

APPLICATION FOR RED DIRECTIVE

On Behalf of

Shanghai High-Flying Electronics Technology Co., Ltd

WI-FI Module

Model: HF-LPB100

- Prepared For : Shanghai High-Flying Electronics Technology Co., Ltd Room 1002, #1 Building A, No.3000 Longdong Avenue, Pudong, Shanghai, China
- Prepared By : Shenzhen Anbotek Compliance Laboratory Limited 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China
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Date of Test:	Jul. 25, 2017 to Aug. 15, 2017
Date of Report:	Aug. 15, 2017
Report Number:	R0217060236S



TEST REPORT			
EN 60950-1			
Information technology equipment – Safety –			
F	Part 1: General requirements		
Reference No:	R0217060236S		
Compiled by (+ signature):	Yoli Peng		
Approved by (+ signature):	Jason Xia		
Date of issue:	Aug. 15, 2017		
Contents:	47 pages		
Testing laboratory			
	Shenzhen Anbotek Compliance Laboratory Limited		
Address:	1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China		
Testing location:	Same as above		
Applicant			
	Jame Shanghai High-Flying Electronics Technology Co., Ltd		
Address:	Room 1002, #1 Building A, No.3000 Longdong Avenue, Pudong, Shanghai, China		
Test specification			
Standard:	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013		
Test procedure:	Compliance with		
	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013		
Procedure deviation:	N.A.		
Non-standard test method:	N.A.		
Test item			
Description	WI-FI Module		
Trademark:	High-Flying		
Model and/or type reference::	HF-LPB100		
	Shanghai High-Flying Electronics Technology Co., Ltd		
	Room 1002, #1 Building A, No.3000 Longdong Avenue, Pudong, Shanghai, China		
Factory	Shanghai High-Flying Electronics Technology Co., Ltd		
Address	Shanghai, China		
Rating(s):	DC 3.3V, 170-300mA		



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Test item particulars:	WI-FI Module		
Equipment mobility:	Movable Hand-held Transportable Stationary For building-in Direct plug-in		
Connection to the mains:	 Pluggable equipment Type A Type B Permanent connection Detachable power supply cord Non-detachable power supply cord Not directly connected to the mains built-in component, consider in end system 		
Operating condition:	Continuous Rated operating / resting time:		
Over voltage category (OVC):	OVC I OVC II OVC III OVC IV Other:		
Tested for IT power systems	Yes No		
IT testing, phase-phase voltage (V):	N.A.		
Class of equipment:	Class I Class II Class III		
Considered current rating (A)			
Pollution degree (PD)	□ PD 1		
IP protection class:	IPX0		
Altitude during operation (m)	2000		
Altitude of test laboratory (m)	<500		
Possible test case verdicts:			
- test case does not apply to the test object:	N(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:	Jul. 25, 2017		
Date(s) of performance of tests	Jul. 25, 2017 to Aug. 15, 2017		
General remarks			
This test report shall not be reproduced except in full wi	thout 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:

- 1. The EUT for supplying information technology equipment.
- 2. The maximum ambient temperature is 40° C.



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

1	GENERAL		Р
1.5	Components		Р
1.5.1	General		Р
	Comply with IEC 60950 or relevant component standard	Components, which were found to affect safety aspects comply with the requirements of this aspects of the relevant IEC component standards. (See appended table 1.5.1)	Ρ
1.5.2	Evaluation and testing of components		Р
1.5.3	Thermal controls	No thermal controls provided	Ν
1.5.4	Transformers		Ν
1.5.5	Interconnecting cables	No interconnecting cable provided.	Ν
1.5.6	Capacitors bridging insulation	No such capacitors used.	Ν
1.5.7	Resistors bridging insulation		Ν
1.5.7.1	Resistors bridging functional insulation, basic insulation or supplementary insulation		Ν
1.5.7.2	Resistors bridging double insulation or reinforced insulation between the a.c. mains supply and other circuits		Ν
1.5.7.3	Resistors bridging double insulation or reinforced insulation between the a.c. mains supply and circuits connected to an antenna or coaxial cable		Ν
1.5.8	Components in equipment for IT power systems		Ν
1.5.9	Surge suppressor		Ν
1.5.9.1	General		Ν
1.5.9.2	Protection of VDRs		Ν
1.5.9.3	Bridging of functional insulation by a VDR		Ν
1.5.9.4	Bridging of basic insulation by a VDR		Ν
1.5.9.5	Bridging of supplementary, double or reinforced by a VDR		Ν
1.6	Power interface		Р
1.0			Г

1.6	Power interface		Р
1.6.1	AC power distribution systems		Ν
1.6.2	Input current	(see appended table 1.6.2)	Р
1.6.3	Voltage limit of hand-held equipment	No hand-held equipment	Ν
1.6.4	Neutral conductor		Ν



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
1.7	Marking and instructions		Р
1.7.1	Power rating	See below	Р
	Rated voltage(s) or voltage range(s) (V)	3.3V	Р
	Symbol for nature of supply, for d.c. only		Р
	Rated frequency or frequency range (Hz) :		N
	Rated current (mA or A):	170-300mA	Р
	Manufacturer's name or trademark or identification marks	Manufacturer : Shanghai High-Flying Electronics Technology Co., Ltd	Р
	Type/model	HF-LPB100	Р
	Symbol of Class II equipment only		N
	Other symbols		N
	Certification marks		N
1.7.2	Safety instructions	See user manual	Р
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N
1.7.4	Supply voltage adjustment	Input not adjustable.	N
	Methods and means of adjustment; reference to installation instructions		
1.7.5	Power outlets on the equipment:	No power outlets on the equipment.	Ν
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	No such device within the EUT	Ν
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		Ν
1.7.7.3	Terminal for d.c. mains supply conductors		N
1.7.8	Controls and indicators		N
1.7.8.1	Identification, location and marking	No controls and identification.	N
1.7.8.2	Colours		N
1.7.8.3	Symbols according to IEC 60417		N
1.7.8.4	Markings using figures		N
1.7.9	Isolation of multiple power sources	Only one supply voltage provided.	Ν
1.7.10	Thermostats and other regulating devices	No such components.	N



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
1.7.11	Durability	The marking was rubbed with cloth soaked with water for 15 sec. and then again for 15 sec. with the cloth soaked with petroleum spirit.	Ρ
		After this test, the marking still legible and durable.(see appended tables 1.7.11)	
1.7.12	Removable parts	No removable parts	Ν
1.7.13	Replaceable batteries		Ν
	Language		
1.7.14	Equipment for restricted access locations:	Unit is not limited to be used in restricted access locations.	N

2	PROTECTION FROM HAZARDS		
2.1	Protection from electric shock and energy hazards		N
2.1.1	Protection in operator access areas	No hazardous live	Р
		parts within the EUT	
2.1.1.1	Access to energized parts		Ν
	Test by inspection		Ν
	Test with test finger:		Ν
	Test with test pin:		Ν
	Test with test probe:	No TNV present.	Ν
2.1.1.2	Battery compartments:		Р
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area.	Ν
	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation		
2.1.1.4	Access to hazardous voltage circuit wiring	No hazardous voltage wiring in operator accessible area.	Ν
2.1.1.5	Energy hazards:	No energy hazard in operator	Р
		access area	
2.1.1.6	Manual controls		Ν
2.1.1.7	Discharge of capacitors in equipment		Ν
	Time-constant (s); measured voltage (V):		
2.1.1.8	Energy hazards d.c. mains supplies		Ν
2.1.1.9	Audio amplifiers in information technology equipment		Ν



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	EN 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict	
2.1.2	Protection in service access areas	No service access area.	Ν	
2.1.3	Protection in restricted access locations	No restricted access location.	Ν	

2.2	SELV circuits		
2.2.1	General requirements		Р
2.2.2	Voltages under normal conditions (V)	Not exceed 60V dc in SELV circuit	Р
2.2.3	Voltages under fault conditions (V)	Not exceed 60V dc in SELV circuit	Р
2.2.3.1	Separation by double insulation or reinforced insulation (method 1)	Method 1 used. SELV separate from primary by reinforced or double insulation.	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)		Ν
2.2.4	Connection of SELV circuits to other circuits :	SELV circuit only for connection to other SELV circuits.	Р

2.3	TNV circuits	N
2.3.1	Limits	N
	Type of TNV circuits	N
2.3.2	Separation from other circuits and from accessible parts	N
	Insulation employed	Ν
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	N
2.4.1	General requirements	N
2.4.2	Limit values	N
	Frequency (Hz)	
	Measured current (mA)	
	Measured voltage (V)	
	Measured capacitance (µF)	

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	EN 60950-1			
Clause	Clause Requirement – Test Result - Remark			
2.4.3	Connection of limited current circuits to other circuits	Only intended to be connected with SELV circuits	N	

	Gircuita	
2.5	Limited power sources	
	Inherently limited output	N
	Impedance limited output	N
	Overcurrent protective device limited output	N
	Regulating network limited output under normal operating and single fault condition	Ν
	Regulating network limited output under normal operating conditions and overcurrent protective device limited output under single fault condition	N
	Output voltage (V), output current (A), apparent power (VA):	N
	Current rating of overcurrent protective device (A)	N

2.6	Provisions for earthing and bonding		
2.6.1	Protective earthing		N
2.6.2	Functional earthing		N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General		Ν
2.6.3.2	Size of protective earthing conductors		N
	Rated current (A), cross-sectional area (mm ²), AWG		
2.6.3.3	Size of protective bonding conductors	See below	N
	Rated current (A), cross-sectional area (mm ²), AWG		
2.6.3.4	Resistance (Ω) of earthing conductors and their terminations, test current(A)	See appended table 2.6.3.3	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		Ν
	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

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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
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	All safety earthing connections in compliance with Annex J.	N
2.6.5.7	Screws for protective bonding		N
2.6.5.8	Reliance on telecommunication network or cable distribution system		N
2.7	Overcurrent and earth fault protection in prima	ary circuits	
2.7.1	Basic requirements		Ν
	Instructions when protection relies on building installation		N
2.7.2	Faults not covered in 5.3		N
			1

2.7.3	Short-circuit backup protection		Ν
2.7.4	Number and location of protective devices:		Ν
2.7.5	Protection by several devices	One protective device provided	Ν
2.7.6	Warning to service personnel:	No service work necessary	Ν

2.8	Safety interlocks		Ν
2.8.1	General principles	No safety interlocks.	N
2.8.2	Protection requirements		N
2.8.3	Inadvertent reactivation		N
2.8.4	Fail-safe operation		N
2.8.5	moving parts		N
2.8.6	Overriding		N
2.8.7	Switches and relays		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



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
2.9	Electrical insulation		Р
2.9.1	Properties of insulating materials		Р
2.9.2	Humidity conditioning	48h	Р
	Relative humidity (%), temperature (°C):		
2.9.3	Grade of insulation	Reinforced, double, supplementary, basic and functional insulation	Р
2.9.4	Separation from hazardous voltages		N
	Method(s) used		
2.10	Clearances, creepage distances and distances	through insulation	N
2.10.1	General		
2.10.1	Determination of working voltage		N
2.10.3	Clearances		N
2.10.3.1	General		N
2.10.3.2	Mains transient voltages		N
2.10.3.3	Clearances in primary circuit		N
2.10.3.4	Clearances in secondary circuits		N
2.10.3.9	Measurement of transient voltage		N
2.10.4	Creepage distances		N
	CTI tests	P*	
2.10.5	Solid insulation		N
2.10.5.1	General		N
2.10.5.2	Distance through insulation		N
2.10.5.3	Insulating compound as solid insulation		N
2.10.5.4	Semiconductor devices		N
2.10.5.5	Cemented joints		N
2.10.5.6	Thin sheet material		N
	Number of layers (pcs)		Ν
	Electric strength test		
2.10.5.7	Separable thin sheet material		N
2.10.5.8	Non-separable thin sheet material		N
2.10.5.9	Thin sheet material – standard test procedure		N
2.10.5.10	Thin sheet material – alternative test procedure		Ν
2.10.5.11	Insulation in wound components		N
2.10.5.12	Wound components		Ν



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
	Number of layers (pcs):		N
	Two wires in contact inside component; angle between 45° and 90°		Ν
2.10.5.13	Wire with solvent –based enamel in wound component		N
2.10.5.14	Additional insulation in would components		N
2.10.6	Construction of printed boards		N
2.10.6.1	Uncoated printed boards		N
2.10.6.2	Coated printed boards		N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N
2.10.6.4	Insulation between conductors on the different surface of a printed board		N
2.10.7	Component external terminations	No such components	N
2.10.8	Tests on coated printed boards and coated components		N
2.10.8.1	Sample preparation and preliminary inspection		N
2.10.8.2	Thermal conditioning		N
2.10.8.3	Electric strength test		N
2.10.8.4	Abrasion resistance test		N
2.10.9	Thermal cycling		N
2.10.10	Test for Pollution Degree 1 environment and for insulating compound		Ν
2.10.11	Tests for semiconductor devices and for cemented joints		N
2.10.12	Enclosed and sealed parts		Ν
3	WIRING, CONNECTIONS AND SUPPLY		N
2 1	Conoral		N

WIRING, CONNECTIONS AND SUPPLY	N
General	N
Current rating and overcurrent protection	N
Protection against mechanical damage	N
Securing of internal wiring	N
Insulation of conductors	N
Beads and ceramic insulators	N
Screws for electrical contact pressure	N
Insulating materials in electrical connections	Ν
Self-tapping and spaced thread screws	Ν
Termination of conductors	Ν
	General Current rating and overcurrent protection Protection against mechanical damage Securing of internal wiring Insulation of conductors Beads and ceramic insulators Screws for electrical contact pressure Insulating materials in electrical connections Self-tapping and spaced thread screws



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
	10 N pull test		N
3.1.10	Sleeving on wiring		N
3.2	Connection to on a a maine sumplies or a dia	maina aunah/	N
3.2.1	Connection to an a.c. mains supplies or a d.c. Means of connection		N
-			N
3.2.1.1	Connection to an a.c. mains supply		N
3.2.1.2	Connection to a d.c. mains supply		N
3.2.2	Multiple supply connections		N
3.2.3	Permanently connected equipment	Unit is not a permanently connected equipment.	N
	Number of conductors, diameter (mm) of cable and conduits		
3.2.4	Appliance inlets	No appliance inlets	Ν
3.2.5	Power supply cords		N
3.2.5.1	AC power supply cords		
	Туре		
	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	See below	N
	Mass of equipment (kg), pull (N):		N
	Longitudinal displacement (mm)		
3.2.7	Protection against mechanical damage		
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 3.3.1	Wiring terminals for connection of external co Wiring terminals		N 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
0.0.7	Rated current (A), cord/cable type, cross- sectional area (mm ²):		



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
3.3.5	Wiring terminal sizes		N
	Rated current (A), type and nominal thread diameter (mm):		
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 mains supply		N
3.4.1	General requirement		Ν
3.4.2	Disconnect device		N
3.4.3	Permanently connected equipment		N
3.4.4	Parts which remain energized		N
3.4.5	Switches in flexible cords		Ν
3.4.6	Single-phase equipment and d.c. equipment		N
3.4.7	Three-phase equipment		Ν
3.4.8	Switches as disconnect devices		N
3.4.9	Plugs as disconnect devices		Ν
3.4.10	Interconnected equipment		N
3.4.11	Multiple power sources		N
3.5	Interconnection of equipment		Р
3.5.1	General requirements	See below	Р
3.5.2	Types of interconnection circuits	: Interconnection circuits of SELV through the output	Р

3.5.2		Interconnection circuits of SELV through the output connectors. No ELV interconnection circuits.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection.	Ν
3.5.4	Data ports for additional equipement		Ν

4	PHYSICAL REQUIREMENTS		Ν
4.1	Stability		
	Angle of 10°	Consider in end system	Ν
	Test: force (N)		Ν

4.2	Mechanical strength		Р
4.2.1	General	See below. After tests, equipment complied with 2.1.1, 2.6.1, 2.10 and 4.4.1.	Р



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Clause	Requirement – Test	Result - Remark	Verdict
		Γ	1
4.2.2	Steady force test, 10 N		N
4.2.3	Steady force test, 30 N		Ν
4.2.4	Steady force test, 250 N		N
4.2.5	Impact test		Ν
	Fall test		Ν
	Swing test		Ν
4.2.6	Drop test		N
4.2.7	Stress relief test		N
4.2.8	Cathode ray tubes	No CRT in the unit.	N
	Picture tube separately certified		N
4.2.9	High pressure lamps	No high pressure lamps.	N
4.2.10	Wall or ceiling mounted equipment; force (N) :		N

4.3	Design and construction		Р
4.3.1	Edges and corners		Р
4.3.2	Handles and manual controls; force (N):	No such device within the EUT	Ν
4.3.3	Adjustable controls	No adjustable controls.	Ν
4.3.4	Securing of parts		Ν
4.3.5	Connection of plugs and sockets		Ν
4.3.6	Direct plug-in equipment	The EUT is not 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)		N
4.3.7	Heating elements in earthed equipment	No heating elements provided.	Ν
4.3.8	Batteries	No batteries.	Ν
	- Overcharging of a rechargeable battery		Ν
	- Unintentional charging of a non-rechargeable battery		Ν
	- Reverse charging of a rechargeable battery		Ν
	- Excessive discharging rate for any battery		Ν
4.3.9	Oil and grease	Insulation in intended use not considered to be exposed to oil or grease.	Ν



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these substances.	N
4.3.11	Containers for liquids or gases		Ν
4.3.12	Flammable liquids		Ν
	Quantity of liquid (I):		
	Flash point (°C):		
4.3.13	Radiation; type of radiation:		Ν
4.3.13.1	General		Ν
4.3.13.2	Ionizing radiation	No ionising radiation.	Ν
	Measured radiation (pA/kg):		
	Measured high-voltage (kV):		
	Measured focus voltage (kV)		
	CRT markings		
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No UV radiation.	Ν
	Part, property, retention after test, flammability classification:		
	Human exposure to ultraviolet (UV)radiation:		
4.3.13.5	Laser (including LEDs)		Р
	Laser class	Class I	
4.3.13.6	Other types:		Ν

4.4	.4 Protection against hazardous moving parts	
4.4.1	General No hazardous moving parts.	Ν
4.4.2	Protection in operator access areas	Ν
4.4.3	Protection in restricted access locations	Ν
4.4.4	Protection in service access areas	Ν

4.5	Thermal requirements	Thermal requirements	
4.5.1	General		Р
4.5.2	Temperature tests	See appended table 4.5.1	Ρ
4.5.3	Temerature limits for materials	The equipment and its component parts did not attain excessive temperatures during normal operation. (See appended table 4.5.1)	Ρ
4.5.4	Touch temperature limits	See appended table 4.5.1	Р
4.5.5	Resistance to abnormal heat		Ν



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

4.6	Openings in enclosures	N
4.6.1	Top and side openings	N
	Dimensions (mm):	
4.6.2	Bottoms of fire enclosures	N
	Construction of 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):	

4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame		Р
	Method 1, selection and application of components wiring and materials		Р
	Method 2, application of all of simulated fault condition tests		N
4.7.2	Conditions for a fire enclosure		Р
4.7.2.1	Parts requiring a fire enclosure		Р
4.7.2.2	Parts not requiring a fire enclosure		N
4.7.3	Materials		
4.7.3.1	General	PCB:V-0	Р
4.7.3.2	Materials for fire enclosures		Р
4.7.3.3	Materials for components and other parts outside fire enclosures		Р
4.7.3.4	Materials for components and other parts inside fire enclosures		N
4.7.3.5	Materials for air filter assemblies	No air filter provided.	N
4.7.3.6	Materials used in high-voltage components	No high voltage components provided.	N

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS	Ν
5.1	Touch current and protective conductor current	Ν
5.1.1	General	N
5.1.2	Equipment under test (EUT)	Ν
5.1.3	Test circuit	Ν
5.1.4	Application of measuring instrument	Ν



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	EN 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict	
5.1.5	Test procedure		N	
5.1.6	Test measurements		N	
	Test voltage (V):			
	Measured current (mA):			
	Max. allowed current (mA):			
	Measured protective conductor current (mA):			
	Max. allowed protective conductor current (mA) :			
5.1.7	Equipment with touch current exceeding 3.5 mA	No test necessary.	N	
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks	No TNV circuit.	N	
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distributions system		N	
	Test voltage (V):			
	Measured touch current (mA):			
	Max. allowed touch current (mA)			
5.1.8.2	Summation of touch currents from telecommunication networks:		N	

5.2	Electric strength		Р
5.2.1	General	(see appended table 5.2)	Р
5.2.2	Test procedure	(see appended table 5.2)	Р

5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal operation		Р
5.3.2	Motors		Ν
5.3.3	Transformers	Evaluated within has been approved power supply	N
5.3.4	Functional insulation:	By short circuit.	Р
5.3.5	Electromechanical components	No electromechanical components.	N
5.3.6	Audio amplifiers in information technology equipment		Ν
5.3.7	Simulation of faults		Р
5.3.8	Unattended equipment	None of the listed components was provided.	Ν



fault conditions

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	EN 60950-1	_	
Clause	Requirement – Test	Result - Remark	Verdict
5.3.9	Compliance criteria for abnormal operating and		Р

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	
6.1.1	Protection from hazardous voltages	
6.1.2	Separation of the telecommunication network from earth	
6.1.2.1	Requirements	
	Test voltage (V):	
	Current in the test circuit (mA):	
6.1.2.2	Exclusions:	N

6.2	Protection of equipment users from overvoltages 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):	Ν
	Current limiting method	Ν

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



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

Α	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE	N
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	N
A.1.1	Samples	
	Wall thickness (mm)	
A.1.2	Conditioning of samples; temperature (°C):	N
A.1.3	Mounting of samples	N
A.1.4	Test flame (see IEC 60695-11-3)	N
	Flame A, B, C or D	
A.1.5	Test procedure	N
A.1.6	Compliance criteria	N
	Sample 1 burning time (s)	
	Sample 2 burning time (s)	
	Sample 3 burning time (s)	
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)	N
A.2.1	Samples, material	
	Wall thickness (mm)	
A.2.2	Conditioning of samples; temperature (°C):	N
A.2.3	Mounting of samples	Ν
A.2.4	Test flame (see IEC 60695-11-4)	Ν
	Flame A, B or C	
A.2.5	Test procedure	Ν
A.2.6	Compliance criteria	Ν
	Sample 1 burning time (s)	
	Sample 2 burning time (s)	
	Sample 3 burning time (s)	
A.2.7	Alternative test acc. To IEC 60695-11-5, cl. 5 and 9	N
	Sample 1 burning time (s)	
	Sample 2 burning time (s)	
	Sample 3 burning time (s)	
A.3	Hot flaming oil test (see 4.6.2)	N
A.3.1	Mounting of samples	N



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	E	N 60950-1	
Clause	Requirement – Test	Result - Remark	Verdict
		•	
A.3.2	Test procedure		N
A.3.3	Compliance criterion		Ν

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL and 5.3.2)	CONDITIONS (see 4.7.2.2	Ν
B.1	General requirements		N
	Position:		
	Manufacturer:	(see appended table 1.5.1)	
	Туре:	(see appended table 1.5.1)	
	Rated values	(see appended table 1.5.1)	
B.2	Test conditions		N
B.3	Maximum temperatures		N
B.4	Running overload test		Ν
B.5	Locked-rotor overload test		Ν
	Test duration (days)		
	Electric strength test: test voltage (V):		
B.6	Running overload test for d.c. motors in secondary circuits		Ν
B.6.1	General		Ν
B.6.2	Test procedure		Ν
B.6.3	Alternative test procedure		Ν
B.6.4	Electric strength test; test voltage (V):		N
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		Ν
B.7.1	General		Ν
B.7.2	Test procedure		Ν
B.7.3	Alternative test procedure		Ν
B.7.4	Electric strength test; test voltage (V):		Ν
B.8	Test for motors with capacitors	(see appended table 5.3)	Ν
B.9	Test for three-phase motors	(see appended table 5.3)	Ν
B.10	Test for series motors		Ν
	Operating voltage (V):		

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		Ν
	Position:		
	Manufacturer:	(see appended table 1.5.1)	



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EN 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
			1
	Туре	(see appended table 1.5.1)	
	Rated values:	(see appended table 1.5.1)	
	Method of protection:		
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)		N
D.1	Measuring instrument		N
D.2	Alternative measuring instrument		N

E		ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	Ν
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F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES	Ν	
	(see 2.10 and Annex G)		

G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	N
G.1	Clearances	N
G.1.1	General	N
G.1.2	Summary of the procedure for determining minimum clearances	N
G.2	Determination of mains transient voltage (V)	N
G.2.1	AC mains supply	N
G.2.2	Earthed d.c. mains supplies	N
G.2.3	Unearthed d.c. mains supplies	N
G.2.4	Battery operation:	N
G.3	Determination of telecommunication network transient voltage (V)	N
G.4	Determination of required withstand voltage (V)	N
G.4.1	Mains transients and internal repetitive peaks:	N
G.4.2	Transients from telecommunication networks:	N
G.4.3	Combination of transients	N
G.4.4	Transients from cable distribution systems	N
G.5	Measurement of transient voltages (V)	N
	a) Transients from a mains supply	N

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	EN 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict	
	For an a.c. mains supply		Ν	
	For a d.c. mains supply		Ν	
	b) Transients from a telecommunication network		Ν	
G.6	Determination of minimum clearances:		N	

н	ANNEX H, IONIZING RADIATION (see 4.3.13)	Ν

J	ANNEX J, TABLE OF ELECTROCHEMICAL POT	TENTIALS (see 2.6.5.6)	Ν
	Metal(s) used:		

К	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)	N
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 4.5.2)	N
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	N
		•

м	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)	
M.1	Introduction	N
M.2	Method A	N
M.3	Method B	N
M.3.1	Ringing signal	N
M.3.1.1	Frequency (Hz)	



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EN 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
M.3.1.2	Voltage (V):		
M.3.1.3	Cadence; time (s), voltage (V):		
M.3.1.4	Single fault current (mA):		
M.3.2	Tripping device and monitoring voltage:		Ν
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		Ν
M.3.2.2	Tripping device		Ν
M.3.2.3	Monitoring voltage (V):		Ν

N	ANNEX N, IMPULSE TEST GENERATORS (see 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	1.5.7.2, 1.5.7.3, 2.10.3.9,	N
N.1	ITU-T impulse test generators		N
N.2	IEC 60065 impulse test generator		Ν

Р	ANNEX P, NORMATIVE REFERENCES			

Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	N
	a) Preferred climatic categories:	N
	b) Maximum continuous voltage:	N
	c) Pulse current:	Ν

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	Ν
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	Ν
R.2	Reduced clearances (see 2.10.3)	Ν

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	Ν

	Т	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)	Ν	1
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U	I	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED	Ν
		INSULATION (see 2.10.5.4)	



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	E	N 60950-1	·
Clause	Requirement – Test	Result - Remark	Verdict

V	ANNEX V, AC POWER DISTRIBUTION SYSTEM	S (see 1.6.1)	Ν
V.1	Introduction		Ν
V.2	TN power distribution systems		Ν

w	ANNEX W, SUMMATION OF TOUCH CURREN	TS	N
W.1	Touch current from electronic circuits		N
W.1.1	Floating 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

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 Short circuit performed, see appended table.	N

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

AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	Ν
BB	ANNEX BB, CHANGES IN THE SECOND EDITION	

CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters		Ν
CC.1	General		Ν



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	EN 60950-1				
Clause	Requirement – Test	Result - Remark	Verdict		
CC.2	Test program 1:				
CC.3	Test program 2		Ν		

DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment		Ν
DD.1	General		Ν
DD.2	Mechanical strength test, variable N		Ν
DD.3	Mechanical strength test, 250N, including end stops:		Ν
DD.4	Compliance		N

EE	ANNEX EE, Household and home/office document/media shredders	N
EE.1	General	Ν
EE.2	Markings and instructions	Ν
	Use of markings or symbols	Ν
	Information of user instructions, maintenance and/or servicing instructions:	N
EE.3	Inadvertent reactivation test	Ν
EE.4	Disconnection of power to hazardous moving parts:	N
	Use of markings or symbols:	N
EE.5	Protection against hazardous moving parts	N
	Test with test finger (Figure 2A):	N
	Test with wedge probe (Figure EE1 and EE2):	N



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

ATTACHMENT TO TEST REPORT IEC 60950-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Information technology equipment - Safety -

Part 1: General requirements

Differences according to: EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

Attachment Form No. EU_GD_IEC60950_1B_II

Master Attachment: Date (2011-08)

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EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 - CENELEC COMMON MODIFICATIONS

	IEC 60950-1, GROUP	DIFFERENCES	S (CENELEC	common mod	lifications EN)	_
Clause	Requirement – Test			Result - Rema	ark	Verdict
Contents	Add the following ann	exes:				Р
	Annex ZA (normative	e)	publication	e references to ns with their co n publications		
	Annex ZB (normative	e)	Special na	ational conditio	ns	
General	Delete all the "country according to the follow		eference docu	iment (IEC 609	950-1:2005)	Р
	1.4.8 Note 2 1.5.8 Note 2	1.5.1 1.5.9.4	Note 2 & 3 Note	1.7.2.1	Note Note 4, 5 & 6	
	2.2.3 Note 2.3.2.1 Note 2 2.7.1 Note	2.2.4 2.3.4 2.10.3.2	Note Note 2 Note 2	2.3.2 2.6.3.3 2.10.5.1	Note Note 2 & 3 3 Note 3	
	3.2.1.1 Note 4.3.6 Note 1 & 2	3.2.4 4.7	Note 2 Note 3. Note 4	2.10.3.1 2.5.1 4.7.2.2	Note 2	
	4.7.3.1 Note 2 6 Note 2 & 5	5.1.7.1 6.1.2.1	Note 3 & - Note 2	6.1.2.2	Note 1 Note	
	6.2.2 Note 7.1 Note 3 G.2.1 Note 2	6.2.2.1 7.2 Annex H	Note 2 Note Note 2	6.2.2.2 7.3	Note Note 1 & 2	
General (A1:2010)	Delete all the "country 1:2005/A1:2010) acc	/" notes in the r	eference docu	iment (IEC 609	950-	Р
	1.5.7.1 Note	6.1.2.1	Note 2			
	6.2.2.1 Note 2	EE.3	Note			
1.3.Z1	Add the following sub	clause:				N
	1.3.Z1 Exposure to e	cessive sound	pressure			
	The apparatus shall the constructed as to pre for its intended purpo	sent no danger	when used			



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	EN 60950-1				
Clause	Requirement – Test	Result - Remark	Verdict		
	operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.				
(A12:2011)	In EN 60950-1:2006/A12:2011 Delete the addition of 1.3.Z1 / EN 60950-1:2006 Delete the definition of 1.2.3.Z1 / EN 60950-		N		
1.5.1	1:2006/A1:2010 Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC		N		
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.		N		
1.7.2.1 (A12:2011)	In EN 60950-1:2006/A12:2011 Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments.		Ν		
	Zx Protection against excessive sound pressure from personal music players		N		
	Zx.1 General 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.		Ν		
	A personal music player is a portable equipment for personal use, that: is designed to allow the user to listen to recorded or broadcast sound or video; and primarily users headphones or earphones that can be worn in or on or around the ear; and allows the user to walk around while in use.				



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
	NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.		
	A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause.		
	The requirements in this sub-clause are valid for musci or video mode only.		
	The requirements do not apply:		
	while the personal music player is connected to an external amplifier; or		
	while the headphone or earphones are not used.		
	NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player.		
	The requirements do not apply to:		
	hearing aid equipment and professional equipment;		
	NOTE 3 Professional equipment is equipment sold through special sale s channels. All products sold through normal electronics stores are considered not to professional equipment.		
	analogue personal music players (personal music players without any kind of digital processing of the sound signal) that are brought to the market before the end of 2015.		
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.		N
	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.		
	Zx.2 Equipment requirements No safety provision is required for equipment that complies with the following: equipment provided as a package (personal music player with its listening device), where the acoustic output $L_{Aeq,T}$, is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and 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		N



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EN 60950-1				
Clause	Requirement – Test	Result - Remark	Verdict	
	fixed "programme simulation noise" as described in EN 50332-1. NOTE 1 Wherever the term acoustic acoustic output is used in this clause, the 30 s A-weighted equipment sound pressure level $L_{Aeq,T}$, is meant. See also Zx.5 and Annex Zx. All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and c) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time; and NOTE 2 Examples of means include visual or audible signals. Action from the user is always required. NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long the personal music player has been switched off. d) have a warning as specified in Zx.3; and e) not exceed the following: 1) equipment provided as a package (player with Its listening device), the acoustic output shall be \leq 100 dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and 2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output socket for a listening device, the electrical output socket for a listening device, the electrical output shall be \leq 150 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1. For music where the average sound pressure (long term L _{Aeq,T}) measured over the duration of the song is lower than the average produced by the programme simulation n			



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
	Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only 65 dBA, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dBA.		
	Zx.3 WarningThe warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: the symbol of Figure 1 with a minimum height of 5 mm; and the following wording, or similar: "To prevent possible hearing damage, do not listen at high volume levels for long periods."		N
	Figure 1 – Warning label (IEC 60417-6044)		
	Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.		
	Zx.4 Requirements for listening devices (headp	hones and earphones)	N
	 Zx.4.1 Wired listening devices with analogue input With 94 dBA sound pressure output L_{Aeq,T}, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control). NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV. 		N
	Zx.4.2 Wired listening devices with digital inputWith 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		Ν



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
	device shall be ≤ 100 dBA. This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.). NOTE An example of a wired listening device with		
	digital input is a USB headphone. Zx.4.3 Wireless listening devices In wireless mode: 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 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 abovementioned programme simulation noise, the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA. NOTE An example of a wireless listening device is a Bluetooth headphone.		
	Zx.5 Measurement methods 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. NOTE Test method for wireless equipment provided without listening device should be defined.		N
2.7.1	Replace the subclause as follows: Basic requirements		Р
	To protect against excessive current, short- circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):		
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;		
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short- circuit and earth fault protection may be provided by protective devices in the building installation;		
	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED		Р



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EN 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
2.7.2	EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. This subclause has been declared 'void'.		Ν
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2".		N
	In Table 3B, replace the first four lines by the following:		
	Up to and including 6 $0,75^{a}$ Over 6 up to and including 10 $(0,75)^{b}$ $1,0$ Over 10 up to and including 16 $(1,0)^{c}$ $1,5$		
	In the conditions applicable to Table 3B delete the words "in some countries" in condition ^{a)} .		
	In NOTE 1, applicable to Table 3B, delete the second sentence.		
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:		N
	Over 10 up to and including 16 1,5 to 2,5 1,5 to 4 Delete the fifth line: conductor sizes for 13 to 16		
4.3.13.6	A Benjace the existing NOTE by the following:		N
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to:		
	1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and		
	2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation).		
	Standards taking into account mentioned		N



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EN 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.		
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 μ Sv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.		Ν
	Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.		
Bibliography	Additional EN standards.		—

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH
	THEIR CORRESPONDING EUROPEAN PUBLICATIONS

	ZB ANNEX (normative)			
	SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement – Test	Result - Remark	Verdict	
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		Ν	
1.2.13.14	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.		N	
1.5.7.1	In Finland, Norway and Sweden , resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.		Ν	
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).		N	
1.5.9.4	In Finland , Norway and Sweden , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		N	
1.7.2.1	In Finland, Norway and Sweden, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be		N	



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
	NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		N
	Translation to Norwegian (the Swedish text will also be accepted in Norway): "Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet."		
	Translation to Swedish: "Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medfőra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."		
1.7.5	In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a. For CLASS II EQUIPMENT the socket outlet shall be		N
2.2.4	in accordance with Standard Sheet DKA 1-4a. In Norway , for requirements see 1.7.2.1, 6.1.2.1		N
2.3.2	and 6.1.2.2 of this annex. In Finland , Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.		N
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.		Р
2.7.1	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.		Ν



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
2.10.5.13	In Finland , Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.		N
3.2.1.1	In Switzerland , 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:		N
	SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A		
	SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A		
	SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A		
	In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:		
	SEV 5932-2.1998: Plug Type 25 ,		
	3L+N+PE 230/400 V, 16 A SEV 5933-2.1998:Plug Type 21,		
	L+N, 250 V, 16A		
	SEV 5934-2.1998: Plug Type 23,		
	L+N+PE 250 V, 16 A		
3.2.1.1	In Denmark , supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. 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		N
	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.		
	If poly-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.		



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EN 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
3.2.1.1	In Spain , 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. 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		N
	50075:1993. 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.		
	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.		
3.2.1.1	In the United Kingdom , 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		N
3.2.1.1	In Ireland , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A		N
3.2.4	 Plugs and Conversion Adaptors for Domestic Use) Regulations 1997. In Switzerland, for requirements see 3.2.1.1 of this annex. 		N
3.2.5.1	In the United Kingdom , a power supply cord with conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.		N



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EN 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
3.3.4	In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is: • 1,25 mm ² to 1,5 mm ² nominal cross-sectional area.		N
4.3.6	In the United Kingdom , the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		N
4.3.6	In Ireland , DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.		N
5.1.7.1	In Finland , Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT.		Ν



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
6.1.2.1 (A1:2010)	In Finland , Norway and Sweden , add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation		N
	forming part of a component, it shall at least consist of either		
	- 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. 		
	Alternatively for components, there is no distance through insulation requirements 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		
	 passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 		
	2.10.10 shall be performed using 1,5 kV), and		
	 - is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV. 		
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).		N
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:		
	- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1;		
	- the additional testing shall be performed on all the test specimens as described in EN 60384-14;		
	- the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.		



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	EN 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
6.1.2.2	In Finland , Norway and Sweden , the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, 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.		Ν
7.2	In Finland , Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.		N
7.3	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.		N
7.3	In Norway , for installation conditions see EN 60728-11:2005.		N



1.5.1	1.5.1 TABLE: List of critical components							
Object/part No.	Manufacturer/ trademark	Mark(s) of conformity ¹)						
PCB	Interchangeable	Interchange able	V-0, 130°C	UL 94	UL			
1) An asterisk indicates a mark which assures the agreed level of surveillance.								

1.6.2	TABLE: ele	TABLE: electrical data test (in normal conditions) P								
fuse #	I rated (A)	U (V)	P (W)	I (A)	Ifuse (A)	condition				
	0.17	3.3	0.264	0.08		Normal operation				
	0.3	3.3	0.693	0.21		Normal operation				
Remark:	· · · · · ·									

2.1.1.5 c) 1)	TABLE: max. V, A, VA test							
Voltage (r (V)	ated)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (ma (VA)	x.)		
Remark: Built-i	in equipme	nt, consider in syst	em					

2.1.1.5 c) 2)	5 c) 2) TABLE: stored energy N						
Capacitance C (µF) Voltage U (V)		Energy E (J)					
Remark:							

2.2 T	TABLE: evaluation of voltage limiting components in SELV circuits							
Location Voltage measurer			ment (V) Co			Comments		
Component (measured between)		max. voltage (V) (normal operation)		•	Voltage Limiting Co	omponents		
Transformer	Location		V peak	Vd.	.C.			
Fault test performed on voltage limiting components			Voltage measured (V) in SELV circuits (V peak or V d.c.)				cuits	



Remark:

2.5	TABLE	: limited power source me	asurement			N	
Condition		Output voltage (Uoc) (V)	Output current (Isc) (A)		Apparent po	ower (S) (VA)	
Normal condition						-	
				A)	VA		
	51	ngle fault	Meas.	Limit	Meas.	Limit	
						-	
Remark: SC	Remark: SC=Short circuit, OC=Open circuit						

2.10.2	TABL	E: Working vo	ltage measure	ement			Ν
Component From		From	То	V peak	V rms	Remark	
Remark:							

2.10.3 and 2.10.4	TABLE: Clearar	ABLE: Clearance and creepage distance measurements							
•) and creepage at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)		
	-	-							
Supplementa	Supplementary information:								

2.10.5	TABLE: Distance through insulation measurements						
distance thr	ough insulation di at/of:	U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)	
	-						
Remark:							

4.3.8	TABLE: Batteries	ABLE: Batteries					
The tests of data is not a	4.3.8 are applicable only when app available	ropriate battery		Ν			
Is it possible to install the battery in a reverse polarity position?				Ν			
	Non-rechargeable batteries	Rechargeable batteries					



	Disch	arging	Un-	Chai	rging	Discha	arging	Reverse	d charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition									
Max. current during fault condition							1	_	
Test results:	:					See below			Verdict
- Chemical I	eaks					No leakag	ed		
- Explosion	of the batte	ery				No explos	ion		
- Emission of flame or expulsion of molten metal						No fire			
- Electric strength tests of equipment after completion of tests						No damaged			
Supplement	ary inform	ation:							

4.5	TABLE: Thermal requirements				
	Supply voltage (V):	3.3VDC	_		
	Ambient T _{min} (°C)	40.0			
	Ambient T _{max} (°C):	40.0	—		
Maximum measured temperature T of part/at:		(Normal operation)	Allowed T _{max} (°C)		
IC		52.6	130		
РСВ		47.5	Ref.		

4.5.5	TABLE: Ball pressure test of thermoplastics				
	required impression diameter (mm):	≤ 2 mm			
part		test temperature (°C)		n diameter m)	
	-		-	-	
Remark:					



4.7	TABLE: Resistance to fire						
Part		Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence	
Refer to table 1.5.1 for details							
Supplement	Supplementary information:						

5.1.6	TABLE: Touch current measurement							
Condition		$L \rightarrow terminal A$ (mA)	$N \rightarrow terminal A$ (mA)	Limit (mA)	Comments			
						-		
Input:								

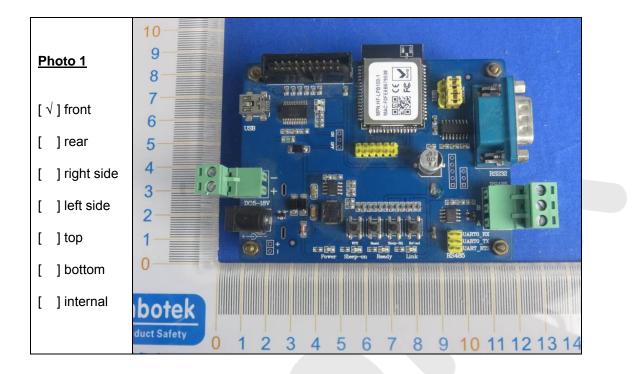
5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests					
Test voltage applied between:			Voltage shape (AC, DC, (V) impulse, surge)		Breakdown Yes / No	
			I			
Supplementa	ry information:					

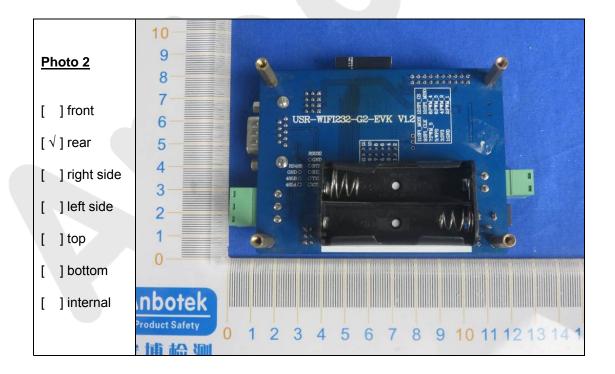
TABL	TABLE: Fault condition tests							
ambie	ambient temperature (°C):					25 ℃		
mode	l/type of pov	ver supply	/	See below				
manufacturer of power supply					See page 1			
rated markings of power supply					See rating label			
omponent o.	Fault	Test voltage (V)	Test time	Fuse #.	Fuse current (A)	Result		
IC	SC	3.3	10min			After SC, unit shut down im No damaged, no hazard.	mediatery.	
	ambie mode manu rated omponent	ambient temperat model/type of pov manufacturer of p rated markings of pmponent Fault	ambient temperature (°C) model/type of power supply manufacturer of power supply rated markings of power supply pmponent Fault Test voltage (V)	ambient temperature (°C) model/type of power supply manufacturer of power supply rated markings of power supply omponent Fault Test voltage (V)	ambient temperature (°C) model/type of power supply manufacturer of power supply rated markings of power supply omponent Fault Test Fuse (V) time #.	ambient temperature (°C) model/type of power supply manufacturer of power supply rated markings of power supply pmponent Fault Test voltage (V) Fuse time #. (A)	ambient temperature (°C) 25° C model/type of power supply See below manufacturer of power supply See page 1 rated markings of power supply See rating label pmponent Fault Test voltage time Fuse current (A) IC SC 3.3 10min After SC, unit shut down im	

The Hi-pot test conducted successfully after the completion of the fault condition.



Photos







Photos



End of the report