



CE LVD TEST REPORT

Prepared For	:	Cloudstore Limited Level 3, 32 Market Place, Viaduct, Auckland, New Zealand 1010
Trade Mark	:	Airconsole
Product Name	:	USB/WIFI Router
Model	:	Airconsole, Airconsole Mini, Airconsole XL
Prepared By	:	Shenzhen HUT Testing Technology Co.,Ltd 11F Baohe Building At The Intersection Of BaoAn Road And XiXiangRoad BaoAn District ShenZhen City
Test Date	:	Apr. 15 - Apr. 22, 2015
Date of Report	:	Apr. 22, 2015
Report No.	:	HUT11150415001LR

Note: The results detailed in this test report relate only to the specific sample(s) tested. This report is not to be reproduced except in full, without written approval from HUT Testing Technology

**TESTREPORT****EN60950****Information technology equipment –Safety****Part 1: General requirements****Testing laboratory**

Name .. : Shenzhen HUT Testing Technology Co.,Ltd
Address..... : 11F Baohe Building At The Intersection Of BaoAn Road And
XiXiangRoad BaoAn District ShenZhen City
Testing location..... : Shenzhen HUT Testing Technology Co.,Ltd

Client

Name... : Cloudstore Limited
Address..... : Level 3, 32 Market Place, Viaduct, Auckland, New Zealand 1010

Test specification

Standard : EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2: 2013
Test procedure..... : CE
Non-standard test method..... : N.A.

Test item

Description : USB/WIFI Router
Trademark..... : Airconsole
Model and/or type reference : Airconsole
Manufacture..... : Shenzhen Hwnet Times Tech Co., Ltd.
Address..... : A411 Mingyou Industrial Products Purchase Center, No.168
Baoyuan Road, Bao'an District Shenzhen
Rating(s) : 5V–1A Cass III

Particulars: test item vs. test requirements

Equipment mobility : Portable equipment
Operating condition : Continuous operation
Tested for IT power systems : No
IT testing, phase-phase voltage (V) : No
Class of equipment : Class III
Protection against ingress of water...	. : IPX0

Test case verdicts

Test case does not apply to the test object : N(A.)
Test item does meet the requirement..... : P(ass)
Test item does not meet the requirement..... : F(ail)

Testing

Date of receipt of test item	: Apr. 15, 2015
Date(s) of performance of test	: From Apr. 15, 2015 to Apr. 22, 2015

General remarks

This test report shall not be reproduced except in full without the written approval of the testing laboratory. The test results presented in this report relate only to the item tested.

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

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

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

Remark:

— The maximum ambient temperature of the product is 45°C.

— All test perform on model USB/WIFI Router.



Name and address of the testing laboratory : Shenzhen HUT Testing Technology Co.,Ltd

11F Baohe Building At The Intersection Of BaoAn Road And
XiXiang Road BaoAn District ShenZhen City

Date of Test:

Apr. 15 - Apr. 22, 2015

Prepared by(Engineer):

Kelly chen

Reviewer(Quality Manager):

Dick Zhang

Approved&Authorized Signer(Manager):

Irene



Copy of marking plate:**USB/WIFI Router**

Model No.: Airconsole

Rating: 5V  1A

Class III

Cloudstore Limited.

Made in China



Note: Due to the similar of rating label, Only above label is listed.

Summary of testing:

Rubbing for 15 s with a piece of cloth soaked with water. And a further 15 s with a piece of cloth soaked with petroleum.

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
1	GENERAL		---
1.5	Components		---
1.5.1	Comply with IEC 950 or relevant component standard	(see appended table 1.5.1)	P
1.5.2	Evaluation and testing of components		P
1.5.3	Thermal controls	No used	N
1.5.4	Transformers	No transformers	N
1.5.5	Interconnecting cables	No interconnecting cable provided.	N
1.5.6	Capacitors in primary circuits :	No primary circuits	N
1.5.7	Double or reinforced insulation bridged by components	No such components	N
1.5.7.1	General		N
1.5.7.2	Bridging capacitors		N
1.5.7.3	Bridging resistors		N
1.5.7.4	Accessible parts		N
1.5.8	Components in equipment for IT power systems	Not for IT power systems	N
1.6	Power interface		---
1.6.1	AC power distribution systems	No direct connected to AC power system.	N
1.6.2	Input current	(see appended table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment	Portable equipment	N
1.6.4	Neutral conductor	No neutral conductor	N
1.7	Marking and instructions		---
1.7.1	Power rating	See below for details	P
	Rated voltage(s) or voltage range(s) (V) :	5 Vdc	P
	Symbol for nature of supply for d.c. :	See page 2	P
	Rated frequency or frequency range (Hz) :	Dc input	N
	Rated current (A) :	1A	P
	Manufacturer's name/Trademark :	Cloudstore Limited	P
	Type/model :	Airconsole	P
	Symbol of Class II :	Not Class II equipment	N

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
	Other symbols :	Additional symbols/markings do not give rise to misunderstanding	P
	Certification marks :	CE marking	P
1.7.2	Safety instructions	Specification and installation instruction explain safe installation, operation, service, maintenance etc.	P
1.7.3	Short duty cycles	Continuous operation	N
1.7.4	Supply voltage adjustment :	Not connect to multiple rated voltage or frequencies	N
	Methods and means of adjustment; reference to installation instructions :		N
1.7.5	Power outlets on the equipment :	No outlets	N
1.7.6	Fuse identification :	No fuse used	N
1.7.7	Wiring terminals		N
1.7.7.1	Protective earthing and bonding terminals		N
1.7.7.2	Terminal for a.c. mains supply conductors		N
1.7.7.3	Terminal for d.c. mains supply conductors		N
1.7.8	Controls and indicators	No controls and indicators	N
1.7.8.1	Identification, location and marking :		N
1.7.8.2	Colours..... :		N
1.7.8.3	Symbols according to IEC 60417 :		N
1.7.8.4	Markings using figures :	No such marking	N
1.7.9	Isolation of multiple power sources :		N
1.7.10	IT power system	No IT power system	N
1.7.11	Thermostats and other regulating devices	No such parts	N
1.7.12	Language :	In English	P
1.7.13	Durability	The marking(s) withstand the required test. See table 1.7.13	P
1.7.14	Removable parts	No removable parts	N
1.7.15	Replaceable batteries		N
	Language..... :		N
1.7.16	Operator access with a tool :	There are no operator accessible areas with a tool defined.	N
1.7.17	Equipment for restricted access locations :		N
2	PROTECTION FROM HAZARDS		---

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
2.1	Protection from electric shock and energy hazards		P
2.1.1	Protection in OPERATOR access areas	No operator access to the equipment	N
2.1.1.1	Access to energized parts		N
	Test by inspection		N
	Test with test finger		N
	Test with test pin		N
	Test with test probe		N
2.1.1.2	Battery compartments		N
2.1.1.3	Access to ELV wiring		N
	Working voltage (V); distance (mm) through insulation		N
2.1.1.4	Access to hazardous voltage circuit wiring		N
2.1.1.5	Energy hazards		P
2.1.1.6	Manual controls		N
2.1.1.7	Discharge of capacitors in the primary circuit		N
	Time-constant (s); measured voltage (V)		—
2.1.2	Protection in service access areas	Unintentional contact with hazardous voltage is unlikely during service operations	P
2.1.3	Protection in restricted access locations		N
2.2	SELV circuits		---
2.2.1	General requirements		P
2.2.2	Voltages under normal conditions (V)	The voltages are less than 60Vdc or 42.4Vp	P
2.2.3	Voltages under fault conditions (V)... ..	The voltages are less than 120Vdc or 71Vp within 0.2sec	P
2.2.3.1	Separation by double or reinforced insulation (method 1)		N
2.2.3.2	Separation by earthed screen (method 2)		N
2.2.3.3	Protection by earthing of the SELV circuit (method 3)		N
2.2.4	Connection of SELV circuits to other circuits... ..	No such circuits	N
2.3	TNV circuits	(No TNV circuits)	N
2.3.1	Limits		N
	Type of TNV circuits		N

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Clause	Requirement - Test	Result - Remark	Verdict
2.3.2	Separation from other circuits and from accessible parts		N
	Insulation employed		N
2.3.3	Separation from hazardous voltages		N
	Insulation employed		N
2.3.4	Connection of TNV circuits to other circuits		N
	Insulation employed		N
2.3.5	Test for operating voltages generated externally		N
2.4	Limited current circuits		---
2.4.1	General requirements		N
2.4.2	Limit values		N
	Frequency (Hz)		N
	Measured current (mA).....		N
	Measured voltage (V)		N
	Measured capacitance (μ F)		N
2.4.3	Connection of limited current circuits to other circuits		N
2.5	Limited power sources		---
	Inherently limited output		N
	Impedance limited output		N
	Over current protective device limited output		N
	Regulating network limited output under normal operating and single fault condition		N
	Regulating network limited output under normal operating conditions and over current protective device limited output under single fault condition		N
	Output voltage (V), output current (A), apparent power (VA).....		N
	Current rating of over current protective device (A)		N
2.6	Provisions for earthing and bonding		---
2.6.1	Protective earthing	Class III equipment	N
2.6.2	Functional earthing		N
2.6.3	General		N
2.6.3.1	Protective earthing and protective bonding conductors		N
2.6.3.2	Size of protective earthing conductors		N

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
	Rated current (A), cross-sectional area (mm ²), AWG		N
2.6.3.3	Size of protective bonding conductors		N
	Rated current (A), cross-sectional area (mm ²), AWG		N
2.6.3.4	Rated current (A), type and nominal thread diameter (mm)		N
	Resistance (Ω) of earthing conductors and their terminations, test current (A)		N
2.6.3.5	Colour of insulation		N
2.6.4	Terminals		N
2.6.4.1	General		N
2.6.4.2	Protective earthing and bonding terminals		N
	Rated current (A), type and nominal thread diameter (mm)		---
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N
2.6.5	Integrity of protective earthing		N
2.6.5.1	Interconnection of equipment		N
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N
2.6.5.3	Disconnection of protective earth		N
2.6.5.4	Parts that can be removed by an operator		N
2.6.5.5	Parts removed during servicing		N
2.6.5.6	Corrosion resistance	See annex J	N
2.6.5.7	Screws for protective bonding		N
2.6.5.8	Reliance on telecommunication network	No network	N
2.7	Overcurrent and earth fault protection in primary circuits		---
2.7.1	Basic requirements		N
	Instructions when protection relies on building installation		N
2.7.2	Faults not covered in 5.3		N
2.7.3	Short-circuit backup protection		N
2.7.4	Number and location of protective devices		N
2.7.5	Protection by several devices		N
2.7.6	Warning to service personnel		N
2.8	Safety interlocks	(No safety interlock used)	---

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Clause	Requirement - Test	Result - Remark	Verdict
2.8.1	General principles		N
2.8.2	Protection requirements		N
2.8.3	Inadvertent reactivation		N
2.8.4	Fail-safe operation		N
2.8.5	Interlocks with moving parts		N
2.8.6	Overriding an interlock		N
2.8.7	Switches and relays in interlock systems		N
2.8.7.1	Contact gaps (mm):		N
2.8.7.2	Overload test		N
2.8.7.3	Endurance test		N
2.8.7.4	Electric strength test (V)		N
2.8.8	Mechanical actuators		N
2.9	Electrical insulation		---
2.9.1	Properties of insulating materials	No hygroscopic materials or natural rubber are used as insulation	P
2.9.2	Humidity conditioning		N
	Humidity (%):		--
	Temperature (°C):		--
2.9.3	Grade of insulation	Functional insulation	P
2.10	Clearances, creepage distances and distances through insulation		---
2.10.1	General		P
2.10.2	Determination of working voltage		N
2.10.3	Clearances		N
2.10.3.1	General		N
2.10.3.2	Clearances in primary circuit		N
2.10.3.3	Clearances in secondary circuits	(see appended table 2.10.3 and 2.10.4)	N
2.10.3.4	Measurement of transient levels		N
2.10.4	Creepage distances	(see appended table 2.10.3 and 2.10.4)	N
	CTI tests:		N
2.10.5	Solid insulation		N
2.10.5.1	Minimum distance through insulation	(see appended table 2.10.5)	N
2.10.5.2	Thin sheet material		N
	Number of layers (pcs):		N
	Electric strength test	(see appended table 5.2)	N

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Clause	Requirement - Test	Result - Remark	Verdict
2.10.5.3	Printed boards		N
	Distance through insulation		N
	Electric strength test for thin sheet insulating material		N
	Number of layers (pcs) :		N
2.10.5.4	Wound components		N
	Number of layers (pcs) :		N
	Two wires in contact inside component; angle between 45° and 90°		N
2.10.6	Coated printed boards		N
2.10.6.1	General		N
2.10.6.2	Sample preparation and preliminary inspection		N
2.10.6.3	Thermal cycling		N
2.10.6.4	Thermal ageing (°C) :		N
2.10.6.5	Electric strength test	(See appended table 5.2)	--
2.10.6.6	Abrasion resistance test		N
	Electric strength test	(See appended table 5.2)	--
2.10.7	Enclosed and sealed parts :		N
	Temperature $T_1=T_2 = T_{mra} - T_{amb} + 10K$ (°C)..... :		N
2.10.8	Spacings filled by insulating compound..... :		N
	Electric strength test		N
2.10.9	Component external terminations		N
2.10.10	Insulation with varying dimensions		N

3	WIRING, CONNECTIONS AND SUPPLY		---
3.1	General		P
3.1.1	Current rating and overcurrent protection	Cross sectional area of internal conductors is adequate for the current they are intended to carry. See also table 4.5.	P
3.1.2	Protection against mechanical damage	No sharp edges or corners	P
3.1.3	Securing of internal wiring	Only printed conductors are provided	N
3.1.4	Insulation of conductors	(See appended table 5.2)	N
3.1.5	Beads and ceramic insulators		N
3.1.6	Screws for electrical contact pressure	No any screw used	N
3.1.7	Non-metallic materials in electrical connections		N
3.1.8	Self-tapping and spaced thread screws		N

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Clause	Requirement - Test	Result - Remark	Verdict
3.1.9	Termination of conductors		N
	10 N pull test		N
3.1.10	Sleeving on wiring		N
3.2	Connection to a.c. mains supplies		---
3.2.1	Means of connection :		N
3.2.1.1	Connection to an a.c. mains supply		N
3.2.1.2	Connection to an d.c. mains supply		N
3.2.2	Multiple supply connections		N
3.2.3	Permanently connected equipment		N
	Number of conductors, diameter (mm) of cable and conduits :		N
3.2.4	Appliance inlets		N
3.2.5	Power supply cords		N
3.2.5.1	AC power supply cords		N
	Type :		N
	Rated current (A), cross-sectional area (mm ²), AWG :		N
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief		N
	Mass of equipment (kg), pull (N) :		N
	Longitudinal displacement (mm) :		--
3.2.7	Protection against mechanical damage		N
3.2.8	Cord guards		N
	D (mm); test mass (g) :		N
	Radius of curvature of cord (mm)..... :		N
3.2.9	Supply wiring space		N
3.3	Wiring terminals for connection of external conductors		---
3.3.1	Wiring terminals		N
3.3.2	Connection of non-detachable power supply cords		N
3.3.3	Screw terminals		N
3.3.4	Conductor sizes to be connected		N
	Rated current (A), cord/cable type, cross-sectional area (mm ²) :		---
3.3.5	Wiring terminal design		N
	Rated current (A), type and nominal thread diameter (mm) :		---

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
3.3.6	Wiring terminals design		N
3.3.7	Grouping of wiring terminals		N
3.3.8	Stranded wire		N
3.4	Disconnection from the a.c. mains supply		---
3.4.1	General requirement		N
3.4.2	Disconnect devices		N
3.4.3	Permanently connected equipment		N
3.4.4	Parts which remain energized		N
3.4.5	Switches in flexible cords		N
3.4.6	Single-phase equipment		N
3.4.7	Three-phase equipment		N
3.4.8	Switches as disconnect devices		N
3.4.9	Plugs as disconnect devices		N
3.4.10	Interconnected equipment		N
3.4.11	Multiple power sources		N
3.5	Interconnection of equipment		---
3.5.1	General requirements		N
3.5.2	Types of interconnection circuits :		N
3.5.3	ELV circuits as interconnection circuits		N
4	PHYSICAL REQUIREMENTS		---
4.1	Stability		N
	Angle of 10°		N
	Test: force (N)..... :		N
4.2	Mechanical strength		---
4.2.1	General	The equipment is mounted inside the enclosure of PC.	P
4.2.2	Steady force test, 10 N		N
4.2.3	Steady force test, 30 N		N
4.2.4	Steady force test, 250 N		N
4.2.5	Impact test		N
	Fall test		N
	Swing test		---
4.2.6	Drop test		P
4.2.7	Stress relief		N

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
4.2.8	Cathode ray tubes	(see separate test report or attached certificate)	N
	Picture tube separately certified ... : :		N
4.2.9	High pressure lamps		N
4.2.10	Wall or ceiling mounted equipment; force (N) ... : :		N
4.3	Design and construction		---
4.3.1	Edges and corners	No sharp edges or corners	P
4.3.2	Handles and manual controls; force (N) : :		N
4.3.3	Adjustable controls		N
4.3.4	Securing of parts	Mechanical fixing in such a way designed that they will withstand mechanical stress occurring in normal use.	P
4.3.5	Connection of plugs and sockets		N
4.3.6	Direct plug-in equipment		N
	Dimensions(mm) of mains plug for direct plug-in.: :		N
	Torque and pull test of mains plug for direct plug-in; torque(Nm); pull(N) ... : :		--
4.3.7	Heating elements in earthed equipment	No heating elements	N
4.3.8	Batteries		P
4.3.9	Oil and grease		N
4.3.10	Dust, powders, liquids and gases		N
4.3.11	Containers for liquids or gases	Not used	N
4.3.12	Flammable liquids..... : :		N
	Quantity of liquid (l) ... : :		N
	Flash point (°C).... : :		N
4.3.13	Radiation; type of radiation : :	The equipment does not generate Ionizing, or Laser radiation	N
4.3.13.1	General		N
	Ionizing radiation		N
	Measured radiation (pA/kg) : :		-
	Measured high-voltage (kV) : :		-
	Measured focus voltage (kV) : :		-
	CRT markings ... : :		N
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N
	Part, property, retention after test, flammability classification : :		N

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
4.3.13.4	Human exposure to ultraviolet (UV) radiation		N
4.3.13.5	Laser (including LEDs)	No leds	N
	Laser class		--
4.3.13.6	Other types		N
4.4	Protection against hazardous moving parts	(No moving parts)	---
4.4.1	General		N
4.4.2	Protection in operator access areas		N
4.4.3	Protection in restricted access locations		N
4.4.4	Protection in service access areas		N
4.5	Thermal requirements		---
4.5.1	Temperature rises	(See appended table 4.5.1)	P
	Normal load condition per Annex L		P
4.5.2	Resistance to abnormal heat		N
4.6	Openings in enclosures		---
4.6.1	Top and side openings	No openings on the side	N
	Dimensions (mm)		N
4.6.2	Bottoms of fire enclosures		N
	Construction of the bottom	No openings on the bottom	N
4.6.3	Doors or covers in fire enclosures		N
4.6.4	Openings in transportable equipment		N
4.6.5	Adhesives for constructional purposes		N
	Conditioning temperature (°C)/time (weeks)		N
4.7	Resistance to fire		---
4.7.1	Reducing the risk of ignition and spread of flame		P
	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	P
	Method 2, application of all of simulated fault condition tests	(see appended table 5.3)	N
4.7.2	Conditions for a fire enclosure		---
4.7.2.1	Parts requiring a fire enclosure		N
4.7.2.2	Parts not requiring a fire enclosure		N
4.7.3	Materials		---
4.7.3.1	General		N
4.7.3.2	Materials for fire enclosures		N

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
4.7.3.3	Materials for components and other parts outside fire enclosures		N
4.7.3.4	Materials for components and other parts inside fire enclosures		N
4.7.3.5	Materials for air filter assemblies		N
4.7.3.6	Materials used in high-voltage components		N
5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		---
5.1	Touch current and protective conductor current		---
5.1.1	General		N
5.1.2	Equipment under test (EUT)		N
5.1.3	Test circuit		N
5.1.4	Application of measuring instrument		N
5.1.5	Test procedure		N
5.1.6	Test measurements		N
	Test voltage (V)		N
	Measured touch current (mA)		--
	Max. allowed touch current (mA)		--
	Measured protective conductor current (mA)		N
	Max. allowed protective conductor current (mA) :		N
5.1.7	Equipment with touch current exceeding 3.5 mA ..		N
5.1.8	Touch currents to and from telecommunication networks		N
5.1.8.1	Limitation of the touch current to a telecommunication network		N
	Test voltage (V)		N
	Measured current (mA)		N
	Max. allowed current (mA)		N
5.1.8.2	Summation of touch currents from telecommunication networks ...		N
5.2	Electric strength		---
5.2.1	General		N
5.2.2	Test procedure		N
5.3	Abnormal operating and fault conditions		---
5.3.1	Protection against overload and abnormal operation		N

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

5.3.2	Motors	(see appended Annex B)	N
5.3.3	Transformers	(see appended Annex C)	N
5.3.4	Functional insulation :		P
5.3.5	Electromechanical components		N
5.3.6	Simulation of faults		P
5.3.7	Unattended equipment		P
5.3.8	Compliance criteria for abnormal operating and fault conditions		P

6	CONNECTION TO TELECOMMUNICATION NETWORKS		---
6.1	Protection of telecommunication network service personnel, and users of other equipment connected to the network, from hazards in the equipment		N
6.1.1	Protection from hazardous voltages		N
6.1.2	Separation of the telecommunication network from earth		N
6.1.2.1	Requirements		N
	Test voltage (V) :		N
	Current in the test circuit (mA) :		N
6.1.2.2	Exclusions :		N
6.2	Protection of equipment users from over voltages on telecommunication networks		---
6.2.1	Separation requirements		N
6.2.2	Electric strength test procedure		N
6.2.2.1	Impulse test		N
6.2.2.2	Steady-state test		N
6.2.2.3	Compliance criteria		N

6.3	Protection of telecommunication wiring system from overheating		---
	Max. output current (A) :		N
	Current limiting method :		N

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		---
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
7.2	Protection of equipment users from overvoltages on the cable distribution system		N
7.3	Insulation between primary circuits and cable distribution systems		N
7.3.1	General		N
7.3.2	Voltage surge test		N
7.3.3	Impulse test		N

A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		---
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		---
A.1.1	Samples, material :		N
	Wall thickness (mm) :		N
A.1.2	Conditioning of samples; temperature (°C)... .. :		N
	Mounting of samples :		N
A.1.4	Test flame		N

A.1.5	Test procedure		N
A.1.6	Compliance criteria		N
	Sample 1 burning time (s) :		N
	Sample 2 burning time (s) :		N
	Sample 3 burning time (s) :		N
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)		---
A.2.1	Samples, material... .. :		N
	Wall thickness (mm) :		N
A.2.6	Compliance criteria		N
	Sample 1 burning time (s) :		N
	Sample 2 burning time (s) :		N
	Sample 3 burning time (s) :		N
A.2.7	Alternative test acc. to IEC 60695-2-2, cl. 4, 8		N
	Sample 1 burning time (s) :		N
	Sample 2 burning time (s) :		N
	Sample 3 burning time (s) :		N

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Clause	Requirement - Test	Result - Remark	Verdict
A.3	High current arcing ignition test (see 4.7.3.2)		---
A.3.1	Samples, material		N
	Wall thickness (mm)		N
A.3.5	Compliance criteria		N
	Sample 1 number of arcs to ignition (pcs)		N
	Sample 2 number of arcs to ignition (pcs)		N
	Sample 3 number of arcs to ignition (pcs)		N
	Sample 4 number of arcs to ignition (pcs)		N
	Sample 5 number of arcs to ignition (pcs)		N
A.4	Hot wire ignition test (see 4.7.3.2)		---
A.4.1	Samples, material.....		N
	Wall thickness (mm)		N
A.4.5	Compliance criteria		N
	Sample 1 ignition time (s)		N
	Sample 2 ignition time (s)		N
	Sample 3 ignition time (s)		N
	Sample 4 ignition time (s)		N
	Sample 5 ignition time (s)		N
A.5	Hot flaming oil test (see 4.6.2)		---
A.6	Flammability tests for classifying materials V-0, V-1 or V-2		---
A.6.1	Samples, material.....		N
	Wall thickness (mm)		N
A.6.5	Compliance criteria		N
A.6.6	Permitted retest		N
A.7	Flammability test for classifying foamed materials HF-1, HF-2 or HFB		---
A.7.1	Sample, material.....		N
	Wall thickness (mm)		N
A.7.4	Compliance criteria		N
A.7.5	Compliance criteria, HF-2		N
A.7.6	Compliance criteria, HF-1		N
A.7.7	Compliance criteria, HBF		N
A.7.8	Permitted retest, HF-1 or HF-2		N
A.7.9	Permitted retest, HBF		N
A.8	Flammability test for classifying materials HB		---
A.8.1	Samples, material.....		N
	Sample thickness (mm).....		N
A.8.2	Conditioning of samples; temperature (°C)		N

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Clause	Requirement - Test	Result - Remark	Verdict
A.8.4	Test procedure		N
A.8.5	Compliance criteria		N
A.8.6	Permitted retest		N
A.9	Flammability test for classifying materials 5V		---
A.9.1	Samples, material..... :		N
	Sample thickness (mm)..... :		N
A.9.4	Test procedure, test bars		N
A.9.5	Test procedure, test plaques		N
A.9.6	Compliance criteria		N
A.9.7	Permitted retest		N
A.10	Stress relief conditioning (see 4.2.7)		---
	Temperature (°C) :		N
B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		---
B.1	General requirements	No motor used	N
	Position :		N
	Manufacturer :		N
	Type :		N
	Rated values :		N
B.2	Test conditions		N
B.3	Maximum temperatures		N
B.4	Running overload test		N
B.5	Locked-rotor overload test		N
	Test duration (days) :		N
	Electric strength test: test voltage (V) :		N
B.6	Running overload test for DC motors in secondary circuits		N
B.7	Locked-rotor overload test for DC motor in secondary circuits		---
B.7.1	Test procedure		N
B.7.2	Alternative test procedure; test time (h)..... :		N
B.7.3	Electric strength test		N
B.8	Test for motors with capacitors		N
B.9	Test for three-phase motors		N
B.10	Test for series motors		N
	Operating voltage (V) :		N
C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		---

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Clause	Requirement - Test	Result - Remark	Verdict
	Position		N
	Manufacturer		N
	Type		N
	Rated values		N
	Method of protection		N
C.1	Overload test	(see appended table 5.3)	N
C.2	Insulation	(see appended table 5.2)	N
	Protection from displacement of windings		N
D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		---
D.1	Measuring instrument		N
D.2	Alternative measuring instrument		N
E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)		N
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10)		N
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		---
G.1	Summary of the procedure for determining minimum clearances		---
G.2	Determination of mains transient voltage (V)		N
G.3	Determination of telecommunication network transient voltage (V).....		N
G.4	Determination of required withstand voltage (V) ..		N
G.5	Measurement of transient levels (V).....		N
G.6	Determination of minimum clearances		N
H	ANNEX H, IONIZING RADIATION (see 4.3.13)		---
	Ionizing radiation		N
	Measured radiation (mR/h)		N
	Measured high-voltage (kV)		N
	Measured focus voltage (kV)		N
	CRT markings		N
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		---
	Metal used		N

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Clause	Requirement - Test	Result - Remark	Verdict

K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)	---	
K.1	Making and breaking capacity		N
K.2	Thermostat reliability; operating voltage (V) :		N
K.3	Thermostat endurance test; operating voltage (V) :		N
K.4	Temperature limiter endurance; operating voltage (V) :		N
K.5	Thermal cut-out reliability		N
K.6	Stability of operation		N

L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		P
L.1	Typewriters		N
L.2	Adding machines and cash registers	N	
L.3	Erasers		N
L.4	Pencil sharpeners		N
L.5	Duplicators and copy machines		N
L.6	Motor-operated files		N
L.7	Other business equipment	Continuous operation with data running	P



M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		---
M.2	Method A		N
M.3	Method B		N
M.3.1	Ringling signal		N
M.3.1.1	Frequency (f) :		N
M.3.1.2	Voltage (V) :		N
M.3.1.3	Cadence; time (s), voltage (V) :		N
M.3.1.4	Single fault current (mA) :		N
M.3.2	Tripping device and monitoring voltage :		N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N
M.3.2.2	Tripping device		N
M.3.2.3	Monitoring voltage (V)..... :		N

N	ANNEX N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)		N
N.1	ITU-T impulse test generators		N

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Clause	Requirement - Test	Result - Remark	Verdict
N.2	IEC 60065 impulse test generator		N
	C: delete all the "country" notes that appear on the following pages of the reference document (IEC 60950:1999): 85, 91, 99, 103, 117, 119, 123, 125, 149, 171, 213, 215, 219, 251, 283, 325, 327, 331, 333 and 407		N
P	ANNEX P, NORMATIVE REFERENCES		N
	A (CH, SE): add the following: NOTE: Switches containing mercury such as thermostats, relays and level controllers are not allowed		N
Q	ANNEX Q, BIBLIOGRAPHY		N
	S (NO): class I pluggable equipment type A intended for connection to other equipment or a communication network shall, if safety relies on connection to protective earth, require a marking stating that the equipment must be connected to an earthed mains socket outlet		N
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)		N
R.2	Reduced clearances (see 2.10.3)		N
	A (DK): Class II equipment shall not be fitted with socket-outlets for providing power to other equipment		N
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N
S.1	Test equipment		N
S.2	Test procedure		N
S.3	Examples of waveforms during impulse testing		N
	S (NO): requirements according to this annex, sub-clauses 1.7.2 and 6.1.2.1 apply		N
T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N
	S (NO): requirements according to this annex, sub-clauses 1.7.2 and 6.1.2.1 apply		N
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		N
	S (NO): due to the IT power distribution system used (see annex V, figure V.7), the a.c. mains supply voltage is considered to be equal to the line-to-line voltage, and will remain at 230 V in case of a single earth fault		N

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Clause	Requirement - Test	Result - Remark	Verdict
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		N
V.1	Introduction		N
V.2	TN power distribution systems		N
	S (GB): apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a "standard plug" in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations. NOTE: "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug		N
W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N
W.1	Touch current from electronic circuits		N
W.1.2	Earthed circuits		N
W.2	Interconnection of several equipments		N
W.2.1	Isolation		N
W.2.2	Common return, isolated from earth		N
W.2.3	Common return, connected to protective earth		N
	S (IE): direct plug-in equipment is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997		N
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N
X.1	Determination of maximum input current		N
X.2	Overload test procedure		N
	S (NO): due to the IT power distribution system used (see annex V, figure V.7), the a.c. mains supply voltage is considered to be equal to the line-to-line voltage, and will remain at 230 V in case of a single earth fault		N
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		N
Y.1	Test apparatus		N
Y.2	Mounting of test samples		N
Y.3	Carbon-arc light-exposure apparatus		N
Y.4	Xenon-arc light exposure apparatus		N

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Clause	Requirement - Test	Result - Remark	Verdict
	C: Add the following notes for the standards indicated: IEC 60127 series NOTE: Harmonized as EN 60127 series (not modified) IEC 60269-2-1 NOTE: Harmonized as HD 630.2.1 S2:1997 (modified) IEC 60529 NOTE: Harmonized as EN 60529:1991 (not modified) IEC 61032 NOTE: Harmonized as EN 61032:1998 (not modified)		---
	CENELEC COMMON MODIFICATIONS [C], SPECIAL NATIONAL CONDITIONS [S] AND A-DEVIATIONS (NATIONAL DEVIATIONS) [A] (EN 60950-1:2001, Annex ZB and Annex ZC)		---
General	C: Delete all the "country" notes in the reference document according to the following list: 1.1.5 Note 2 1.5.8 Note 2 1.6.1 Note 1.7.2 Note 4 1.7.12 Note 2 2.6 Note 2.2.3 Note 2.2.4 Note 2.3.2 Note 2, 7, 8 2.3.3 Note 1, 2 2.3.4 Note 2,3 2.7.1 Note 2.10.3.1 Note 4 3.2.1.1 Note 3.2.3 Note 1, 2 3.2.5.1 Note 2 4.3.6 Note 1,2 4.7.2.2 Note 4.7.3.1 Note 2 6.1.2.1 Note 6.1.2.2 Note 6.2.2 Note 6.2.2.1 Note 2 6.2.2.2 Note 7 Note 4 7.1 Note G2.1 Note 1, 2 Annex H Note 2		N
1.2.4.1	S (DK): Certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		N
1.5.1	A (SE, Ordinance 1990:944 and CH, Ordinance on environmentally hazardous substances SR 814.013, Annex 3.2, Mercury): Add NOTE - Switches containing mercury such as thermostats, relays and level controllers are not allowed.		N
1.5.8	S (NO): Due to the IT power system used (see annex V, Fig. V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).		N
1.7.2	S (FI, NO, SE): CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows:		N
	FI: "Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan"		N
	NO: "Apparatet må tilkoples jordet stikkontakt"		N
	SE: "Apparaten skall anslutas till jordat uttag"		N

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Clause	Requirement - Test	Result - Remark	Verdict
	<p>A (DK, Heavy Current Regulations): Supply cords of class I equipment, which is delivered without a plug, must be provided with a visible tag with the following text:</p> <p>Vigtigt! Lederen med grøn/gul isolation må kun tilsluttes en klemme mærket</p> <p> eller </p> <p>If essential for the safety of the equipment, the tag must in addition be provided with a diagram which shows the connection of the other conductors, or be provided with the following text: "For tilslutning af de øvrige ledere, se medfølgende installationsvejledning."</p>		N
1.7.5	S (DK): Socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For stationary equipment the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.		N
1.7.5	A (DK, Heavy Current Regulations): CLASS II EQUIPMENT shall not be fitted with socket-outlets for providing power to other equipment.		N
1.7.12	<p>A (DE, Gesetz über technische Arbeitsmittel (Gerätesicherheitsgesetz) [Law on technical labour equipment {Equipment safety law}], of 23rd October 1992, Article 3, 3rd paragraph, 2nd sentence, together with the "Allgemeine Verwaltungsvorschrift zur Durchführung des Zweiten Abschnitts des Gerätesicherheitsgesetzes" [General administrative regulation on the execution of the Second Section of the Equipment safety law], of 10th January 1996, article 2, 4th paragraph item 2):</p> <p>Directions for use with rules to prevent certain hazards for (among others) maintenance of the technical labour equipment, also for imported technical labour equipment shall be written in the German language.</p> <p>NOTE: Of this requirement, rules for use even only by service personnel are not exempted.</p>		N
1.7.15	A (CH, Ordinance on environmentally hazardous substances SR 814.013): Annex 4.10 of SR 814.013 applies for batteries.		N

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Clause	Requirement - Test	Result - Remark	Verdict
	<p>A (DE, Regulation on protection against hazards by X-ray, of 8th January 1987, Article 5[Operation of X-ray emission source], clauses 1 to 4):</p> <p>a) A licence is required by those who operate an X-ray emission source.</p> <p>b) A licence in accordance with Cl. 1 is not required by those who operate an X-ray emission source on which the electron acceleration voltage does not exceed 20 kV if</p> <ol style="list-style-type: none"> 1) the local dose rate at a distance of 0,1 m from the surface does not exceed 1 iSv/h and 2) it is adequately indicated on the X-ray emission source that <ol style="list-style-type: none"> i) X-rays are generated and ii) the electron acceleration voltage must not exceed the maximum value stipulated by the manufacturer or importer. <p>c) A licence in accordance with Cl. 1 is also not required by persons who operate an X-ray emission source on which the electron acceleration voltage exceeds 20 kV if</p> <ol style="list-style-type: none"> 1) the X-ray emission source has been granted a type approval and 2) it is adequately indicated on the X-ray emission source that <ol style="list-style-type: none"> i) X-rays are generated ii) the device stipulated by the manufacturer or importer guarantees that the maximum permissible local dose rate in accordance with the type approval is not exceeded and iii) the electron acceleration voltage must not exceed the maximum value stipulated by the manufacturer or importer. <p>d) Furthermore, a licence in accordance with Cl. 1 is also not required by persons who operate X-ray emission sources on which the electron acceleration voltage does not exceed 30 kV if</p> <ol style="list-style-type: none"> 1) the X-rays are generated only by intrinsically safe CRTs complying with Enclosure III, No. 6, and 2) the values stipulated in accordance with Enclosure III, No. 6.2 are limited by technical measures and specified in the device. 		
2.2.4	S (NO): Requirements according to this annex,N 1.7.2 and 6.1.2.1 apply.		

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Clause	Requirement - Test	Result - Remark	Verdict
2.3.2	S (NO): Requirements according to this annex, 6.1.2.1 apply.		N
2.3.3 and 2.3.4	S (NO): Requirements according to this annex, 1.7.2 and 6.1.2.1 apply.		N
2.6.3.3	S (GB): The current rating of the circuit shall be taken as 13 A, not 16 A.		N
2.7.1	<p>C: Replace the subclause as follows:</p> <p><i>Basic requirements</i></p> <p>To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):</p> <p>a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;</p> <p>b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;</p> <p>c) it is permitted for PLUGGABLE EQUIPMENT TYPE B OR PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.</p> <p>If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.</p>		N
	S (GB): To protect against excessive currents and short-circuits in the PRIMARY CIRCUIT OF DIRECT PLUG-IN EQUIPMENT, protective device shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT.		N
2.7.2	C: Void.		N
2.10.2	C: Replace in the first line "(see also 1.4.7)" by "(see also 1.4.8)".		N

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Clause	Requirement - Test	Result - Remark	Verdict
2.10.3.1	S (NO): Due to the IT power distribution system used (see annex V, Fig. V.7), the A.C. MAINS SUPPLY voltage is considered to be equal to the line-to-line voltage and will remain at 230 V in case of a single earth fault		N
3.2.1.1	<p>S (CH): Supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:</p> <p>SEV 6532-2.1991, Plug type 15, 3P+N+PE 250/400 V, 10 A SEV 6533-2.1991, Plug type 11, L+N 250 V, 10 A SEV 6534-2.1991, Plug type 12, L+N+PE 250 V, 10 A</p> <p>In general, EN 60309 applies for plugs for currents exceeding 10A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:</p> <p>SEV 5932-2.1998, Plug type 25, 3L+N+PE 230/400 V, 16 A SEV 5933-2.1998, Plug type 21, L+N 250 V, 16 A SEV 5934-2.1998, Plug type 23, L+N+PE 250 V, 16 A</p>		N
	<p>S (DK): Supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1.</p> <p>CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.</p> <p>If ply-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.</p>		N

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Clause	Requirement - Test	Result - Remark	Verdict
	<p>S (ES): Supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.</p> <p>Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.</p> <p>CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994.</p> <p>If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.</p>		N
	<p>S (GB): Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Socket etc. (Safety) Regulations 1994, unless exempted by those regulations.</p> <p>NOTE - 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.</p>		N
	<p>S (IE): Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.</p>		N
3.2.3	C: Delete Note 1 and in Table 3A, delete the conduit sizes in parentheses.		N

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Clause	Requirement - Test			Result - Remark	Verdict
3.2.5.1	C: Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2". In Table 3B, replace the first four lines by the following: Up to and including 6				

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Clause	Requirement - Test	Result - Remark	Verdict
6.1.2.1	<p>S (FI, NO, SE): Add the following text between the first and second paragraph:</p> <p>If this insulation is solid, including insulation forming part of a component, it shall at least consist of either</p> <ul style="list-style-type: none"> - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. <p>If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES AND CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition</p> <ul style="list-style-type: none"> - passes the tests and inspection criteria of 2.10.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.7 shall be performed using 1,5 kV), and - is subject to ROUTING TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV. <p>It is permitted to bridge this insulation with a capacitor complying with EN 132400:1994, subclass Y2.</p> <p>A capacitor classified Y3 according to EN 132400:1994, may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> - the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 132400, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950:2000, 6.2.2.1; 		N
	<ul style="list-style-type: none"> - the additional testing shall be performed on all the test specimens as described in EN 132400; - the impulse test of 2,5 kV is to be performed before the endurance test in EN 132400, in the sequence of tests as described in EN 132400. 		N

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Clause	Requirement - Test	Result - Remark	Verdict
6.1.2.2	S (FI, NO, SE): The exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT and PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a service person.		N
7.1	S (FI, NO, SE): Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply with the term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.		N
G.2.1	S (NO): Due to the IT power distribution system used (see annex V, Fig. V.7), the A.C. MAINS SUPPLY voltage is considered to be equal to the line-to-line voltage, and will remain at 230 V in case of a single earth fault.		N
Annex H	C: Replace the last paragraph of this annex by: At any point 10 cm from the surface of the operator access area, the dose rate shall not exceed 1 μ Sv/h (0,1 mR/h) (see note). Account is taken of the background level. Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete Note 2.		N
Annex P	C: Replace the text of this annex by: See annex ZA.		N
Annex Q	C: Replace the title of IEC 61032 by "Protection of persons and equipment by enclosures - Probes for verification". Add the following notes for the standards indicated: IEC 60127 NOTE Harmonized as EN 60127 (Series) (not modified) IEC 60269-2-1 NOTE Harmonized as HD 630.2.1 S4:2000 (modified) IEC 60529 NOTE Harmonized as EN 60529:1991 (not modified) IEC 61032 NOTE Harmonized as EN 61032:1998 (not modified) IEC 61140 NOTE Harmonized as EN 61140:2001 (not modified) ITU-T Recommendation K.31 NOTE in Europe, the suggested document is EN 50083-1.		---

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
Annex ZA	C: NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR RELEVANT EUROPEAN PUBLICATIONS		N
	This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).		
	NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.		
	—	IEC 60050-151	
	—	IEC 60050-195	
	EN 60065:1998 + corr. June 1999	IEC 60065 (mod):1998	
	EN 60073:1996	IEC 60073:1996	
	HD 566 S1:1990	IEC 60085:1984	
	HD 214 S2:1980	IEC 60112:1979	
	HD 611.4.1.S1:1992	IEC 60216-4-1:1990	
	HD 21 ¹⁾ Series	IEC 60227 (mod) Series	
	HD 22 ²⁾ Series	IEC 60245 (mod) Series	
	EN 60309 Series	IEC 60309 Series	
	EN 60317-43:1997	IEC 60317-43:1997	
	EN 60320 Series	IEC 60320 (mod) Series	
	HD 384.3 S2:1995	IEC 60364-3 (mod):1993	
	HD 384.4.41 S2:1996	IEC 60364-4-41 (mod):1992 ³⁾	
	EN 132400:1994 ⁴⁾	IEC 60384-14:1993	
	+ A2:1998 + A3:1998 + A4:2001		
	EN 60417-1	IEC 60417-1	
	HD 625.1 S1:1996 + corr. Nov. 2096	IEC 60664-1 (mod):1992	
	EN 60695-2-2:1994	IEC 60695-2-2:1991	
	EN 60695-2-11:2001	IEC 60695-2-11:2000	
	—	IEC 60695-2-20:1995	
	—	IEC 60695-10-2:1995	
	—	IEC 60695-11-3:2000	
	—	IEC 60695-11-4:2000	
	EN 60695-11-10:1999	IEC 60695-11-10:1999	
	EN 60695-11-20:1999	IEC 60695-11-20:1999	
	EN 60730-1:2000	IEC 60730-1:1999 (mod)	
	EN 60825-1:1994 + corr. Febr. 1995 + A11:1996 + corr. July 1997	IEC 60825-1:1993	
	EN 60825-2:2000	IEC 60825-2:2000	
	—	IEC 60825-9:1999	
	EN 60851-3:1996	IEC 60851-3:1996	
	EN 60851-5:1996	IEC 60825-5:1996	
	EN 60851-6:1996	IEC 60851-6:1996	
	—	IEC 60885-1:1987	
	EN 60990:1999	IEC 60990:1999	
	—	IEC 61058-1:2000	
	EN 61965:2001	IEC 61965:2000	
	EN ISO 178:1996	ISO 178:1993	
EN ISO 179 Series	ISO 179 Series		
EN ISO 180:2000	ISO 180:1993		

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Clause	Requirement - Test	Result - Remark	Verdict
	—	ISO 261:1998	
	—	ISO 262:1998	
	EN ISO 527 Series	ISO 527 Series	
	—	ISO 386:1984	
	EN ISO 4892 Series	ISO 4892 Series	
	—	ISO 7000:1989	
	EN ISO 8256:1996	ISO 8256:1990	
	—	ISO 9772:1994	
	EN ISO 9773:1998	ISO 9773:1998	
	—	ITU-T:1988 Recommendation K.17	
	—	ITU-T:2000 Recommendation K.21	
	1) The HD 21 series is related to, but not directly equivalent with the IEC 60227 series 2) The HD 22 series is related to, but not directly equivalent with the IEC 60245 series 3) IEC 60364-4-41:1992 is superseded by IEC 60364-4-41:2001 4) EN 132400, Sectional Specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains (Assessment level D), and its amendments are related to, but not directly equivalent to IEC 60384-14		
ZX	PROTECTION AGAINST EXCESSIVE SOUND PRESSURE FROM PERSONAL MUSIC PLAYERS		---
ZX.1	GENERAL	No personal music players	N
	This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players.		N
Zx.2	Equipment requirements		N
	No safety provision is required for equipment that complies with the following:		N
	– equipment provided as a package (personal music player with its listening device), where the acoustic output $L_{Aeq,Tis} \leq 85$ dBA measured while playing the fixed “programme simulation noise” as described in EN 50332-1; and		N
	– a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed “programme simulation noise” as described in EN 50332-1.		N
Zx.3	Warning		N
	The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following:		N
	– the symbol of Figure 1 with a minimum height of 5 mm; and		N

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict
	– the following wording, or similar:		N
Zx.4	Requirements for listening devices (headphones and earphones)		N
Zx.4.1	Wired listening devices with analogue input		N
	With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed “programme simulation noise” described in EN 50332-2 shall be ≥ 75 mV.		N
Zx.4.2	Wired listening devices with digital input		N
	With any playing device playing the fixed “programme simulation noise” described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.		N
Zx.4.3	Wireless listening devices		N
	-with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and		N
	– respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and		N
	– with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above-mentioned programme simulation noise,		N
Zx.5	Measurement methods		N
	Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s.		N

EN 60950-1			
Clause	Requirement - Test	Result - Remark	Verdict

1.5.1	TABLE: list of critical components					P
object/part No.	manufacturer/trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾	
PCB	Various	---	v-0 130°C	UL 796	UL	
Enclosure	Various	Various	Metal Thickness min.1.5 mm	UL 94	UL	
LI-battery	Various	Airconsole	3.7V 4620mAh	--	Test with appliance	

1.6.2	TABLE: electrical data (at normal conditions)						N
Model #	U (V)	Rated U(V)	Rated I(mA)	I (mA)	Hz	condition/status	
					--		

1.7.13	TABLE: durability of marking test		P
Checked by	Time		Result
Water	15s		No any curling and still legibility
Petroleum spirit	15s		No any curling and still legibility

2.4.2	TABLE: limited current circuit measurement					N
Location	Voltage (V)	Current (mA)	Freq. (Hz)	Limit (mA)	Comments	

5	TABLE: limited power source measurement			N
Condition	Output voltage (Uoc) (V)	Output current (Isc) (A)	Apparent power (S) (VA)	

Uoc: max output voltage, Isc: max. output current with any non-capacitive load, including a short circuit, measured 60s after application of the load, S(VA): max. output VA with any non-capacitive load, including a short circuit, measured 60s after application of the load

Comment:

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements					N
clearance cl and creepage distance dcr at/of:	Up (V)	U r.m.s. (V)	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)

2.10.5	TABLE: distance through insulation measurements				N
distance through insulation di at/of:	U peak (V)	test voltage (V)	required di (mm)	di (mm)	
1m	Side, top, bottom, back enclosure, on a hard wooden surface.		No damage for enclosure, hi-pot test no breakdown, no hazard		

4.5	TABLE: temperature measurements			P
	test voltage (V)	DC5V		—
	t1 (°C)	25.4		—
	t2 (°C)	25.6		—
temperature of part/at:		T (°C)	required T (°C)	
PCB near main IC		57.2	130	
Li-ion battery surface		44.6	80	
Enclosure outside		51.7	75	

4.5.2	TABLE: ball pressure test of thermoplastics			N
	required impression diameter (mm)			---
part		test temperature (°C)	impression diameter (mm)	

5.2.2	TABLE: electric strength tests and impulse tests		N
test voltage applied between:		test voltage (V r.m.s)	breakdown

5.3.5	TABLE: fault condition tests				P
No.	component No.	fault	test voltage (V)	test time	Result
1	IC pins2-3	s-c	Dc5V	10 min	Unit shutdown immediately, recoverable after remove the flalt. No component damage. No any hazardous.
2	Internal battery	o-c	Dc5V	1hour	Work nomarly, No any hazardous.
Remark:					

== END ==

Attachments: real photos

Photo 1

☒ Complete

☐ Internal

☐ Component

☐ PCB

☐ Adapter



Photo 2

☒ Complete

☐ Internal

☐ Component

☐ PCB

☐ Adapter



Photo 3

- ☐ Complete
- ☒ Internal
- ☐ Component
- ☐ PCB
- ☐ Adapter

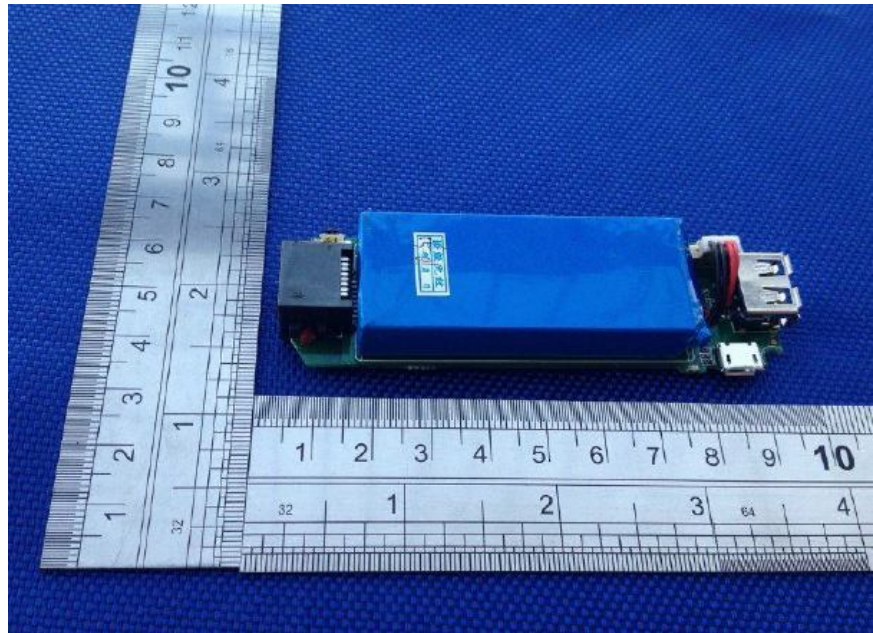


Photo 4

- ☐ Complete
- ☒ Internal
- ☐ Component
- ☐ PCB
- ☐ Adapter

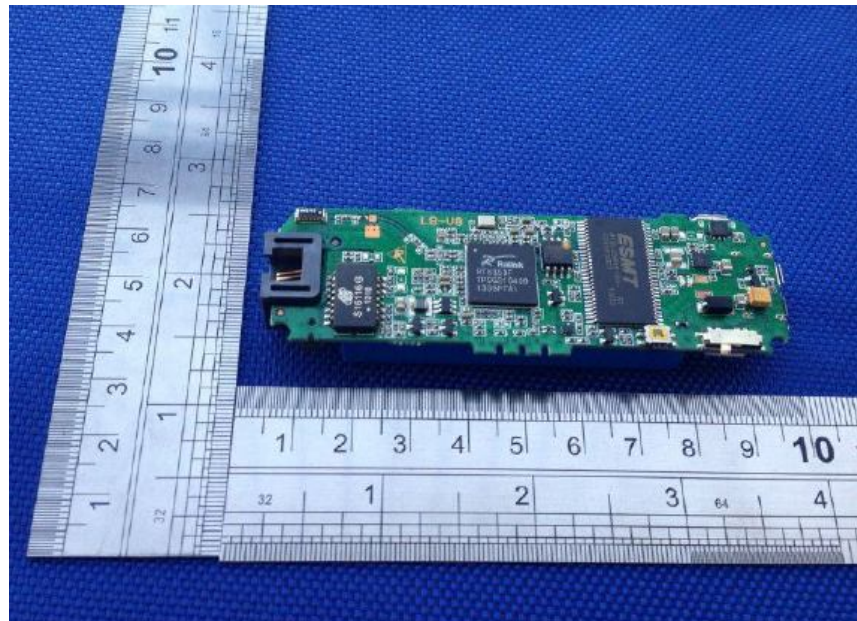


Photo 5
☒ Complete

☐ Internal

☐ Component

☐ PCB

☐ Adapter

Photo 6
☒ Complete

☐ Internal

☐ Component

☐ PCB

☐ Adapter


Photo 7

☒ Complete

☐ Internal

☐ Component

☐ PCB

☐ Adapter



----END OF REPORT ----