | Multiple power sources | | N/A |
| 3.5 | Interconnection of equipment | | P |
| 3.5.1 | General requirements | Interconnection circuits of SELV through the DC output connectors. | P |
| 3.5.2 | Types of interconnection circuits..... : | Interconnection circuits are LIMITED POWER SOURCE CIRCUITS and SELV circuit. | P |
| 3.5.3 | ELV circuits as interconnection circuits | . | N/A |
| 3.5.4 | Data ports for additional equipment | | N/A |
| 4 | PHYSICAL REQUIREMENTS | | P |
| 4.1 | Stability | | N/A |



| | | | |
|--------|---|--|-----|
| | Angle of 10° | <7kg | N/A |
| | Test: force (N)..... : | | N/A |
| 4.2 | Mechanical strength | | P |
| 4.2.1 | General | | P |
| 4.2.2 | Steady force test, 10 N | No energy or other hazards. | P |
| 4.2.3 | Steady force test, 30 N | | N/A |
| 4.2.4 | Steady force test, 250 N | | N/A |
| 4.2.5 | Impact test | | P |
| | Fall test | | P |
| | Swing test | | P |
| 4.2.6 | Drop test | | P |
| 4.2.7 | Stress relief test | No indication of shrinkage or distortion on enclosures due to the stress relief test (7 hours) | P |
| 4.2.8 | Cathode ray tubes | No CRT in the unit. | N/A |
| | Picture tube separately certified..... : | | N/A |
| 4.2.9 | High pressure lamps | No high pressure lamp provided. | N/A |
| 4.2.10 | Wall or ceiling mounted equipment; force (N) : | Not wall or ceiling mounted equipment. | N/A |
| 4.3 | Design and construction | | P |
| 4.3.1 | Edges and corners | All edges and corners judged to be sufficiently well rounded so as not to constitute a hazard. | P |
| 4.3.2 | Handles and manual controls; force (N)..... : | | N/A |
| 4.3.3 | Adjustable controls | No such controls provided. | N/A |
| 4.3.4 | Securing of parts | | P |
| 4.3.5 | Connection of plugs and sockets | | P |
| 4.3.6 | Direct plug-in equipment | | N/A |
| | Torque and pull test of mains plug for direct plug-in; torque (Nm); pull (N): | 0.16Nm | P |
| 4.3.7 | Heating elements in earthed equipment | No such elements. | N/A |
| 4.3.8 | Batteries | | N/A |
| 4.3.9 | Oil and grease | Insulation in intended use not considered to be exposed to oil or grease. | N/A |
| 4.3.10 | Dust, powders, liquids and gases | Equipment in intended use not considered to be exposed to these. | N/A |
| 4.3.11 | Containers for liquids or gases | No container for liquids or gases provided. | N/A |
| 4.3.12 | Flammable liquids..... : | No flammable liquids provided. | N/A |



| | | | |
|----------|---|--------------------------|-----|
| | Quantity of liquid (l).....: | | N/A |
| | Flash point (°C).....: | | N/A |
| 4.3.13 | Radiation; type of radiation | | N/A |
| 4.3.13.1 | General | | N/A |
| 4.3.13.2 | Ionizing radiation | No ionizing radiation | N/A |
| | Measured radiation (pA/kg) | | -- |
| | Measured high-voltage (kV) | | -- |
| | Measured focus voltage (kV) | | -- |
| | CRT markings | | -- |
| 4.3.13.3 | Effect of ultraviolet (UV) radiation on materials | | N/A |
| | Part, property, retention after test, flammability classification | | N/A |
| 4.3.13.4 | Human exposure to ultraviolet (UV) radiation | | N/A |
| 4.3.13.5 | Laser (including LEDs) | | N/A |
| | Laser class | | -- |
| 4.3.13.6 | Other types | | N/A |
| 4.4 | Protection against hazardous moving parts | | N/A |
| 4.4.1 | General | | N/A |
| 4.4.2 | Protection in operator access areas | | N/A |
| 4.4.3 | Protection in restricted access locations | | N/A |
| 4.4.4 | Protection in service access areas | | N/A |
| 4.5 | Thermal requirements | | P |
| 4.5.1 | General | (see appended table 4.5) | P |
| 4.5.2 | Normal load condition per Annex L..... : | (see appended table 4.5) | P |
| 4.5.3 | Temperature limits for materials | (see appended table 4.5) | P |
| 4.5.4 | Touch temperature limits | (see appended table 4.5) | P |
| 4.5.5 | Resistance to abnormal heat..... : | | P |
| 4.6 | Openings in enclosures | | N/A |
| 4.6.1 | Top and side openings | No openings | N/A |
| | Dimensions (mm) | | -- |
| 4.6.2 | Bottoms of fire enclosures | | N/A |
| | Construction of the bottom, dimensions (mm).....: | No opening. | -- |
| 4.6.3 | Doors or covers in fire enclosures | | N/A |
| 4.6.4 | Openings in transportable equipment | | N/A |
| 4.6.4.1 | Constructional design measures | | N/A |
| 4.6.4.2 | Evaluation measures for larger openings | | N/A |
| 4.6.4.3 | Use of metallized parts | | N/A |
| 4.6.5 | Adhesives for constructional purposes | | N/A |
| | Conditioning temperature (°C)/time (weeks)..... : | | -- |



| | | | |
|---------|--|--|-----|
| 4.7 | Resistance to fire | | P |
| 4.7.1 | Reducing the risk of ignition and spread of flame | No excessive temperatures. No easily burning materials employed. Safety relevant components used within their specified temperature limits | P |
| | Method 1, selection and application of components wiring and materials | | P |
| | Method 2, application of all of simulated fault condition tests | | N/A |
| 4.7.2 | Conditions for a fire enclosure | Use fire enclosure. | P |
| 4.7.2.1 | Parts requiring a fire enclosure | A fire enclosure covers all parts except as noted in 4.7.2.2. | P |
| 4.7.2.2 | Parts not requiring a fire enclosure | Output cord supplied by a limited power source complying with 2.5 | P |
| 4.7.3 | Materials | | P |
| 4.7.3.1 | General | See below. | P |
| 4.7.3.2 | Materials for fire enclosures | Equipment is moveable with mass less than 18 kg. Fire enclosure material is V-1 minimum. | P |
| 4.7.3.3 | Materials for components and other parts outside fire enclosures | Output cord supplied by a limited power source complying with 2.5 | P |
| 4.7.3.4 | Materials for components and other parts inside fire enclosures | Electronic components are mounted on a class V-0 PCB. | P |
| 4.7.3.5 | Materials for air filter assemblies | | N/A |
| 4.7.3.6 | Materials used in high-voltage components | | N/A |

| | | | |
|---------|---|---|-----|
| 5 | ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS | | P |
| 5.1 | Touch current and protective conductor current | | P |
| 5.1.1 | General | See below. | P |
| 5.1.2 | Equipment under test (EUT) | Equipment designed for connection to only one power source. | P |
| 5.1.2.1 | Single connection to an a.c. mains supply | | P |
| 5.1.2.2 | Redundant multiple connections to an a.c. mains supply | | N/A |
| 5.1.2.3 | Simultaneous multiple connections to an a.c. mains supply | | N/A |
| 5.1.3 | Test circuit | Equipment of figure 5A used. | P |
| 5.1.4 | Application of measuring instrument | Using measuring instrument in annex D. | P |



| | | | |
|---------|--|--|-----|
| 5.1.5 | Test procedure | Test made on 10 x 20 cm metal foil in contact with accessible non-conductive part. | P |
| 5.1.6 | Test measurements | See appended table 5.1. | P |
| | Test voltage (V) | See appended table 5.1 | -- |
| | Measured touch current (mA) | See appended table 5.1 | -- |
| | Max. allowed touch current (mA) | See appended table 5.1 | -- |
| | Measured protective conductor current (mA) | | -- |
| | Max. allowed protective conductor current (mA) | | -- |
| 5.1.7 | Equipment with touch current exceeding 3.5 mA : | Not such equipment. | N/A |
| 5.1.7.1 | General | | N/A |
| 5.1.7.2 | Simultaneous multiple connections to the supply | | N/A |
| 5.1.8 | Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks | No TNV circuit connection. | N/A |
| 5.1.8.1 | Limitation of the touch current to a telecommunication network and a cable distribution system | | N/A |
| | Test voltage (V) | | -- |
| | Measured touch current (mA) | | -- |
| | Max. allowed touch current (mA) | | -- |
| 5.1.8.2 | Summation of touch currents from telecommunication networks..... | No TNV. | N/A |
| 5.2 | Electric strength | | P |
| 5.2.1 | General | (see appended table 5.2) | P |
| 5.2.2 | Test procedure | (see appended table 5.2) | P |
| 5.3 | Abnormal operating and fault conditions | | P |
| 5.3.1 | Protection against overload and abnormal operation | Output of Switching power supply short-circuit test.. | P |
| 5.3.2 | Motors | | N/A |
| 5.3.3 | Transformers | Results of the short-circuit tests see Annex C. | P |
| 5.3.4 | Functional insulation..... | Functional insulation complies with the requirements (a), (b), or (c). | P |
| 5.3.5 | Electromechanical components | No electromechanical component provided. | N/A |
| 5.3.6 | Audio amplifiers in information technology equipment | | N/A |
| 5.3.7 | Simulation of faults | | P |
| 5.3.8 | Unattended equipment | | N/A |



| | | | |
|---------|---|---|---|
| 5.3.9 | Compliance criteria for abnormal operating and fault conditions | - No fire, emission of molten metal or deformation was noted during the tests. Electric Strength tests performed after abnormal and fault tests. | P |
| 5.3.9.1 | During the tests | | P |
| 5.3.9.2 | After the tests | | P |

| | | | |
|---------|---|---|-----|
| 6 | CONNECTION TO TELECOMMUNICATION NETWORKS | | N/A |
| 6.1 | Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment | | N/A |
| 6.1.1 | Protection from hazardous voltages | | N/A |
| 6.1.2 | Separation of the telecommunication network from earth | | N/A |
| 6.1.2.1 | Requirements | | N/A |
| | Test voltage (V) | : | -- |
| | Current in the test circuit (mA) | : | -- |
| 6.1.2.2 | Exclusions..... | : | N/A |
| 6.2 | Protection of equipment users from overvoltages on telecommunication networks | | N/A |
| 6.2.1 | Separation requirements | | N/A |
| 6.2.2 | Electric strength test procedure | | N/A |
| 6.2.2.1 | Impulse test | | N/A |
| 6.2.2.2 | Steady-state test | | N/A |
| 6.2.2.3 | Compliance criteria | | N/A |
| 6.3 | Protection of the telecommunication wiring system from overheating | | N/A |
| | Max. output current (A)..... | : | -- |
| | Current limiting method..... | : | -- |

| | | | |
|-------|---|--|-----|
| 7 | CONNECTION TO CABLE DISTRIBUTION SYSTEMS | | N/A |
| 7.1 | Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment | | N/A |
| 7.2 | Protection of equipment users from overvoltages on the cable distribution system | | N/A |
| 7.3 | Protection of equipment users from overvoltages on the cable distribution system | | N/A |
| 7.4 | Insulation between primary circuits and cable distribution systems | | N/A |
| 7.4.1 | General | | N/A |
| 7.4.2 | Voltage surge test | | N/A |
| 7.4.3 | Impulse test | | N/A |



| | | | |
|-------|---|--|-----|
| A | ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE | | N/A |
| A.1 | Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2) | | N/A |
| A.1.1 | Samples.....: | | -- |
| | Wall thickness (mm).....: | | -- |
| A.1.2 | Conditioning of samples; temperature (°C).....: | | N/A |
| A.1.3 | Mounting of samples..... : | | N/A |
| A.1.4 | Test flame (see IEC 60695-11-3) | | N/A |
| | Flame A, B, C or D | | -- |
| A.1.5 | Test procedure | | N/A |
| A.1.6 | Compliance criteria | | N/A |
| | Sample 1 burning time (s)..... : | | -- |
| | Sample 2 burning time (s)..... : | | -- |
| | Sample 3 burning time (s)..... : | | -- |
| A.2 | Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4) <i>UL recognized material V-0 enclosure used.</i> | | N/A |
| A.2.1 | Samples, material.....: | | -- |
| | Wall thickness (mm).....: | | -- |
| A.2.2 | Conditioning of samples | | N/A |
| A.2.3 | Mounting of samples | | N/A |
| A.2.4 | Test flame (see IEC 60695-11-4) | | N/A |
| | Flame A, B or C | | -- |
| A.2.5 | Test procedure | | N/A |
| A.2.6 | Compliance criteria | | N/A |
| | Sample 1 burning time (s)..... : | | -- |
| | Sample 2 burning time (s)..... : | | -- |
| | Sample 3 burning time (s)..... : | | -- |
| A.2.7 | Alternative test acc. To IEC 60695-2-2, cl. 4 and 8 | | N/A |
| | Sample 1 burning time (s)..... : | | -- |
| | Sample 2 burning time (s)..... : | | -- |
| | Sample 3 burning time (s)..... : | | -- |
| A.3 | Hot flaming oil test (see 4.6.2) | | N/A |
| A.3.1 | Mounting of samples | | N/A |
| A.3.2 | Test procedure | | N/A |
| A.3.3 | Compliance criterion | | N/A |



| | | | |
|-------|--|---|-----|
| B | ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2) | | N/A |
| B.1 | General requirements | | N/A |
| | Position | : | -- |
| | Manufacturer | : | -- |
| | Type | : | -- |
| | Rated values | : | -- |
| B.2 | Test conditions | | N/A |
| B.3 | Maximum temperatures | | N/A |
| B.4 | Running overload test | | N/A |
| B.5 | Locked-rotor overload test | | N/A |
| | Test duration (days) | : | -- |
| | Electric strength test: test voltage (V) | : | -- |
| B.6 | Running overload test for d.c. motors in secondary circuits | | N/A |
| B.7 | Locked-rotor overload test for d.c. motors in secondary circuits | | N/A |
| B.7.1 | Test procedure | | N/A |
| B.7.2 | Alternative test procedure; test time (h)..... : | | N/A |
| B.7.3 | Electric strength test | | N/A |
| B.8 | Test for motors with capacitors | | N/A |
| B.9 | Test for three-phase motors | | N/A |
| B.10 | Test for series motors | | N/A |
| | Operating voltage (V) | : | -- |

| | | | |
|-----|---|-----------------------------|----|
| C | ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3) | | P |
| | Position | : | -- |
| | Manufacturer | : | -- |
| | Type | : | -- |
| | Rated values | : | -- |
| | Method of protection..... : | Protection by circuit | -- |
| C.1 | Overload test | | P |
| C.2 | Insulation | | P |
| | Protection from displacement of windings..... : | by insulation tape & Bobbin | P |

| | | | |
|-----|--|-------------|-----|
| D | ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS | | P |
| D.1 | Measuring instrument | Compliance. | P |
| D.2 | Alternative measuring instrument | | N/A |

| | | | |
|---|--|--|-----|
| E | ANNEX E, TEMPERATURE RISE OF A WINDING | | N/A |
|---|--|--|-----|



| | | |
|-------|---|-----|
| F | ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) | P |
| G | ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES | P |
| G.1 | Summary of the procedure for determining minimum clearances | P |
| G.2 | Determination of mains transient voltage (V)..... : 5V | P |
| G.2.1 | AC mains supply | P |
| G.2.2 | DC mains supply | N/A |
| G.3 | Determination of telecommunication network transient voltage (V)..... : | N/A |
| G.4 | Determination of required withstand voltage (V)..... : | P |
| G.5 | Measurement of transient levels (V)..... : | N/A |
| G.6 | Determination of minimum clearances..... : | P |
| H | ANNEX H, IONIZING RADIATION (see 4.3.13) | N/A |
| J | ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6) | N/A |
| | Metal used | -- |
| K | ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7) | N/A |
| K.1 | Making and breaking capacity | N/A |
| K.2 | Thermostat reliability; operating voltage (V)..... : | N/A |
| K.3 | Thermostat endurance test; operating voltage (V) : | N/A |
| K.4 | Temperature limiter endurance; operating voltage (V) : | N/A |
| K.5 | Thermal cut-out reliability | N/A |
| K.6 | Stability of operation | N/A |
| L | ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1) | N/A |
| L.1 | Typewriters | N/A |
| L.2 | Adding machines and cash registers | N/A |
| L.3 | Erasers | N/A |
| L.4 | Pencil sharpeners | N/A |
| L.5 | Duplicators and copy machines | N/A |
| L.6 | Motor-operated files | N/A |
| L.7 | Other business equipment | N/A |



| | | |
|---------|--|-----|
| M | ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1) | N/A |
| M.1 | Introduction | N/A |
| M.2 | Method A | N/A |
| M.3 | Method B | N/A |
| M.3.1 | Ringling signal | N/A |
| M.3.1.1 | Frequency (Hz) | -- |
| M.3.1.2 | Voltage (V) | -- |
| M.3.1.3 | Cadence; time (s), voltage (V) | -- |
| M.3.1.4 | Single fault current (mA)..... | -- |
| M.3.2 | Tripping device and monitoring voltage..... | N/A |
| M.3.2.1 | Conditions for use of a tripping device or a monitoring voltage | N/A |
| M.3.2.2 | Tripping device | N/A |
| M.3.2.3 | Monitoring voltage (V)..... | N/A |
| N | ANNEX N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5) | N/A |
| N.1 | ITU-T impulse test generators | N/A |
| N.2 | IEC 60065 impulse test generator | N/A |
| P | ANNEX P, NORMATIVE REFERENCES | N/A |
| Q | ANNEX Q, BIBLIOGRAPHY | P |
| R | ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES | N/A |
| R.1 | Minimum separation distances for unpopulated coated printed boards (see 2.10.6) | N/A |
| R.2 | Reduced clearances (see 2.10.3) | N/A |
| S | ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3) | P |
| S.1 | Test equipment | P |
| S.2 | Test procedure | P |
| S.3 | Examples of waveforms during impulse testing | P |
| T | ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2) | P |
| U | ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4) | P |



| | | | |
|-----|--|-----------------------------------|-----|
| V | ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1) | | P |
| V.1 | Introduction | Equipment is for TN power system. | P |
| V.2 | TN power distribution systems | Considered. | P |
| V.3 | TT power systems | | N/A |
| V.4 | IT power systems | | N/A |

| | | | |
|-------|--|--|---|
| W | ANNEX W, SUMMATION OF TOUCH CURRENTS | | P |
| W.1 | Touch current from electronic circuits | | P |
| W.1.2 | Earthed circuits | | P |
| W.2 | Interconnection of several equipments | | P |
| W.2.1 | Isolation | | P |
| W.2.2 | Common return, isolated from earth | | P |
| W.2.3 | Common return, connected to protective earth | | P |

| | | | |
|-----|---|--|---|
| X | ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1) | | P |
| X.1 | Determination of maximum input current | | P |
| X.2 | Overload test procedure | | P |

| | | | |
|-----|---|--|-----|
| Y | ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3) | | N/A |
| Y.1 | Test apparatus | | N/A |
| Y.2 | Mounting of test samples | | N/A |
| Y.3 | Carbon-arc light-exposure apparatus | | N/A |
| Y.4 | Xenon-arc light exposure apparatus | | N/A |

| | | | |
|---|---|--|---|
| Z | ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2) | | P |
|---|---|--|---|

| | | | |
|----|---------------------------------------|--|-----|
| AA | ANNEX AA, MANDREL TEST (see 2.10.5.8) | | N/A |
|----|---------------------------------------|--|-----|

| | | | |
|----|---|--|-----|
| BB | ANNEX BB, CHANGES IN THE SECOND EDITION | | N/A |
|----|---|--|-----|

| | | | |
|------|--|--|-----|
| CC | ANNEX CC, EVALUATION OF INTEGRATED CIRCUIT (IC) CURRENT LIMITERS | | N/A |
| CC.1 | General | | N/A |
| CC.2 | Test program 1 | | N/A |
| CC.3 | Test program 2 | | N/A |
| CC.4 | Test program 3 | | N/A |
| CC.5 | Compliance..... | | N/A |



| | | | |
|------|---|--|-----|
| DD | ANNEX DD, REQUIREMENTS FOR THE MOUNTING MEANS OF RACK-MOUNTED EQUIPMENT | | N/A |
| DD.1 | General | | N/A |
| DD.2 | Mechanical strength, variable N | | N/A |
| DD.3 | Mechanical strength test ,250N, including end stops.... | | N/A |
| DD.4 | Compliance..... : | | N/A |

| | | | |
|------|---|--|-----|
| EE | ANNEX EE, HOUSEHOLD AND HOME/OFFICE DOCUMENT/MEDIA SHREDDERS | | N/A |
| EE.1 | General | | N/A |
| EE.2 | Marking and instructions | | N/A |
| | Using of markings and symbols..... | | N/A |
| | Information of user instructions maintenance and/or servicing instructions..... | | N/A |
| EE.3 | Inadvertent reactivation test..... | | N/A |
| EE.4 | Disconnection of power to hazards moving pars | | N/A |
| | Using of markings and symbols..... | | N/A |
| EE.5 | Protection against hazards moving pars | | N/A |
| | Test with test finger(Figure 2A) | | N/A |
| | Test with wedge probe (Figure EE1 and EE2) | | N/A |

| | | | |
|-------------------|--|---------------------------|--------------------------|
| 4.5.5 | TABLE: Ball pressure test of thermoplastic parts | | P |
| | allowed impression diameter (mm) : | less than or equal to 2.0 | --- |
| Part: | | test temperature (°C) | impression diameter (mm) |
| Bobbin | | 125 | 0.4 |
| Enclosure of plug | | 125 | 0.8 |

| | | | | |
|----------------------------|----------------------------------|------------|-----------------------|---|
| 5.1 | TABLE: touch current measurement | | | P |
| Measured between | Measured (mA) | Limit (mA) | Comments/conditions | |
| Output terminal | 0.19 | 0.25 | “e” – closed; P1 – N; | |
| Output terminal | 0.20 | 0.25 | “e” –closed; P1 – R; | |
| Enclosure | 0.011 | 0.25 | “e” –closed; P1 – N; | |
| Enclosure | 0.024 | 0.25 | “e” –closed; P1 – R; | |
| supplementary information: | | | | |
| -- | | | | |

| | | | |
|-------------------------------|--------------------------------|------------------|--------------------|
| 5.2 | Table: Electric Strength Tests | | P |
| test voltage applied between: | | test voltage (V) | breakdown Yes / No |
| Input to Enclosure | | 3000Vac | No |

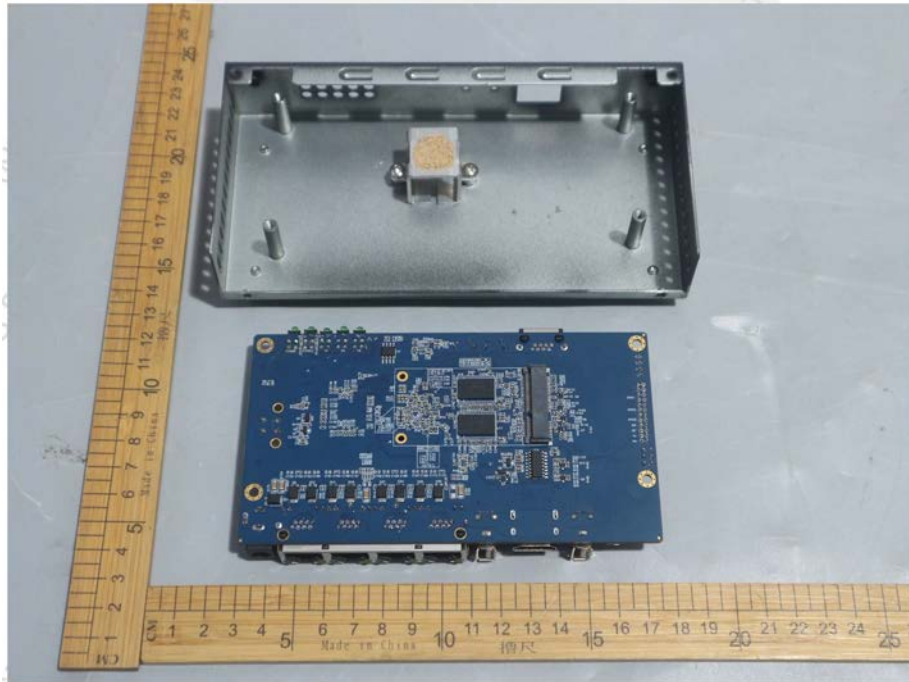


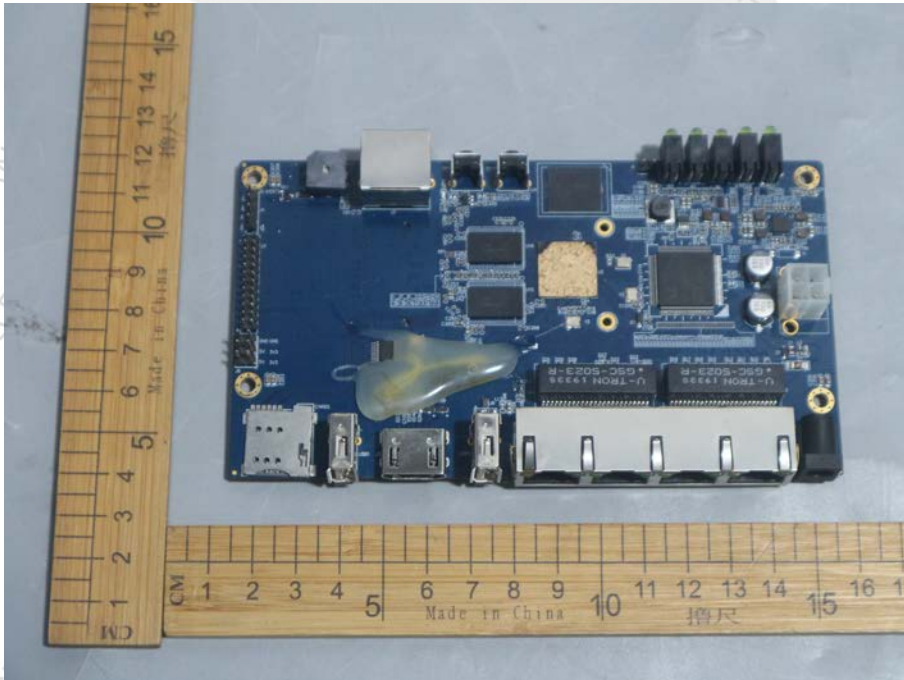
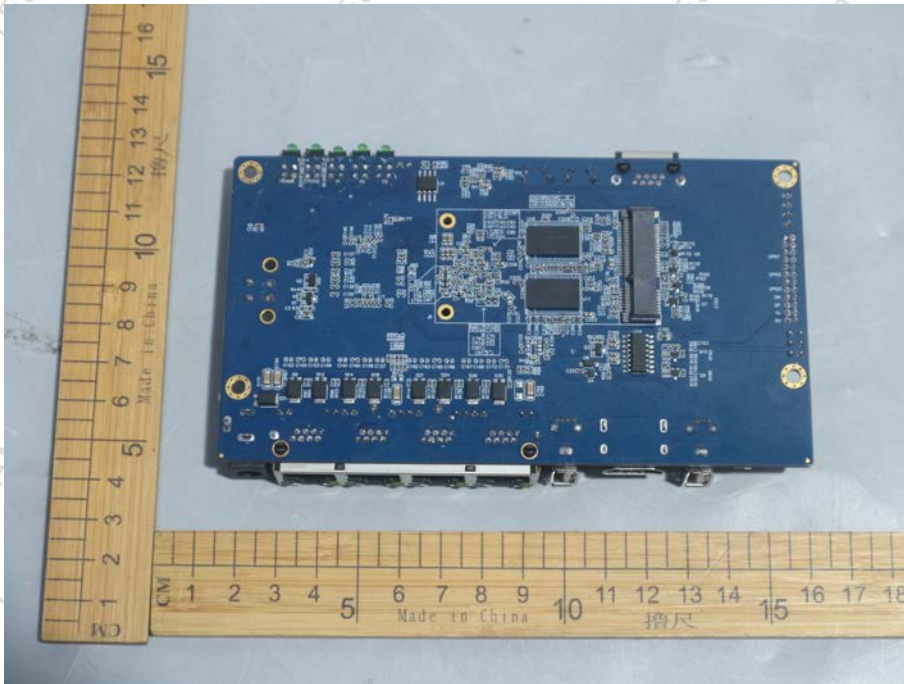
| | | |
|-------------------------------------|---------|----|
| Input to Output | 3000Vac | No |
| Primary winding / Secondary winding | 3000Vac | No |
| Secondary winding / Core | 3000Vac | No |
| Note: -- | | |

Appendix for product photo









***** END OF REPORT *****