

Compliance Engineering Ireland Ltd

CLONROSS, DUNSHAUGHLIN, CO. MEATH, IRELAND Tel: +353 1 8017000 Fax: +353 1 8256733



Confidential Report

| Client: Schrader Electronics Ltd. | Test of: AG2FW4 |
|-----------------------------------|--|
| 11 Technology Park | |
| Belfast Road | |
| Antrim | |
| Northern Ireland | Tested to: |
| BT411QS | EN 62368-1: 2014 Audio/video information and |
| | communication technology equipment - |
| | Safety part 1: Safety requirements |
| Attention: Ms. Zoe Gourley | |

| COPIES TO: Files | |
|-------------------------------|-------------------------------|
| REPORT REF : 20S8662-1 | TESTED BY: N. Duignan |
| DATE RECEIVED: 03 March 2020 | REPORT BY: N. Duignan |
| ISSUE DATE: 28 April 2020 | APPROVED SIGNATORY: J McAuley |
| | JOB TITLE: Technical Manager |
| | SIGNATURE: John the Onley |
| | (|

TEST REPORT IEC 62368-1

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

Report Number 20S8662-1

Date of issue...... 28 April 2020

Total number of pages 51

Applicant's name...... Schrader Electronics Ltd

Address 11 Technology Park, Belfast Road, Antrim, Northern Ireland, BT411QS

Test specification:

Standard: IEC 62368-1:2014 (Second Edition)

Test procedure: CB Scheme

Non-standard test method.....: N/A

Test Report Form No.....: IEC62368_1

Test Report Form(s) Originator: UL(US)

Master TRF.....: 2015-06

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General disclaimer:

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

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| Test Item description: | Tyre Pressure Monitor and Transmitter |
|------------------------|---------------------------------------|
| Trade Mark: | SCHRADER |
| Manufacturer: | Schrader Electronics Ltd. |
| Model/Type reference: | AG2FW4 |
| Rating: | 3 Vdc |

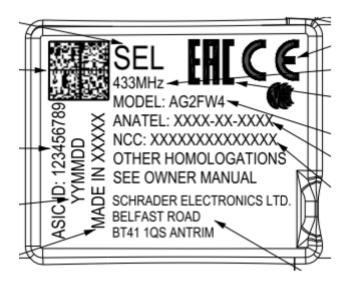
| Testing | procedure and testing location: | | |
|---------|--|---|-----------------|
| | Testing Laboratory: | Compliance Engineering Ireland | |
| Testing | location/ address | Clonross, Dunshaughlin, Co Meath, Ireland | |
| - | Tested by (name, function, signature): | Nigel Duignan | beget Bregan |
| , | Approved by (name, function, signature) : | John McAuley | () A () A |
| | | | John the Centry |
| | | | |
| | Testing procedure: CTF Stage 1 | | |
| Testing | location/ address: | | |
| - | Tested by (name, function, signature): | | |
| | Approved by (name, function, signature): | | |
| | | | |
| | Testing procedure: CTF Stage 2 | | |
| Testing | location/ address: | | |
| - | Tested by (name, function, signature): | | |
| , | Witnessed by (name, function, signature) | | |
| | | | |
| , | Approved by (name, function, signature): | | |
| | | | |
| Ш | Testing procedure: CTF Stage 3 | | |
| | Testing procedure: CTF Stage 4 | | |
| Testing | location/ address: | | |
| - | Tested by (name, function, signature): | | |
| , | Approved by (name, function, signature): | | |
| | Supervised by (name, function, signature): | | |

| List of Attachments (including a total number of pages in each attachment): | | |
|--|-------------------|--|
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| | | |
| | | |
| Summary of testing: | | |
| Testing to EN 62368-1: 2014 | | |
| The ACCENNA was found to comply with the steed dead | | |
| The AG2FW4 was found to comply with the standard. | | |
| Tests performed (name of test and test clause): | Testing location: | |
| rests performed (name or test and test clause). | resting location. | |
| Applicable tests of EN 62368-1:2014 | CEI Ltd | |
| | Clonross | |
| | Dunshuaghlin | |
| | Co. Meath | |
| | | |
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| | | |
| | | |
| Summary of compliance with National Differences | : :: | |
| List of countries addressed | | |
| Europe | | |
| | | |
| | | |
| ∑ The product fulfile the requirements of EN 62269 4:2044 (incert standard number and adition ad | | |
| \square The product fulfils the requirements of EN 62368-1:2014 (insert standard number and edition and delete the text in parenthesis or delete the whole sentence if not applicable) | | |

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.

AG2FW4



| TEST ITEM PARTICULARS: | |
|--|---|
| Classification of use by: | ☑ Ordinary person☐ Instructed person☐ Skilled person☐ Children likely to be present |
| Supply Connection: | ☐ AC Mains ☐ DC Mains ☐ External Circuit - not Mains connected - ☐ ES1 ☐ ES2 ☐ ES3 |
| Supply % Tolerance: | ☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None |
| Supply Connection – Type: | □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ mating connector □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector |
| Considered current rating of protective device as part of building or equipment installation | A; Installation location: ☐ building; ☑ equipment |
| Equipment mobility:: | □ movable □ hand-held □ transportable □ stationary □ for building-in □ direct plug- in □ rack-mounting □ wall-mounted |
| Over voltage category (OVC): | ☑ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: |
| Class of equipment: | ☐ Class I ☐ Class II ☐ Class III |
| Access location: | ☐ restricted access location ☐ N/A |
| Pollution degree (PD): | ☐ PD 1 |
| Manufacturer's specified maximum operating ambient.: | 120 °C |
| IP protection class | ☑ IPX0 ☐ IP |
| Power Systems | ☑ TN ☐ TT ☐ IT V _{L-L} |
| Altitude during operation (m): | ☑ 2000 m or less ☐ m |
| Altitude of test laboratory (m): | ☐ 2000 m or less ☐ 63 m |
| Mass of equipment (kg): | ☑ 0.2 kg |
| | |
| 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: | 03 March 2020 | |
| Date (s) of performance of tests: | 03 March 2020 – 28 April 2020 | |
| | | |
| GENERAL REMARKS: | | |
| "(See Enclosure #)" refers to additional information "(See appended table)" refers to a table appended to | | |
| Throughout this report a \square comma / \boxtimes point is use | d as the decimal separator. | |
| This Test Report covers test results for IEC 62368-1: 20 | 14 (Second Edition). | |
| This assessment was made with the data provided outlining that the equipment was previously assessed and met the requirements of EN 60950-1. The details of this assessment are available in report "Test-Report-Safety -1506507278" (CEI report 17S6909-1) | | |
| Manufacturer's Declaration per sub-clause 4.2.5 of IE | CEE 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 ☑ Not applicable | |
| When differences exist; they shall be identified in the | General product information section. | |
| Name and address of factory (ies):: | | |
| GENERAL PRODUCT INFORMATION: | | |
| Product Description - Tyre Pressure Monitor and Tran | nsmitter | |
| Model Differences - N/A | | |
| Additional application considerations – (Considerations) | ions used to test a component or sub-assembly) – | |

ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.)

(Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.

Electrically-caused injury (Clause 5):

(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source

classification)

Example: +5 V dc input ES1

| Source of electrical energy | Corresponding classification (ES) |
|-----------------------------|-----------------------------------|
| Battery and PCB | ES1 |
| | |

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification)

Example: Battery pack (maximum 85 watts): PS2

| Source of power or PIS | Corresponding classification (PS) |
|------------------------|-----------------------------------|
| Battery and PCB | PS1 |
| | |

Injury caused by hazardous substances (Clause 7)

(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as

part of the component evaluation.)

Example: Liquid in filled component Glycol

| Source of hazardous substances | Corresponding chemical |
|--------------------------------|------------------------|
| Battery | Lithium |
| | |

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit MS2

| Source of kinetic/mechanical energy | Corresponding classification (MS) |
|-------------------------------------|-----------------------------------|
| | |
| | |

Thermal burn injury (Clause 9)

(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.)

Example: Hand-held scanner – thermoplastic enclosure

| Source of thermal energy | Corresponding classification (TS) |
|--------------------------|-----------------------------------|
| Battery and PCB | TS1 |
| | |

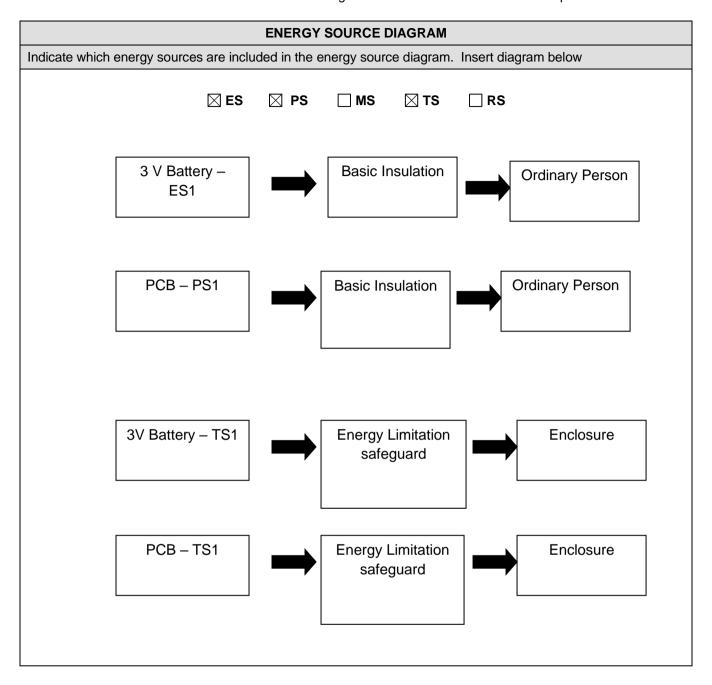
Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.)

Example: DVD – Class 1 Laser Product

RS1

| Type of radiation | Corresponding classification (RS) |
|-------------------|-----------------------------------|
| | |
| | |



| OVERVIEW OF EMPLOYED S | AFEGUARDS | | | |
|------------------------------|-------------------------------------|----------------------|---------------|------------------------|
| Clause | Possible Hazard | | | |
| 5.1 | Electrically-caused injury | 1 | | |
| Body Part | Energy Source | | Safeguards | |
| (e.g. Ordinary) | (ES3: Primary Filter circuit) | Basic | Supplementary | Reinforced (Enclosure) |
| Hand/Finger | ES1: Battery | Enclosure | | |
| Hand/Finger | ES1: PCB | Enclosure | | |
| 6.1 | Electrically-caused fire | | | |
| Material part | Energy Source | | Safeguards | |
| (e.g. mouse enclosure) | (PS2: 100 Watt circuit) | Basic | Supplementary | Reinforced |
| Enclosure | PS1 | Energy limitation | | |
| | | | | |
| 7.1 | Injury caused by hazardo | dous substances | | |
| Body Part | Energy Source (hazardous material) | Safeguards | | |
| (e.g., skilled) | | Basic | Supplementary | Reinforced |
| | | | | |
| | | | | |
| 8.1 | Mechanically-caused inju | ury | | |
| Body Part (e.g. Ordinary) | Energy Source (MS3:High Pressure | Safeguards | | |
| (e.g. Ordinary) | Lamp) | Basic | Supplementary | Reinforced (Enclosure) |
| | | N/A | | |
| | | | | |
| 9.1 | Thermal Burn | | | |
| Body Part | Energy Source | | Safeguards | |
| (e.g., Ordinary) | (TS2) | Basic | Supplementary | Reinforced |
| | | | | |
| | | | | |
| 10.1 | Radiation | | | |
| Body Part | Energy Source | | Safeguards | |
| (e.g., Ordinary) | (Output from audio port) | Basic | Supplementary | Reinforced |
| | | | | |
| | | | | |
| Supplementary Information: | | | | |

Supplementary Information:

- (1) See attached energy source diagram for additional details.
- (2) "N" Normal Condition; "A" Abnormal Condition; "S" Single Fault

| IEC 62368-1 (ed.2) | | | | |
|--------------------|---|--|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| 4 | GENERAL REQUIREMENTS | | Р | |
| 4.1.1 | Acceptance of materials, components and subassemblies | | Р | |
| 4.1.2 | Use of components | | Р | |
| 4.1.3 | Equipment design and construction | | Р | |
| 4.1.15 | Markings and instructions: | (See Annex F) | _ | |
| 4.4.4 | Safeguard robustness | | Р | |
| 4.4.4.2 | Steady force tests: | (See Annex T.4, T.5) | | |
| 4.4.4.3 | Drop tests: | (See Annex T.7) | _ | |
| 4.4.4.4 | Impact tests: | (See Annex T.6) | _ | |
| 4.4.4.5 | Internal accessible safeguard enclosure and barrier tests: | (See Annex T.3) | _ | |
| 4.4.4.6 | Glass Impact tests: | (See Annex T.9, Annex U) | | |
| 4.4.4.7 | Thermoplastic material tests: | (See Annex T.8) | _ | |
| 4.4.4.8 | Air comprising a safeguard: | (See Annex T) | _ | |
| 4.4.4.9 | Accessibility and safeguard effectiveness | | Р | |
| 4.5 | Explosion | | Р | |
| 4.6 | Fixing of conductors | | Р | |
| 4.6.1 | Fix conductors not to defeat a safeguard | | Р | |
| 4.6.2 | 10 N force test applied to: | - | _ | |
| 4.7 | Equipment for direct insertion into mains socket – outlets | | N/A | |
| 4.7.2 | Mains plug part complies with the relevant standard: | - | _ | |
| 4.7.3 | Torque (Nm): | - | _ | |
| 4.8 | Products containing coin/button cell batteries | | N/A | |
| 4.8.2 | Instructional safeguard | | N/A | |
| 4.8.3 | Battery Compartment Construction | Battery not accessible via door or removable cover | N/A | |
| | Means to reduce the possibility of children removing the battery: | | _ | |
| 4.8.4 | Battery Compartment Mechanical Tests: | (See Table 4.8.4) Equipment not likely to be accessible to children after installation | _ | |
| 4.8.5 | Battery Accessibility | | N/A | |
| 4.9 | Likelihood of fire or shock due to entry of conductive object: | (See Annex P) | _ | |

| IEC 62368-1 (ed.2) | | | | |
|--------------------|--------------------|--|-----------------|---------|
| Clause | Requirement + Test | | Result - Remark | Verdict |

| 5 | ELECTRICALLY-CAUSED INJURY | | Р |
|------------|---|--|-----|
| 5.2.1 | Electrical energy source classifications: | (See appended table 5.2) | _ |
| 5.2.2 | ES1, ES2 and ES3 limits | ES1 | Р |
| 5.2.2.2 | Steady-state voltage and current: | See appended table 5.2) | _ |
| 5.2.2.3 | Capacitance limits: | (See appended table 5.2) | _ |
| 5.2.2.4 | Single pulse limits: | (See appended table 5.2) | _ |
| 5.2.2.5 | Limits for repetitive pulses: | (See appended table 5.2) | _ |
| 5.2.2.6 | Ringing signals: | (See Annex H) | _ |
| 5.2.2.7 | Audio signals: | (See Clause E.1) | _ |
| 5.3 | Protection against electrical energy sources | | Р |
| 5.3.1 | General Requirements for accessible parts to ordinary, instructed and skilled persons | No safeguards required for ES1 but energy source contained within sealed plastic enclosure | Р |
| 5.3.2.1 | Accessibility to electrical energy sources and safeguards | | Р |
| 5.3.2.2 | Contact requirements | No ES3 voltages | N/A |
| | a) Test with test probe from Annex V: | | — |
| | b) Electric strength test potential (V): | | _ |
| | c) Air gap (mm): | | _ |
| 5.3.2.4 | Terminals for connecting stripped wire | | N/A |
| 5.4 | Insulation materials and requirements | | Р |
| 5.4.1.2 | Properties of insulating material | | Р |
| 5.4.1.3 | Humidity conditioning: | (See sub-clause 5.4.8) | _ |
| 5.4.1.4 | Maximum operating temperature for insulating materials: | (See appended table 5.4.1.4) | _ |
| 5.4.1.5 | Pollution degree: | 2 | _ |
| 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 | | 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 | | Р |
| 5.4.1.9 | Insulating surfaces | | Р |
| 5.4.1.10 | Thermoplastic parts on which conductive metallic parts are directly mounted | | N/A |
| 5.4.1.10.2 | Vicat softening temperature: | (See appended table 5.4.1.10.2) | _ |
| 5.4.1.10.3 | Ball pressure: | (See appended table 5.4.1.10.3) | _ |
| 5.4.2 | Clearances | | Р |

| IEC 62368-1 (ed.2) | | | | |
|--------------------|---|------------------------------|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| 5.4.2.2 | Determining clearance using peak working voltage | (See appended table 5.4.2.2) | Р | |
| 5.4.2.3 | Determining clearance using required withstand voltage: | (See appended table 5.4.2.3) | _ | |
| | a) a.c. mains transient voltage: | | | |
| | b) d.c. mains transient voltage: | | | |
| | c) external circuit transient voltage: | | | |
| | d) transient voltage determined by measurement | | _ | |
| 5.4.2.4 | Determining the adequacy of a clearance using an electric strength test | (See appended table 5.4.2.4) | N/A | |
| 5.4.2.5 | Multiplication factors for clearances and test voltages: | | _ | |
| 5.4.3 | Creepage distances: | (See appended table 5.4.3) | _ | |
| 5.4.3.1 | General | | Р | |
| 5.4.3.3 | Material Group: | | | |
| 5.4.4 | Solid insulation | | Р | |
| 5.4.4.2 | Minimum distance through insulation: | (See appended table 5.4.4.2) | Р | |
| 5.4.4.3 | Insulation compound forming solid insulation | | N/A | |
| 5.4.4.4 | Solid insulation in semiconductor devices | | N/A | |
| 5.4.4.5 | 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 | |
| | Number of layers (pcs): | | _ | |
| 5.4.4.6.3 | Non-separable thin sheet material | | N/A | |
| 5.4.4.6.4 | Standard test procedure for non-separable thin sheet material | (See appended Table 5.4.9) | _ | |
| 5.4.4.6.5 | Mandrel test | | N/A | |
| 5.4.4.7 | Solid insulation in wound components | | N/A | |
| 5.4.4.9 | Solid insulation at frequencies >30 kHz: | (See appended Table 5.4.4.9) | | |
| 5.4.5 | Antenna terminal insulation | | N/A | |
| 5.4.5.1 | General | | N/A | |
| 5.4.5.2 | Voltage surge test | | N/A | |
| | Insulation resistance (MΩ): | | _ | |
| 5.4.6 | Insulation of internal wire as part of supplementary safeguard: | (See appended table 5.4.4.2) | _ | |
| 5.4.7 | Tests for semiconductor components and for cemented joints | | N/A | |
| 5.4.8 | Humidity conditioning | | N/A | |
| | Relative humidity (%): | | | |

| IEC 62368-1 (ed.2) | | | |
|--------------------|--|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | Temperature (°C): | | |
| | Duration (h): | | _ |
| 5.4.9 | Electric strength test: | (See appended table 5.4.9) | _ |
| 5.4.9.1 | Test procedure for a solid insulation type test | | N/A |
| 5.4.9.2 | Test procedure for routine tests | | N/A |
| 5.4.10 | Protection against transient voltages between external circuit | | N/A |
| 5.4.10.1 | Parts and circuits separated from external circuits | No such parts (See appended table 5.4.9) | 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: | (See appended table 5.4.9) | _ |
| 5.4.10.2.3 | Steady-state test: | (See appended table 5.4.9) | _ |
| 5.4.11 | Insulation between external circuits and earthed circuitry: | (See appended table 5.4.9) | _ |
| 5.4.11.1 | Exceptions to separation between external circuits and earth | | N/A |
| 5.4.11.2 | Requirements | | 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 ΔU_{sa} : | | _ |
| | $U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$: | | _ |
| 5.5 | Components as safeguards | | N/A |
| 5.5.1 | General | | 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: | (See appended table 5.5.2.2) | _ |
| 5.5.3 | Transformers | (See Annex G.5.3) | N/A |
| 5.5.4 | Optocouplers | (See sub-clause 5.4 or Annex G.12) | N/A |
| 5.5.5 | Relays | (See Annex G.2) | N/A |
| 5.5.6 | Resistors | (See Annex G.10) Bridging functional insulation only | N/A |
| 5.5.7 | SPD's | (See Annex G.8) | N/A |
| 5.5.7.1 | Use of an SPD connected to reliable earthing | | N/A |
| 5.5.7.2 | Use of an SPD between mains and protective earth | | N/A |

| IEC 62368-1 (ed.2) | | | | |
|--------------------|---|------------------------------------|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| 5.5.8 | Insulation between the mains and external circuit consisting of a coaxial cable: | (See Annex G.10.3) | _ | |
| 5.6 | Protective conductor | | N/A | |
| 5.6.2 | Requirement for protective conductors | | N/A | |
| 5.6.2.1 | General requirements | | N/A | |
| 5.6.2.2 | Colour of insulation | | N/A | |
| 5.6.3 | Requirement for protective earthing conductors | | N/A | |
| | Protective earthing conductor size (mm²): | | _ | |
| 5.6.4 | Requirement for protective bonding conductors | | N/A | |
| 5.6.4.1 | Protective bonding conductors | | N/A | |
| | Protective bonding conductor size (mm²): | | | |
| | Protective current rating (A): | | _ | |
| 5.6.4.3 | Current limiting and overcurrent protective devices | | N/A | |
| 5.6.5 | Terminals for protective conductors | | N/A | |
| 5.6.5.1 | Requirement | | N/A | |
| | Conductor size (mm²), nominal thread diameter (mm): | | _ | |
| 5.6.5.2 | Corrosion | | N/A | |
| 5.6.6 | Resistance of the protective system | | N/A | |
| 5.6.6.1 | Requirements | | N/A | |
| 5.6.6.2 | Test Method Resistance (Ω): | (See appended table 5.6.6.2) | _ | |
| 5.6.7 | Reliable earthing | | N/A | |
| 5.7 | Prospective touch voltage, touch current and prote | ective conductor current | Р | |
| 5.7.2 | Measuring devices and networks | | Р | |
| 5.7.2.1 | Measurement of touch current: | 0 mA (See appended table 5.7.4) | _ | |
| 5.7.2.2 | Measurement of prospective touch voltage | | Р | |
| 5.7.3 | Equipment set-up, supply connections and earth connections | | Р | |
| | System of interconnected equipment (separate connections/single connection): | | _ | |
| | Multiple connections to mains (one connection at a time/simultaneous connections) | | _ | |
| 5.7.4 | Earthed conductive accessible parts | (See appended Table 5.7.4) | N/A | |
| 5.7.5 | Protective conductor current | | N/A | |
| | Supply Voltage (V) | | _ | |
| | Measured current (mA) | | _ | |
| | Instructional Safeguard: | (See F.4 and F.5) | _ | |

| | • | • | | |
|--------------------|--|--------------------------------|---------|--|
| IEC 62368-1 (ed.2) | | | | |
| Clause | Requirement + Test | Result - Remark | Verdict | |
| 5.7.6 | Prospective touch voltage and touch current due to external circuits | No external circuits | N/A | |
| 5.7.6.1 | Touch current from coaxial cables | Not connected to such circuits | N/A | |
| 5.7.6.2 | Prospective touch voltage and touch current from external circuits | | N/A | |
| 5.7.7 | Summation of touch currents from external circuits | | N/A | |
| | a) Equipment with earthed external circuits Measured current (mA): | | _ | |
| | b) Equipment whose external circuits are not referenced to earth. Measured current (mA): | | _ | |

| 6 | ELECTRICALLY- CAUSED FIRE | | Р |
|-----------|--|---|-----|
| 6.2 | Classification of power sources (PS) and potential ig | gnition sources (PIS) | Р |
| 6.2.2 | Power source circuit classifications | | Р |
| 6.2.2.1 | General | | Р |
| 6.2.2.2 | Power measurement for worst-case load fault : | (See appended table 6.2.2) | _ |
| 6.2.2.3 | Power measurement for worst-case power source fault: | (See appended table 6.2.2) | _ |
| 6.2.2.4 | PS1: | (See appended table 6.2.2) | |
| 6.2.2.5 | PS2: | (See appended table 6.2.2) | _ |
| 6.2.2.6 | PS3: | (See appended table 6.2.2) | _ |
| 6.2.3 | Classification of potential ignition sources | PS1 | Р |
| 6.2.3.1 | Arcing PIS: | (See appended table 6.2.3.1) | _ |
| 6.2.3.2 | Resistive PIS: | (See appended table 6.2.3.2) | |
| 6.3 | Safeguards against fire under normal operating and | abnormal operating conditions | Р |
| 6.3.1 (a) | No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials | (See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6) | |
| 6.3.1 (b) | Combustible materials outside fire enclosure | | Р |
| 6.4 | Safeguards against fire under single fault conditions | | Р |
| 6.4.1 | Safeguard Method | Likelihood of ignition reduced | Р |
| 6.4.2 | Reduction of the likelihood of ignition under single fault conditions in PS1 circuits | PS1 not considered to contain enough energy to result in materials reaching ignition temperatures | Р |
| 6.4.3 | Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits | No such circuits | N/A |
| 6.4.3.1 | General | | N/A |
| 6.4.3.2 | Supplementary Safeguards | | N/A |
| | Special conditions if conductors on printed boards are opened or peeled | | N/A |
| 6.4.3.3 | Single Fault Conditions :: | (See appended table 6.4.3) | _ |

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| Clause | Requirement + Test | Result - Remark | Verdict | |
| | Special conditions for temperature limited by fuse | | N/A | |
| 6.4.4 | Control of fire spread in PS1 circuits | No supplementary safeguards required for PS1 | Р | |
| 6.4.5 | Control of fire spread in PS2 circuits | | N/A | |
| 6.4.5.2 | Supplementary safeguards: | (See appended tables 4.1.2 and Annex G) | _ | |
| 6.4.6 | Control of fire spread in PS3 circuit | | N/A | |
| 6.4.7 | Separation of combustible materials from a PIS | No arcing or resistive PIS considered to exist for PS1 | N/A | |
| 6.4.7.1 | General: | (See tables 6.2.3.1 and 6.2.3.2) | _ | |
| 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 | | N/A | |
| 6.4.8.1 | Fire enclosure and fire barrier material properties | | N/A | |
| 6.4.8.2.1 | Requirements for a fire barrier | | N/A | |
| 6.4.8.2.2 | Requirements for a fire enclosure | | N/A | |
| 6.4.8.3 | Constructional requirements for a fire enclosure and a fire barrier | | N/A | |
| 6.4.8.3.1 | Fire enclosure and fire barrier openings | | N/A | |
| 6.4.8.3.2 | Fire barrier dimensions | | N/A | |
| 6.4.8.3.3 | Top Openings in Fire Enclosure: dimensions (mm) | | — | |
| | Needle Flame test | | N/A | |
| 6.4.8.3.4 | Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm): | | _ | |
| | Flammability tests for the bottom of a fire enclosure: | | _ | |
| 6.4.8.3.5 | Integrity of the fire enclosure, condition met: a), b) or c): | | _ | |
| 6.4.8.4 | Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating: | | _ | |
| 6.5 | Internal and external wiring | | N/A | |
| 6.5.1 | Requirements | No PS2 or PS3 circuits | N/A | |
| 6.5.2 | Cross-sectional area (mm²): | | _ | |
| 6.5.3 | Requirements for interconnection to building wiring | (See Annex Q.) | _ | |
| 6.6 | Safeguards against fire due to connection to additional equipment | | N/A | |
| | External port limited to PS2 or complies with Clause Q.1 | | N/A | |

N/A

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| Clause | Requirement + Test | Result - Remark | Verdict | | |
| | | | 1 | | |
| 7 | INJURY CAUSED BY HAZARDOUS SUBSTANCES | | Р | | |
| 7.2 | Reduction of exposure to hazardous substances | No hazardous substances identified | N/A | | |
| 7.3 | Ozone exposure | | N/A | | |
| 7.4 | Use of personal safeguards (PPE) | | N/A | | |
| | Personal safeguards and instructions | | _ | | |

(See Annex M)

Use of instructional safeguards and instructions

Instructional safeguard (ISO 7010)

Batteries)

| 8 | MECHANICALLY-CAUSED INJURY | | Р |
|-----------|---|-------------------------------------|-----|
| 8.1 | General | | N/A |
| 8.2 | Mechanical energy source classifications | | N/A |
| 8.3 | Safeguards against mechanical energy sources | | N/A |
| 8.4 | Safeguards against parts with sharp edges and corners | | N/A |
| 8.4.1 | Safeguards | | N/A |
| 8.5 | Safeguards against moving parts | No moving parts | N/A |
| 8.5.1 | MS2 or MS3 part required to be accessible for the function of the equipment | | N/A |
| 8.5.2 | Instructional Safeguard: | | _ |
| 8.5.4 | Special categories of equipment comprising moving parts | | N/A |
| 8.5.4.1 | Large data storage equipment | | N/A |
| 8.5.4.2 | Equipment having electromechanical device for destruction of media | | N/A |
| 8.5.4.2.1 | Safeguards and Safety Interlocks | (See Annex F.4 and Annex K) | _ |
| 8.5.4.2.2 | Instructional safeguards against moving parts | | N/A |
| | Instructional Safeguard | | _ |
| 8.5.4.2.3 | Disconnection from the supply | No directly connected to the supply | N/A |
| 8.5.4.2.4 | Probe type and force (N) | | _ |
| 8.5.5 | High Pressure Lamps | | N/A |
| 8.5.5.1 | Energy Source Classification | | N/A |
| 8.5.5.2 | High Pressure Lamp Explosion Test | (See appended table 8.5.5.2) | _ |
| 8.6 | Stability | Equipment intended to be built in | N/A |
| 8.6.1 | Product classification | | N/A |
| | Instructional Safeguard: | | _ |
| 8.6.2 | Static stability | | N/A |
| 8.6.2.2 | Static stability test | Equipment intended to be built in | |

7.5

7.6

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|--------------------|---|------------------------------------|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| | Applied Force | | | |
| 8.6.2.3 | Downward Force Test | Equipment intended to be built in | N/A | |
| 8.6.3 | Relocation stability test | | N/A | |
| | Unit configuration during 10° tilt: | | _ | |
| 8.6.4 | Glass slide test | Equipment intended for building in | N/A | |
| 8.6.5 | Horizontal force test (Applied Force): | | _ | |
| | Position of feet or movable parts: | | _ | |
| 8.7 | Equipment mounted to wall or ceiling | | N/A | |
| 8.7.1 | Mounting Means (Length of screws (mm) and mounting surface) | | _ | |
| 8.7.2 | Direction and applied force: | | _ | |
| 8.8 | Handles strength | | N/A | |
| 8.8.1 | Classification | | N/A | |
| 8.8.2 | Applied Force | | _ | |
| 8.9 | Wheels or casters attachment requirements | | N/A | |
| 8.9.1 | Classification | | N/A | |
| 8.9.2 | Applied force | | _ | |
| 8.10 | Carts, stands and similar carriers | | N/A | |
| 8.10.1 | General | | N/A | |
| 8.10.2 | Marking and instructions | | N/A | |
| | Instructional Safeguard: | | _ | |
| 8.10.3 | Cart, stand or carrier loading test and compliance | | N/A | |
| | Applied force | | _ | |
| 8.10.4 | Cart, stand or carrier impact test | | N/A | |
| 8.10.5 | Mechanical stability | | N/A | |
| | Applied horizontal force (N) | | _ | |
| 8.10.6 | Thermoplastic temperature stability (°C) | | _ | |
| 8.11 | Mounting means for rack mounted equipment | | N/A | |
| 8.11.1 | General | | N/A | |
| 8.11.2 | Product Classification | | N/A | |
| 8.11.3 | Mechanical strength test, variable N | | _ | |
| 8.11.4 | Mechanical strength test 250N, including end stops | | N/A | |
| 8.12 | Telescoping or rod antennas | (See Annex T) | _ | |
| | Button/Ball diameter (mm): | | _ | |

| 9 | THERMAL BURN INJURY | | Р |
|-----|---------------------------------------|-----|---|
| 9.2 | Thermal energy source classifications | TS1 | Р |

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|--------|--|--|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| 9.3 | Safeguard against thermal energy sources | TS1 limits not exceeded in normal or single fault conditions | Р | |
| 9.4 | Requirements for safeguards | | Р | |
| 9.4.1 | Equipment safeguard | | N/A | |
| 9.4.2 | Instructional safeguard | | _ | |

| 10 | RADIATION | | N/A |
|-----------|---|----------------------------------|-----|
| 10.2 | Radiation energy source classification | | N/A |
| 10.2.1 | General classification | | N/A |
| 10.3 | Protection against laser radiation | | N/A |
| | Laser radiation that exists equipment: | | _ |
| | Normal, abnormal, single-fault: | (See attached laser test report) | _ |
| | Instructional safeguard: | | _ |
| | Tool: | | _ |
| 10.4 | Protection against visible, infrared, and UV radiation | | N/A |
| 10.4.1 | General | | N/A |
| 10.4.1.a) | RS3 for Ordinary and instructed persons: | | _ |
| 10.4.1.b) | RS3 accessible to a skilled person: | | _ |
| | Personal safeguard (PPE) instructional safeguard: | | _ |
| 10.4.1.c) | Equipment visible, IR, UV does not exceed RS1: | | _ |
| 10.4.1.d) | Normal, abnormal, single-fault conditions: | (See appended table B.3 & B.4) | _ |
| 10.4.1.e) | Enclosure material employed as safeguard is opaque: | | _ |
| 10.4.1.f) | UV attenuation: | | _ |
| 10.4.1.g) | Materials resistant to degradation UV: | | _ |
| 10.4.1.h) | Enclosure containment of optical radiation: | | _ |
| 10.4.1.i) | Exempt Group under normal operating conditions | | _ |
| 10.4.2 | Instructional safeguard: | | _ |
| 10.5 | Protection against x-radiation | | N/A |
| 10.5.1 | X- radiation energy source that exists equipment: | (See appended table B.3 & B.4) | _ |
| | Normal, abnormal, single fault conditions | | N/A |
| | Equipment safeguards: | | _ |
| | Instructional safeguard for skilled person: | | _ |
| 10.5.3 | Most unfavourable supply voltage to give maximum radiation: (IEC 60950-1, Annex H) | | _ |

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| Clause | Requirement + Test | Result - Remark | Verdict | |
| | Abnormal and single-fault condition: | (See appended table B.3 & B.4) | | |
| | | (See appended table B.3 & B.4) | _ | |
| | Maximum radiation (pA/kg): | | _ | |
| 10.6 | Protection against acoustic energy sources | | N/A | |
| 10.6.1 | General | | N/A | |
| 10.6.2 | Classification | | N/A | |
| | Acoustic output, dB(A): | | _ | |
| | Output voltage, unweighted r.m.s: | | _ | |
| 10.6.4 | Protection of persons | | N/A | |
| | Instructional safeguards: | | _ | |
| | Equipment safeguard prevent ordinary person to RS2: | | _ | |
| | Means to actively inform user of increase sound pressure: | | _ | |
| | Equipment safeguard prevent ordinary person to RS2: | | _ | |
| 10.6.5 | Requirements for listening devices (headphones, earphones, etc.) | | N/A | |
| 10.6.5.1 | Corded passive listening devices with analogue input | | N/A | |
| | Input voltage with 94 dB(A) LAeq acoustic pressure output: | | _ | |
| 10.6.5.2 | Corded listening devices with digital input | | N/A | |
| | Maximum dB(A): | | _ | |
| 10.6.5.3 | Cordless listening device | | N/A | |
| | Maximum dB(A): | | _ | |

| В | NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS | | Р |
|-------|---|--|-----|
| B.2 | Normal Operating Conditions | | Р |
| B.2.1 | General requirements: | (See Test Item Particulars and appended test tables) | _ |
| | Audio Amplifiers and equipment with audio amplifiers | (See Annex E) | _ |
| B.2.3 | Supply voltage and tolerances | Not directly connected to mains | N/A |
| B.2.5 | Input test: | (See appended table B.2.5) | _ |
| B.3 | Simulated abnormal operating conditions | | Р |
| B.3.1 | General requirements | (See appended table B.3) | _ |
| B.3.2 | Covering of ventilation openings | | N/A |
| B.3.3 | D.C. mains polarity test | | N/A |
| B.3.4 | Setting of voltage selector: | | _ |

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|---------|---|--------------------------|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| B.3.5 | Maximum load at output terminals: | | _ | |
| B.3.6 | Reverse battery polarity | | N/A | |
| B.3.7 | Abnormal operating conditions as specified in Clause E.2. | | N/A | |
| B.3.8 | Safeguards functional during and after abnormal operating conditions | | N/A | |
| B.4 | Simulated single fault conditions | | Р | |
| B.4.2 | Temperature controlling device open or short-circuited: | (See appended table B.4) | _ | |
| B.4.3 | Motor tests | | N/A | |
| B.4.3.1 | Motor blocked or rotor locked increasing the internal ambient temperature: | (See Clause G.5) | _ | |
| B.4.4 | Short circuit of functional insulation | | N/A | |
| B.4.4.1 | Short circuit of clearances for functional insulation | | Р | |
| B.4.4.2 | Short circuit of creepage distances for functional insulation | | Р | |
| 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 | | N/A | |
| B.4.6 | Short circuit or disconnect of passive components | | Р | |
| B.4.7 | Continuous operation of components | | N/A | |
| B.4.8 | Class 1 and Class 2 energy sources within limits during and after single fault conditions | | Р | |
| B.4.9 | Battery charging under single fault conditions: | (See Annex M) | | |
| | | | | |
| С | UV RADIATION | | N/A | |
| C.1 | Protection of materials in equipment from UV radiation | | N/A | |

| С | 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 |
| C.2.1 | Test apparatus | | N/A |
| C.2.2 | Mounting of test samples | | N/A |
| C.2.3 | Carbon-arc light-exposure apparatus | | N/A |
| C.2.4 | Xenon-arc light exposure apparatus | | 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 |

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|--------------------|--------------------|--|-----------------|--|---------|
| Clause | Requirement + Test | | Result - Remark | | Verdict |

| E | TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS | | N/A |
|-----|---|--|-----|
| E.1 | Audio amplifier normal operating conditions | | N/A |
| | Audio signal voltage (V) | | _ |
| | Rated load impedance (Ω) | | _ |
| E.2 | Audio amplifier abnormal operating conditions | | N/A |

| F | EQUIPMENT MARKINGS, INSTRUCTIONS, AND | INSTRUCTIONAL SAFEGUARDS | Р |
|---------|--|---------------------------|-----|
| F.1 | General requirements | | Р |
| | Instructions – Language: | | _ |
| F.2 | Letter symbols and graphical symbols | | Р |
| F.2.1 | Letter symbols according to IEC60027-1 | | Р |
| F.2.2 | Graphic symbols IEC, ISO or manufacturer specific | | Р |
| F.3 | Equipment markings | | Р |
| F.3.1 | Equipment marking locations | | Р |
| F.3.2 | Equipment identification markings | | Р |
| F.3.2.1 | Manufacturer identification | Shrader Electronics Ltd. | _ |
| F.3.2.2 | Model identification: | AG2FW4 | _ |
| F.3.3 | Equipment rating markings | | N/A |
| F.3.3.1 | Equipment with direct connection to mains | | N/A |
| F.3.3.2 | Equipment without direct connection to mains | Not required to be marked | Р |
| F.3.3.3 | Nature of supply voltage: | | _ |
| F.3.3.4 | Rated voltage | | _ |
| F.3.3.4 | Rated frequency: | | _ |
| F.3.3.6 | Rated current or rated power: | | _ |
| F.3.3.7 | Equipment with multiple supply connections | | N/A |
| F.3.4 | Voltage setting device | | N/A |
| F.3.5 | Terminals and operating devices | | N/A |
| F.3.5.1 | Mains appliance outlet and socket-outlet markings: | | _ |
| F.3.5.2 | Switch position identification marking: | | _ |
| F.3.5.3 | Replacement fuse identification and rating markings: | | _ |
| F.3.5.4 | Replacement battery identification marking: | | _ |
| F.3.5.5 | Terminal marking location | | N/A |
| F.3.6 | Equipment markings related to equipment classification | | N/A |
| F.3.6.1 | Class I Equipment | | N/A |

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|---|---|--|-----|--|
| Clause Requirement + Test Result - Remark Verdict | | | | |
| F.3.6.1.1 | Protective earthing conductor terminal | | N/A | |
| F.3.6.1.2 | Neutral conductor terminal | | N/A | |
| F.3.6.1.3 | Protective bonding conductor terminals | | N/A | |
| F.3.6.2 | Class II equipment (IEC60417-5172) | | N/A | |
| F.3.6.2.1 | Class II equipment with or without functional earth | | N/A | |
| F.3.6.2.2 | Class II equipment with functional earth terminal marking | | N/A | |
| F.3.7 | Equipment IP rating marking | | _ | |
| F.3.8 | External power supply output marking | | N/A | |
| F.3.9 | Durability, legibility and permanence of marking | | Р | |
| F.3.10 | Test for permanence of markings | | Р | |
| F.4 | Instructions | | N/A | |
| | a) Equipment for use in locations where children not likely to be present – marking | | N/A | |
| | b) Instructions given for installation or initial use | | N/A | |
| | c) Equipment intended to be fastened in place | | N/A | |
| | d) Equipment intended for use only in restricted access area | | N/A | |
| | e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1 | | N/A | |
| | f) Protective earthing employed as safeguard | | N/A | |
| | g) Protective earthing conductor current exceeding ES 2 limits | | N/A | |
| | h) Symbols used on equipment | | N/A | |
| | i) Permanently connected equipment not provided with all-pole mains switch | | N/A | |
| | j) Replaceable components or modules providing safeguard function | | N/A | |
| F.5 | Instructional safeguards | | N/A | |
| | Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction | | N/A | |

| G | COMPONENTS | |
|-------|---|-----|
| G.1 | Switches | |
| G.1.1 | General requirements | N/A |
| G.1.2 | Ratings, endurance, spacing, maximum load | N/A |
| G.2 | Relays | |
| G.2.1 | General requirements | N/A |

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|------------------|--|--------------------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| G.2.2 | Overload test | | N/A |
| G.2.3 | Relay controlling connectors supply power | | N/A |
| G.2.4 | Mains relay, modified as stated in G.2 | | N/A |
| G.3 | Protection Devices | | N/A |
| G.3.1 | Thermal cut-offs | | N/A |
| G.3.1.1a) &b) | Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b) | | N/A |
| G.3.1.1c) | Thermal cut-outs tested as part of the equipment as indicated in c) | | N/A |
| G.3.1.2 | Thermal cut-off connections maintained and secure | | N/A |
| G.3.2 | Thermal links | | N/A |
| G.3.2.1a) | Thermal links separately tested with IEC 60691 | | N/A |
| G.3.2.1b) | Thermal links tested as part of the equipment | | N/A |
| | Aging hours (H) | | _ |
| | Single Fault Condition: | | _ |
| | Test Voltage (V) and Insulation Resistance (Ω). : | | _ |
| G.3.3 | PTC Thermistors | | N/A |
| G.3.4 | Overcurrent protection devices | | N/A |
| G.3.5 | Safeguards components not mentioned in G.3.1 to | G.3.5 | N/A |
| G.3.5.1 | Non-resettable devices suitably rated and marking provided | | N/A |
| G.3.5.2 | Single faults conditions | (See appended Table B.4) | _ |
| G.4 | Connectors | • | N/A |
| G.4.1 | Spacings | | N/A |
| G.4.2 | Mains connector configuration: | | _ |
| G.4.3 | Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely | | N/A |
| G.5 | Wound Components | | N/A |
| G.5.1 | Wire insulation in wound components | (See Annex J) | _ |
| G.5.1.2 a) | Two wires in contact inside wound component, angle between 45° and 90° | | N/A |
| G.5.1.2 b) | Construction subject to routine testing | | N/A |
| G.5.2 | Endurance test on wound components | | N/A |
| G.5.2.1 | General test requirements | | N/A |
| G.5.2.2 | Heat run test | | N/A |
| | Time (s) | | _ |
| | Temperature (°C) | | _ |
| G.5.2.3 | Wound Components supplied by mains | | N/A |

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|--------------------|--|--------------------------|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| G.5.3 | Transformers | | N/A | |
| G.5.3.1 | Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1): | | _ | |
| | Position: | | | |
| | Method of protection | | _ | |
| G.5.3.2 | Insulation | | N/A | |
| | Protection from displacement of windings: | | _ | |
| G.5.3.3 | Overload test: | (See appended table B.3) | _ | |
| G.5.3.3.1 | Test conditions | | N/A | |
| G.5.3.3.2 | Winding Temperatures testing in the unit | | N/A | |
| G.5.3.3.3 | Winding Temperatures - Alternative test method | | N/A | |
| G.5.4 | Motors | 1 | N/A | |
| G.5.4.1 | General requirements | No motors | N/A | |
| | Position: | | | |
| G.5.4.2 | Test conditions | | N/A | |
| G.5.4.3 | Running overload test | | N/A | |
| G.5.4.4 | Locked-rotor overload test | | N/A | |
| | Test duration (days): | | _ | |
| G.5.4.5 | Running overload test for d.c. motors in secondary circuits | | N/A | |
| G.5.4.5.2 | Tested in the unit | | N/A | |
| | Electric strength test (V) | | _ | |
| G.5.4.5.3 | Tested on the Bench - Alternative test method; test time (h): | | _ | |
| | Electric strength test (V) | | _ | |
| G.5.4.6 | Locked-rotor overload test for d.c. motors in secondary circuits | | N/A | |
| G.5.4.6.2 | Tested in the unit | | N/A | |
| | Maximum Temperature | | _ | |
| | Electric strength test (V) | | | |
| G.5.4.6.3 | Tested on the bench - Alternative test method; test time (h): | | _ | |
| | Electric strength test (V) | | _ | |
| 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 | |
| G.6.1 | General | | N/A | |

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|--------------------|---|-------------------------------|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| G.6.2 | Solvent-based enamel wiring insulation | | N/A | |
| G.7 | Mains supply cords | | N/A | |
| G.7.1 | General requirements | | N/A | |
| | Туре | | _ | |
| | Rated current (A): | | _ | |
| | Cross-sectional area (mm²), (AWG): | | _ | |
| G.7.2 | Compliance and test method | | 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) | | _ | |
| G.7.3.2.2 | Strain relief mechanism failure | | N/A | |
| G.7.3.2.3 | Cord sheath or jacket position, distance (mm): | | _ | |
| G.7.3.2.4 | Strain relief comprised of polymeric material | | N/A | |
| G.7.4 | Cord Entry | (See appended table 5.4.11.1) | _ | |
| G.7.5 | Non-detachable cord bend protection | | N/A | |
| G.7.5.1 | Requirements | | N/A | |
| G.7.5.2 | Mass (g) | | _ | |
| | Diameter (m) | | _ | |
| | Temperature (°C): | | _ | |
| G.7.6 | Supply wiring space | | N/A | |
| G.7.6.2 | Stranded wire | | N/A | |
| G.7.6.2.1 | Test with 8 mm strand | | N/A | |
| G.8 | Varistors | | N/A | |
| G.8.1 | General requirements | | N/A | |
| G.8.2 | Safeguard against shock | | N/A | |
| G.8.3 | Safeguard against fire | | N/A | |
| G.8.3.2 | Varistor overload test: | (See appended table B.3) | _ | |
| G.8.3.3 | Temporary overvoltage: | (See appended table B.3) | _ | |
| G.9 | Integrated Circuit (IC) Current Limiters | | N/A | |
| G.9.1 a) | Manufacturer defines limit at max. 5A. | | N/A | |
| G.9.1 b) | Limiters do not have manual operator or reset | | N/A | |
| G.9.1 c) | Supply source does not exceed 250 VA: | | _ | |
| G.9.1 d) | IC limiter output current (max. 5A) | | _ | |
| G.9.1 e) | Manufacturers' defined drift | | _ | |
| G.9.2 | Test Program 1 | | N/A | |

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|--------------------|--|----------------------------------|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |
| G.9.3 | Test Program 2 | | N/A | |
| G.9.4 | Test Program 3 | | N/A | |
| G.10 | Resistors | | N/A | |
| G.10.1 | General requirements | No resistors used as a safeguard | N/A | |
| G.10.2 | Resistor test | | N/A | |
| G.10.3 | Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable | | N/A | |
| G.10.3.1 | General requirements | | N/A | |
| G.10.3.2 | Voltage surge test | | N/A | |
| G.10.3.3 | Impulse test | | N/A | |
| G.11 | Capacitor 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 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results) | | N/A | |
| | Type test voltage Vini: | | _ | |
| | Routine test voltage, Vini,b: | | _ | |
| G.13 | Printed boards | | Р | |
| G.13.1 | General requirements | | Р | |
| G.13.2 | Uncoated printed boards | | Р | |
| G.13.3 | Coated printed boards | | N/A | |
| G.13.4 | Insulation between conductors on the same inner surface | | Р | |
| | Compliance with cemented joint requirements (Specify construction): | | _ | |
| G.13.5 | Insulation between conductors on different surfaces | | Р | |
| | Distance through insulation | (See appended table 5.4.4.5) | _ | |
| | 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.13.6.2a) | Thermal conditioning | | N/A | |
| G.13.6.2b) | Electric strength test | | N/A | |
| G.13.6.2c) | Abrasion resistance test | | N/A | |
| G.14 | Coating on components terminals | | N/A | |
| G.14.1 | Requirements: | (See G.13) | _ | |

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| Clause | Requirement + Test | Result - Remark | Verdict |
| G.15 | Liquid filled components | | N/A |
| G.15.1 | General requirements | | N/A |
| G.15.2 | Requirements | | N/A |
| G.15.3 | Compliance and test methods | | N/A |
| G.15.3.1 | Hydrostatic pressure test | | N/A |
| G.15.3.2 | Creep resistance test | | N/A |
| G.15.3.3 | Tubing and fittings compatibility test | | N/A |
| G.15.3.4 | Vibration test | | N/A |
| G.15.3.5 | Thermal cycling test | | N/A |
| G.15.3.6 | Force test | | N/A |
| G.15.4 | Compliance | | N/A |
| G.16 | IC including capacitor discharge function (ICX) | | N/A |
| a) | Humidity treatment in accordance with sc5.4.8 – 120 hours | | N/A |
| b) | Impulse test using circuit 2 with Uc = to transient voltage: | | _ |
| C1) | Application of ac voltage at 110% of rated voltage for 2.5 minutes | | N/A |
| C2) | Test voltage: | | _ |
| D1) | 10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer | | N/A |
| D2) | Capacitance: | | _ |
| D3) | Resistance: | | _ |

| Н | 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: | _ |
| H.3.2.1 | Conditions for use of a tripping device or a monitoring voltage complied with | N/A |
| H.3.2.2 | Tripping device | N/A |
| H.3.2.3 | Monitoring voltage (V): | _ |

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| Clause | Requirement + Test | Result - Remark | Verdict |

| J | INSULATED WINDING WIRES FOR USE WITHO | UT INTERLEAVED INSULATION | N/A |
|---|---------------------------------------|----------------------------|-----|
| | General requirements | (See separate test report) | N/A |

| K | SAFETY INTERLOCKS | | N/A |
|-------|--|-----------------------------|-----|
| K.1 | General requirements | | N/A |
| K.2 | Components of safety interlock safeguard mechanism | (See Annex G) | _ |
| K.3 | Inadvertent change of operating mode | | N/A |
| K.4 | Interlock safeguard override | | N/A |
| K.5 | Fail-safe | | N/A |
| | Compliance | (See appended table B.4) | _ |
| K.6 | Mechanically operated safety interlocks | | N/A |
| K.6.1 | Endurance requirement | | N/A |
| K.6.2 | Compliance and Test method | | _ |
| K.7 | Interlock circuit isolation | | N/A |
| K.7.1 | Separation distance for contact gaps & interlock circuit elements (type and circuit location): | | _ |
| K.7.2 | Overload test, Current (A) | | _ |
| K.7.3 | Endurance test | | N/A |
| K.7.4 | Electric strength test: | (See appended table 5.4.11) | _ |

| L | DISCONNECT DEVICES | | N/A |
|-----|---------------------------------|---------------------------------|-----|
| L.1 | General requirements | Not directly connected to mains | N/A |
| L.2 | Permanently connected equipment | | N/A |
| L.3 | Parts that remain energized | | N/A |
| L.4 | Single phase equipment | | N/A |
| L.5 | Three-phase equipment | | N/A |
| L.6 | Switches as disconnect devices | | N/A |
| L.7 | Plugs as disconnect devices | | N/A |
| L.8 | Multiple power sources | | N/A |

| М | EQUIPMENT CONTAINING BATTERIES AND TH | EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS | |
|-------|---|--|-----|
| M.1 | General requirements | | Р |
| M.2 | Safety of batteries and their cells | Battery approved to UL MH12568 | Р |
| M.2.1 | Requirements | | N/A |
| M.2.2 | Compliance and test method (identify method): | | _ |
| M.3 | Protection circuits | | N/A |

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|--------------------|--|---|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| M.3.1 | Requirements | | N/A |
| M.3.2 | Tests | | N/A |
| | - Overcharging of a rechargeable battery | | N/A |
| | - Unintentional charging of a non-rechargeable battery | | N/A |
| | - Reverse charging of a rechargeable battery | | N/A |
| | - Excessive discharging rate for any battery | | N/A |
| M.3.3 | Compliance | (See appended Tables and Annex M and M.4) | _ |
| M.4 | Additional safeguards for equipment containing secondary lithium battery | No secondary cells | N/A |
| M.4.1 | General | | N/A |
| M.4.2 | Charging safeguards | | N/A |
| M.4.2.1 | Charging operating limits | | N/A |
| M.4.2.2a) | Charging voltage, current and temperature: | (See Table M.4) | _ |
| M.4.2.2 b) | Single faults in charging circuitry | (See Annex B.4) | _ |
| M.4.3 | Fire Enclosure | | N/A |
| M.4.4 | Endurance of equipment containing a secondary lithium battery | | N/A |
| M.4.4.2 | Preparation | | N/A |
| M.4.4.3 | Drop and charge/discharge function tests | | N/A |
| | Drop | | N/A |
| | Charge | | N/A |
| | Discharge | | N/A |
| M.4.4.4 | Charge-discharge cycle test | | N/A |
| M.4.4.5 | Result of charge-discharge cycle test | | N/A |
| M.5 | Risk of burn due to short circuit during carrying | | N/A |
| M.5.1 | Requirement | | N/A |
| M.5.2 | Compliance and Test Method (Test of P.2.3) | | N/A |
| M.6 | Prevention of short circuits and protection from other effects of electric current | | N/A |
| M.6.1 | Short circuits | | N/A |
| M.6.1.1 | General requirements | | N/A |
| M.6.1.2 | Test method to simulate an internal fault | | N/A |
| M.6.1.3 | Compliance (Specify M.6.1.2 or alternative method): | | _ |
| M.6.2 | Leakage current (mA): | | _ |
| M.7 | Risk of explosion from lead acid and NiCd batteries | | N/A |

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|--------------------|---|-----------------|----------------------|--|
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| Clause | Requirement + Test | Result - Remark | Verdict | |
| M.7.1 | Ventilation preventing explosive gas concentration | | N/A | |
| M.7.2 | Compliance and test method | | N/A | |
| M.8 | Protection against internal ignition from external spark sources of lead acid batteries | | N/A | |
| M.8.1 | General requirements | | N/A | |
| M.8.2 | Test method | | N/A | |
| M.8.2.1 | General requirements | | N/A | |
| M.8.2.2 | Estimation of hypothetical volume Vz (m³/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 (Determination of compliance: inspection, data review; or abnormal testing) | | _ | |

| N | ELECTROCHEMICAL POTENTIALS | | Р |
|---|----------------------------|-----------------------------|---|
| | Metal(s) used: | Pollution degree considered | _ |

| 0 | MEASUREMENT OF CREEPAGE DISTANCES A | ND CLEARANCES | Р |
|---|--|---------------|---|
| | Figures O.1 to O.20 of this Annex applied: | | _ |

| Р | SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS | | |
|---------|--|---------------------------|-----|
| P.1 | General requirements | Equipment for building in | N/A |
| P.2.2 | Safeguards against entry of foreign object | | N/A |
| | Location and Dimensions (mm): | | _ |
| P.2.3 | Safeguard against the consequences of entry of foreign object | | N/A |
| P.2.3.1 | Safeguards against the entry of a foreign object | | N/A |
| | Openings in transportable equipment | | N/A |
| | Transportable equipment with metalized plastic parts: | | _ |
| P.2.3.2 | Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard): | | _ |
| P.3 | Safeguards against spillage of internal liquids | | N/A |
| P.3.1 | General requirements | | N/A |

| | 9 | | · · · · · · · · · · · · · · · · · · · | | |
|----------|---|-----------------|---------------------------------------|--|--|
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| Clause | Requirement + Test | Result - Remark | Verdict | | |
| | | 1 | | | |
| P.3.2 | Determination of spillage consequences | | N/A | | |
| P.3.3 | Spillage safeguards | | N/A | | |
| P.3.4 | Safeguards effectiveness | | N/A | | |
| P.4 | Metallized coatings and adhesive securing parts | | N/A | | |
| P.4.2 a) | Conditioning testing | | N/A | | |
| | Tc (°C): | | _ | | |
| | Tr (°C) | | _ | | |
| | Ta (°C): | | _ | | |
| P.4.2 b) | Abrasion testing: | (See G.13.6.2) | _ | | |
| P.4.2 c) | Mechanical strength testing | (See Annex T) | _ | | |

| Q | CIRCUITS INTENDED FOR INTERCONNECTION | WITH BUILDING WIRING | N/A |
|----------|---|----------------------|-----|
| Q.1 | Limited power sources | | N/A |
| Q.1.1 a) | Inherently limited output | | N/A |
| Q.1.1 b) | Impedance limited output | | N/A |
| | - Regulating network limited output under normal operating and simulated single fault condition | | N/A |
| Q.1.1 c) | Overcurrent protective device limited output | | N/A |
| Q.1.1 d) | IC current limiter complying with G.9 | | N/A |
| Q.1.2 | Compliance and test method | | N/A |
| Q.2 | Test for external circuits – paired conductor cable | | N/A |
| | Maximum output current (A): | | _ |
| | Current limiting method | | |

| R | LIMITED SHORT CIRCUIT TEST | N/A |
|-----|--|-----|
| R.1 | General requirements | N/A |
| R.2 | Determination of the overcurrent protective device and circuit | N/A |
| R.3 | Test method Supply voltage (V) and short-circuit current (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) | _ |

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|--------|--|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | 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) | | _ |
| | Test flame according to IEC 60695-11-5 with conditions as set out | | N/A |
| | Test specimen does not show any additional hole | | N/A |
| S.3 | Flammability test for the bottom of a fire enclosure | | N/A |
| | Samples, material: | | _ |
| | Wall thickness (mm): | | _ |
| | Cheesecloth did not ignite | | N/A |
| 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 does not exceed 4 000 W | | N/A |
| | Samples, material | | _ |
| | Wall thickness (mm) | | _ |
| | Conditioning (test condition), (°C): | | _ |
| | Test flame according to IEC 60695-11-20 with conditions as set out | | N/A |
| | After every test specimen was not consumed completely | | N/A |
| | After fifth flame application, flame extinguished within 1 min | | N/A |

| T | MECHANICAL STRENGTH TESTS | | |
|-----|---------------------------|---|-----|
| T.1 | General requirements | | Р |
| T.2 | Steady force test, 10 N | (See appended table T.2) | _ |
| T.3 | Steady force test, 30 N | (See appended table T3) | _ |
| T.4 | Steady force test, 100 N | (See appended table T4) | _ |
| T.5 | Steady force test, 250 N | (See appended table T5) | _ |
| T.6 | Enclosure impact test | (See appended table T6) Equipment for building in | N/A |

| | 5 | • | | |
|--------------------|--------------------------------------|--------------------------|---------|--|
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| Clause | Requirement + Test | Result - Remark | Verdict | |
| | Fall test | | N/A | |
| | Swing test | | N/A | |
| T.7 | Drop test: | (See appended table T7) | _ | |
| T.8 | Stress relief test | (See appended table T8) | _ | |
| T.9 | Impact Test (glass) | | N/A | |
| T.9.1 | General requirements | | N/A | |
| T.9.2 | Impact test and compliance | | N/A | |
| | Impact energy (J) | | _ | |
| | Height (m) | | _ | |
| T.10 | Glass fragmentation test | (See sub-clause 4.4.4.9) | _ | |
| T.11 | Test for telescoping or rod antennas | | N/A | |
| | Torque value (Nm) | | _ | |

| U | MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION | | |
|-----|---|---------------|-----|
| U.1 | General requirements | | N/A |
| U.2 | Compliance and test method for non-intrinsically protected CRTs | | N/A |
| U.3 | Protective Screen | (See Annex T) | _ |

| V | DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES) | | |
|-----|--|--|---|
| V.1 | Accessible parts of equipment | | Р |
| V.2 | Accessible part criterion | | Р |

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| Clause | Requirement + Test | | Result - Remark | Verdict | |

| 4.1.2 | TABLE | E: List of critical con | nponents | | | |
|-------------------|-------|---|----------------------------------|-------------------------|-----------------|------------------------------------|
| Object / part No. | | Manufacturer/ trademark | Type / model | Technical data | Standard | Mark(s) of conformity ¹ |
| | | | | | | |
| - Description | 2) : | | | | | |
| Enclosure | | Royal DSM | Akulon K224- G7 PA66-GF-35 | 220 °C melting temp, HB | IEC 60695-11-10 | Tested in application |
| PCB | | Thai Laminate Manufacturer Co. Ltd. | FR4-TKM140 | V-0 | UL94 | UL, E174552 |
| Battery | | Maxell | CR2050 | 3 V, 220 mAh | MH12568 | UL |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| - Description | 2) : | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| - Description | 2): | | 1 | | | ı |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance.

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

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| Clause | Requirement + Test | Res | sult - Remark | Verdict |

| 4.8.4, 4.8. | 5 TABLE: Lit | hium coin/button cell batteries | mechanical tests | N/A |
|------------------------------|-------------------|--|------------------------------------|----------------------------|
| (The follo | wing mechani | cal tests are conducted in the s | sequence noted.) | |
| 4.8.4.2 | TABLE: Str | ess relief test | | _ |
| | Part | Material | Oven Temperature (°C) | Comments |
| | | | | |
| 4.8.4.3 | TABLE: Ba | ttery replacement test | | _ |
| Battery pa | rt no | ······································ | 1 | _ |
| Battery Ins | stallation/withdr | awal | Battery Installation/Removal Cycle | Comments |
| | | | 1 | |
| | | | 2 | |
| | | | 3 | |
| | | | 4 | |
| | | | 5 | |
| | | | 6 | |
| | | | 8 | |
| | | | 9 | |
| | | | 10 | |
| 4.8.4.4 | TABLE: Dro | op test | | _ |
| Imp | act Area | Drop Distance | Drop No. | Observations |
| | | | 1 | |
| | | | 2 | |
| | | | 3 | |
| 4.8.4.5 | TABLE: Imp | pact | | _ |
| Impacts | per surface | Surface tested | Impact energy (Nm) | Comments |
| | | | | |
| | | | | |
| | | | | |
| 4.8.4.6 | TABLE: Cru | ush test | | _ |
| Test position Surface tested | | Surface tested | Crushing Force (N) | Duration force applied (s) |
| | | | | |
| | | | | |
| Supplemer | ntary informatio | n: | | |
| | | | | |
| | | | | |

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| Clause | Requirement + Test | Result - Remark | Verdict |

| 4.8.5 | TABLE: Litt | nium coin/button cell batteries r | mechanical test result | N/A | | | |
|-----------|----------------------------|-----------------------------------|------------------------|----------------------------|--|--|--|
| Test | position | Surface tested | Force (N) | Duration force applied (s) | | | |
| | | | | | | | |
| | | | | | | | |
| Supplemen | Supplementary information: | | | | | | |

| 5.2 | TABLE | : Classification | of electrical energ | y sources | | | | Р |
|---------|-------------------|-------------------------|-------------------------|-------------------|------------|------------------|---------|----------|
| 5.2.2.2 | - Steady Stat | te Voltage and Cu | urrent conditions | | | | | |
| | Cupply | Location (e.g. | | | Parameters | | | |
| No. | Supply Voltage | circuit designation) | Test conditions | U (Vrms or Vpl | k) (A | I pk or Arms) | Hz | ES Class |
| 1 | 3 Vdc | Battery | Normal | 3 | | - | 0 | |
| | | | Abnormal | 3 | | - | 0 | ES1 |
| | | | Single fault – SC/OC | 0 | | - | 0 | |
| | | | Normal | | | | | |
| | | | Abnormal | | | | | |
| | | | Single fault – SC/OC | | | | | |
| 5.2.2.3 | - Capacitance | e Limits | | | | | | |
| | Supply | Location (e.g. | | | Parameters | | | |
| No. | Voltage | circuit designation) | Test conditions | Capacitance | e, nF | F Upk (V) | | ES Class |
| | | | Normal | | | | | |
| | | | Abnormal | | | | | |
| | | | Single fault – SC/OC | | | | | |
| 5.2.2.4 | - Single Pulse | es | | | | | | |
| | Supply | Location (e.g. | | | Paran | neters | | |
| No. | Voltage | circuit designation) | Test conditions | Duration (ms) | Upk | (V) I | pk (mA) | ES Class |
| | | | Normal | | | | | |
| | | | Abnormal | | | | | |
| | | | Single fault – SC/OC | | | | | |

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| Clause | Requirement + Test | | Result - Remark | Verdict |

| 5.2.2.5 | - Repetitive P | ulses | | | | | |
|------------|----------------|-------------------------|-------------------------|---------------|---------|----------|----------|
| No. Supply | | Location (e.g. | Took oon didions | | | 50 O | |
| No. | Voltage | circuit designation) | Test conditions | Off time (ms) | Upk (V) | lpk (mA) | ES Class |
| | | | Normal | | | | |
| | | | Abnormal | | | | |
| | | | Single fault – SC/OC | | | | |

Test Conditions:

Normal -

Abnormal -

Supplementary information: SC=Short Circuit, OC=Short Circuit

| 5.4.1.4, 6.3.2, 9.0, B.2.6 | T | ABLE: Temperature r | neasurem | ents | S | | | | | | | Р |
|----------------------------------|------|-------------------------------|---------------------|------|-------|------------------|-----|-------------------|-----|--------|-------------------------------|----------------------------------|
| | | Supply voltage (V) | | .: | 3 V | dc | | | | | | _ |
| | | Ambient T _{min} (°C) | | .: | 25 ° | °C | | | | | | _ |
| | | Ambient T _{max} (°C) | | .: | 25 ° | °C | | | | | | _ |
| | | Tma (°C): | | 40 ° | °C | | | | | | _ | |
| Maximum n | nea | sured temperature T o | f part/at: | | | | | Т (| °C) | | | Allowed T _{max} (°C) |
| ** | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Supplemen | tary | information: | | | | | | | | | | |
| Temperatur | e T | of winding: | t ₁ (°C) | R | 1 (Ω) | t ₂ (| °C) | R ₂ (9 | 2) | T (°C) | Allowed T _{max} (°C) | Insulation class |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Supplementary information:

Note 1: Tma should be considered as directed by appliable requirement

Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9)

^{**} Equipment previously approved to EN 60950-1

| | | rage 40 | 01 3 1 | | | Report No. 20 | 30002-1 |
|---------------------------|-------------------|------------------------------|---------|-----------------------|-----------|-----------------|------------|
| | | IEC 62368- | 1 (ed.: | 2) | | | |
| Clause | Requirement + 1 | est | | Result - R | Remark | | Verdict |
| | ı | | | | | | |
| 5.4.1.10.2 | TABLE: Vicat s | oftening temperature of the | rmopl | astics | | | N/A |
| Penetration | (mm) | : | | | | | _ |
| Object/ Part No./Material | | | | ıfacturer/t demark | | T softening (°C |) |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Supplement | ary information: | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 5.4.1.10.3 | TABLE: Ball pre | essure test of thermoplastic | s | | | | N/A |
| Allowed imp | oression diameter | (mm): | ≤ 2 m | m | | | |
| Object/Part | No./Material | Manufacturer/trademark | Tes | st tempera | ture (°C) | Impression dia | meter (mm) |
| | | | | | | | |

| 5.4.2.2, 5.4.2.4 and 5.4.3 | | ABLE: Minimum Clearances/Creepage distance | | | | | Р | |
|----------------------------------|------------------------------------|--|-----------------|----------------------------------|------------------|-------------------------|-------------------------------|------------|
| | cl) and creepage at/of/between: | Up (V) | U r.m.s. (V) | Frequenc y (kHz) ¹ | Required cl (mm) | cl (mm) ² | Required ³ cr (mm) | cr (mm) |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Supplementary information:

Supplementary information:

Functional insulation only considered the shorting of which at any location was not considered to pose a risk above ES1 or PS1.

Note 1: Only for frequency above 30 kHz

Note 2: See table 5.4.2.4 if this is based on electric strength test

Note 3: Provide Material Group

| | IEC 62368-1 (ed.2) | | | |
|--------|--------------------|-----------------|---------|--|
| Clause | Requirement + Test | Result - Remark | Verdict | |

| 5.4.2.3 | TABLE: Minimum Cle | N/A | | | |
|-----------|----------------------|----------------------------|---------------------|-----|----------------|
| | Overvoltage Category | (OV) | | : | • |
| | Pollution Degree | | | | |
| Clearance | e distanced between: | Required withstand voltage | Required cl (mm) | Mea | asured cl (mm) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Suppleme | entary information: | | | I | |
| Suppleme | entary information: | | | | |

| 5.4.2.4 | TABLE: Clearances based on electric strength test | | | | | | |
|-------------------------------|---|---------------------|---------------------------------------|-----------------------|--|--|--|
| Test voltage applied between: | | Required cl (mm) | Test voltage (kV) peak/ r.m.s. / d.c. | Breakdown Yes / No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Supplemen | tary information: | 1 | 1 | | | | |

| 5.4.4.2, 5.4.4.5 c) 5.4.4.9 | TABLE: Dis | ABLE: Distance through insulation measurements | | | | | | |
|-----------------------------------|-----------------|--|--------------------|----------|-------------------|-------------|--|--|
| Distance the insulation di | | Peak voltage (V) | Frequency (kHz) | Material | Required DTI (mm) | DTI (mm) | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Supplement | ary information | า: | | | | | | |

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|--------------------|--------------------|-----------------|---------|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | | | |

| | | | | | | | | | T |
|---------------------|---------------|------------------|--------------------|---------------------------|------------------|-----------------|----------------------------------|-----------------------|--------------|
| 5.4.9 | TABLE: Ele | ectric strength | n tests | | | | | | N/A |
| Test voltage | applied betv | veen: | | Voltage shape (AC, DC) | | Test voltage (V |) E | Breakdown Yes / No | |
| Functional: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Basic/supple | mentary: | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Reinforced: | | | | | | | | | |
| | | | | | | | | | |
| Routine Test | ٠,٠ | | | | | | | | |
| Troutine resi | | | | | | | | | |
| | | | | | | | | | |
| Supplementa | ary informati | on: | | | | | | <u> </u> | |
| | | | | | | | | | |
| | TADI | | | •• | | | | | |
| 5.5.2.2 | | ored discharg | - | | | | | | N/A |
| Supply Volta | ige (V), Hz | Test Location | Operati Conditi | | Switch position | | easured Voltage Ifter 2 seconds) | ES Cla | assification |
| | | | (N, S) |) | On or off | (0 | 1101 2 30001103) | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Supplementa | • | | | | | | | | |
| X-capacitors | | | | | | | | | |
| _ | resistor rati | ng: | | | | | | | |
| ☐ ICX: | | | | | | | | | |
| Notes: A. Test Loca | tion: | | | | | | | | |
| | | to Phase; Pha | se to Earl | h: ar | nd/or Neutral to |) Ear | th | | |
| | | bbreviations: | | ., | | | - | | |

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

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|--------------------|--------------------|--|-----------------|---------|--|--|
| Clause | Requirement + Test | | Result - Remark | Verdict | | |

| 5.6.6.2 | TABLE: Resistance of protective conductors and terminations | | | | | | |
|-----------------|---|------------------|-------|--|----------------|--|--|
| Accessible part | | Test current (A) | 3.1.3 | | Resistance (Ω) | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| 5.7.2.2, 5.7.4 | TABLE: Earthed accessible conductive part | | | | | |
|-------------------|---|---|---|--------------------|--|--|
| Supply volta | ge: | 12 Vdc | | _ | | |
| Location | | Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7 | | ch current (mA) | | |
| | | 1 | | 0 | | |
| | | 2* | | - | | |
| | | 3 | | 0 | | |
| | | 4 | | 0 | | |
| | | 5 | · | 0 | | |
| | | 6 | · | 0 | | |
| | | 8 | · | 0 | | |

Supplementary Information:

Notes:

- [1] Supply voltage is the anticipated maximum Touch Voltage
- [2] Earthed neutral conductor [Voltage differences less than 1% or more]
- [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3
- [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.
- [5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

| IEC 62368-1 (ed.2) | | | | | |
|--------------------|--------------------|--|-----------------|--|---------|
| Clause | Requirement + Test | | Result - Remark | | Verdict |

| 6.2.2 | TABLE: Electric | al power sources | s (PS) measurements | for classification | |
|--------|-----------------|------------------|---------------------|-----------------------|-------------------|
| Source | Description | Measurement | Max Power after 3 s | Max Power after 5 s*) | PS Classification |
| | | Power (W): | | | |
| Α | 3 V Battery | VA (V): | - | - | PS1 |
| | | IA (A): | | | |
| | | Power (W): | | | |
| В | | VA (V): | | | |
| | | IA (A): | | | |
| | | Power (W): | | | |
| С | | VA (V): | | | |
| | | IA (A): | | | |
| | | Power (W): | | | |
| D | | VA (V): | | | |
| | | IA (A): | | | |

Supplementary Information:

(*) Measurement taken only when limits at 3 seconds exceed PS1 limits

| 6.2.3.1 | TABLE: Determinate | TABLE: Determination of Potential Ignition Sources (Arcing PIS) | | | | | | |
|---------|--------------------|---|-------------------------------------|--|-------------------------|--|--|--|
| | Location | Open circuit voltage After 3 s (Vp) | Measured r.m.s current (Irms) | Calculated value (V _p x I _{rms}) | Arcing PIS? Yes / No | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Supplementary information:

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V_p) and normal operating condition rms current (I_{rms}) is greater than 15.

| 6.2.3.2 | TABLE: De | TABLE: Determination of Potential Ignition Sources (Resistive PIS) | | | | | | |
|------------------------|-----------|--|--|---|--|-----------------------------|--|--|
| Circuit Location (x-y) | | | | Measured wattage or VA After 30 s (W / VA) | Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment) | Resistive PIS? Yes/No | | |
| | | | | | | | | |
| | | | | | | | | |

| | | I | EC 62368-1 (ed. | 2) | | |
|--------|------------|----------|-----------------|-----------------|---|---------|
| Clause | Requiremen | t + Test | | Result - Remark | (| Verdict |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 0 | 1.6 | | | | | |

Supplementary Information:

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

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

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

| 8.5.5 | TABLE: High Pressure Lamp | | | N/A |
|---------------|-----------------------------------|--------|-----------------|--------------|
| Description | | Values | Energy Source C | assification |
| Lamp type | : | | _ | |
| Manufacture | r: | | _ | |
| Cat no | : | | _ | |
| Pressure (co | old) (MPa): | | MS_ | |
| Pressure (op | perating) (MPa) | | MS_ | |
| Operating tin | ne (minutes) | | _ | |
| Explosion m | ethod: | | _ | |
| Max particle | length escaping enclosure (mm) .: | | MS_ | |
| Max particle | length beyond 1 m (mm) | | MS_ | |
| Overall resul | t: | | | |
| Supplementa | ary information: | | | |

| B.2.5 | TABLE: Inp | ABLE: Input test | | | | | | | | |
|-------|------------|------------------|-------|-------------|---------|------------|------------------|--|--|--|
| U (V) | I (A) | I rated (A) | P (W) | P rated (W) | Fuse No | I fuse (A) | Condition/status | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Supplementary information:

Equipment may be have rated current or rated power or both. Both should be measured

N/A

| IEC 62368-1 (ed.2) | | | | | |
|--------------------|--------------------|-----------------|---------|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | | |

TABLE: Abnormal operating condition tests

Ambient temperature (°C):

| 1 01101 000100 10 | or EUT: Manuf | acturer, model | /type, outpu | ut rating | .: | | | | _ |
|---|---------------------------------------|---------------------|----------------|-------------------|--------------|---------------|---------------|---------------|-------------------|
| Component No. | Abnormal Condition | Supply voltage, (V) | Test time (ms) | Fuse no. | Fu currer | se nt, (A) | T-couple | Temp. (°C) | Observation |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Supplementary Test table is pro Thermal burn in condition for a 0 | vided to recor jury. Column | "Abnormal/Fau | ult." Specify | if test o | onditio | n by in | idicating "Al | | |
| | | | | | | | | | |
| B.4 TABLE: Fault condition tests | | | | | | | | | |
| B.4 IA | BLE: Fault co | ondition tests | | | | | | | Р |
| Ambient temper | | | | | : | 25 | | | P — |
| | ature (°C) | | | | | 25 N/A | | | P — — — |
| Ambient temper | rature (°C) or EUT: Manuf | | | | | N/A se | T-couple | Temp. | P — — Observation |
| Ambient temper | rature (°C) or EUT: Manuf Fault | acturer, model | l/type, outpu | ut rating Fuse | .: Fu | N/A se | T-couple | | <u> </u> |
| Ambient temper Power source for Component No. | rature (°C) or EUT: Manuf Fault | acturer, model | l/type, outpu | ut rating Fuse | .: Fu | N/A se | T-couple | | <u> </u> |
| Ambient temper Power source for Component No. | rature (°C) or EUT: Manuf Fault | acturer, model | l/type, outpu | ut rating Fuse | .: Fu | N/A se | T-couple | | <u> </u> |
| Ambient temper Power source for Component No. | rature (°C) or EUT: Manuf Fault | acturer, model | l/type, outpu | ut rating Fuse | .: Fu | N/A se | T-couple | | <u> </u> |
| Ambient temper Power source for Component No. | rature (°C) or EUT: Manuf Fault | acturer, model | l/type, outpu | ut rating Fuse | .: Fu | N/A se | T-couple | | <u> </u> |
| Ambient temper Power source for Component No. | rature (°C) or EUT: Manuf Fault | acturer, model | l/type, outpu | ut rating Fuse | .: Fu | N/A se | T-couple | | <u> </u> |
| Ambient temper Power source for Component No. | rature (°C) or EUT: Manuf Fault | acturer, model | l/type, outpu | ut rating Fuse | .: Fu | N/A se | T-couple | | <u> </u> |

B.3

| | | | | , | 9 | | | | | |
|--|-----------------------|------------------|------------------|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | | IEC (| 62368-1 (e | d.2) | | | | |
| Clause | Red | quirement - | - Test | | | Result - | Remark | | | Verdict |
| | 1 | | | | | | | | | |
| Annex M | TA | BLE: Batte | eries | | | | | | | Р |
| The tests of | Ann | ex M are a | pplicable o | nly when appi | ropriate ba | ttery data | is not avai | lable | | N/A* |
| Is it possible | to ir | nstall the b | attery in a ı | reverse polarit | ty position? | · | : | | | N/A |
| | | Non-re | chargeable | batteries | | R | techargeal | ole batterie | es | |
| | | Discha | arging | Un- | Char | ging | Disch | arging | Reverse | ed charging |
| | | Meas. current | Manuf. Specs. | intentional charging | Meas. current | Manuf. Specs. | Meas. current | Manuf. Specs. | Meas. current | Manuf. Specs. |
| Max. current during norm condition | | | | | | | | | | |
| Max. currenduring fault condition | t | | | | | | | | | |
| | | | | | | | | | | |
| Test results: | | | | | | | | | | Verdict |
| - Chemical I | eaks | i | | | | | | | | |
| - Explosion | of the | e battery | | | | | | | | |
| - Emission o | of flar | me or expu | Ision of mo | lten metal | | | | | | |
| - Electric str | engtl | h tests of e | quipment a | after completion | on of tests | | | | | |
| Supplement | ary i | nformation | • | | | | | | ' | |
| * Approved | Approved battery used | | | | | | | | | |
| | | | | | | | | | | |

| Annex M.4 | TABLE: batteries | | itional safeguards for equipment containing secondary lithium N/A | | | | | | |
|---------------------------|---------------------|--|---|--------------|---|----------|-------|-------------|--|
| Batter | • | Test | conditions | Measurements | | | | Observation | |
| No. | | | | U | I (A) | Temp (C) | | | |
| | | Normal | | | | | | | |
| | | Abnormal | | | | | | | |
| S | | Single faul | t -SC/OC | | | | | | |
| | | Normal | | | | | | | |
| | | Abnormal | Abnormal | | | | | | |
| | | Single faul | t – SC/OC | | | | | | |
| Supplementa | ary Inform | nation: | | | · | | | | |
| Battery identification | | Charging at T _{lowest} (°C) | west | | Charging at T _{highest} (°C) | Obs | ervat | ion | |
| | | | | | | | | | |

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|--------|--------------------|-----------------|---------|--|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | | | | |

| Battery identification | Charging at T _{lowest} (°C) | Observation | Charging at T _{highest} (°C) | Observation | | | | | | | |
|------------------------|--|-------------|---|-------------|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Supplementary Int | Supplementary Information: | | | | | | | | | | |

| Annex Q.1 | TABLE: Circuits inte | ABLE: Circuits intended for interconnection with building wiring (LPS) | | | | | | | |
|-------------|--------------------------|--|---------|---------------------|-------|--------|--|--|--|
| Note: Measi | ured UOC (V) with all lo | ad circuits discon | nected: | | | • | | | |
| Output | Components | U _{oc} (V) | Isc | I _{sc} (A) | | S (VA) | | | |
| Circuit | | | Meas. | Limit | Meas. | Limit | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| T.2, T.3, T.4, T.5 | TAB | ABLE: Steady force test | | | | | | | |
|-----------------------|---------|-------------------------|-------------------|--------------|---------------------|-------|--------|--|--|
| Part/Locat | ion | Material | Thickness (mm) | Force (N) | Test Duration (sec) | Obser | vation | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Supplementa | ary inf | ormation: | | | | | | | |

| T.6, T.9 | TABI | LE: Impact tests | | | | N/A | | | | | |
|-------------|----------|----------------------------|-------------------|------------------------|-------------|-----|--|--|--|--|--|
| Part/Locat | tion | Material | Thickness (mm) | Vertical distance (mm) | Observation | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Supplementa | ary info | Supplementary information: | | | | | | | | | |

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|--------------------|--------------------|--|-----------------|---------|--|
| Clause | Requirement + Test | | Result - Remark | Verdict | |

| T.7 | TABLE: Drop tests | | | | | | |
|----------------------------|-------------------|----------|-------------------|------------------|-------------|--|--|
| Part/Location | | Material | Thickness (mm) | Drop Height (mm) | Observation | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Supplementary information: | | | | | | | |

| T.8 | TAB | BLE: Stress relief test | | | | | N/A |
|-------------|---------|-------------------------|-------------------|-----------------------------|-----------------|--------|--------|
| Part/Locati | ion | Material | Thickness (mm) | Oven Temperature (°C) | Duration (h) | Observ | ration |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Supplementa | ary inf | ormation: | | | | | |

Appendix 1: Photography



Front of EUT



Back of Unit

| IEC 62368-1 (ed.2) | | | | | | |
|--------------------|--------------------|-----------------|---------|--|--|--|
| Clause | Requirement + Test | Result - Remark | Verdict | | | |



Sensor mounted on PCB



Back of PCB