LOW VOLTAGE DIRECTIVE TEST REPORT

For

Mobile Phone

Model Name: F01

Brand Name: FOSOP

Report No.: AGC11281001SZ01E3

Date of Issue: May 25, 2010

Prepared For

Shenzhen Fushi Ruibao Digital Technology Co., Ltd

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TEST REPORT

EN 60950-1: 2006+A11:2009

Information technology equipment-Safety- Part 1: General requirements

Report Reference No.	AGC11281001SZ01E3
Tested by	Apple Xie
Review by (+ signature)	Matte He
Approved by (+ signature)	King Zhang
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This report is based on a blank test report that was prepared by KEMA using information obtained from the TRF originator (see below).

Testing laboratory

Name	Attestation of Global Compliance Co., Ltd.
Address	2F, No.2 Building, Huafeng No.1 Technical Industrial Park, Sanwei, Xixiang, Baoan District, Shenzhen
Testing location	Same as above.

Applicant

Name	Shenzhen Fushi Ruibao Digital Technology CO., LTD
Address	803 Room, 211 East Building, Tairan Industrial Park, Futian District, Shenzhen City, Guangdong Province, China

Manufacturer

Name	Shenzhen Fushi Ruibao Digital Technology CO., LTD
Address	803 Room, 211 East Building, Tairan Industrial Park, Futian District, Shenzhen City, Guangdong Province, China

Test specification

Standard	EN 60950-1:2006+A11:2009
Test procedure	CCA
Procedure deviation	N/A
Non-standard test method	N/A

Test Report Form/blank test report

Test Report Form No.	AGC60950A2
Test Report Form(s) Originator	AGC
Master TRF	Dated 2009-12

Test item	
Description	Mobile Phone
Brand mark	FOSOP
Model and/or type reference	F01
Rating(s)	---
Particulars	
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
Operating condition	☒continuous ☐rated operating/ resting time:
Access location	☒operator accessible ☐restricted access location
Over voltage category(OVC)	☐OVC I ☐OVC II ☐OVC III ☐OVC IV ☒other
Mains supply tolerance(%) or ansolute mains supplyvalues	±10% (By approved travel charger)
Tested for IT power systems	☐Yes ☒No
IT testing, phase-phase voltage(V)	N/A
Class of Equipment	☐Class I ☐Class II ☒Class III ☐not classified
Considered current rating(A)	N/A
Pollution degree(PD)	☐PD 1 ☒PD2 ☐PD3
Mass of equipment (kg)	Less 1Kg
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	May 19, 2010
Date(s) of performance of test	May 19 – May 25, 2010
Attachment	
Attachment A	Test report of adapter
Attachment B	Maximum sound pressure test
Attachment C	Photos of product

General remarks

This 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.

General descriptions

The mobile phone supply from Li-ion battery, and charge from Charger for general use with information technology.

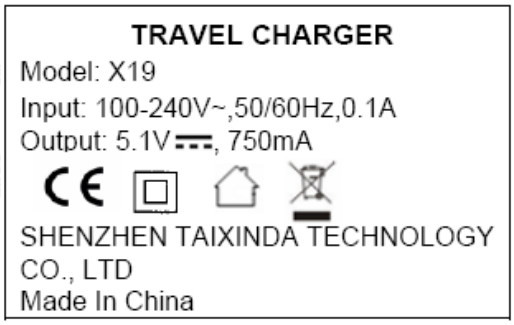
The Travel charger is direct plug-in type with integrated EN 50075 plug and Class II product with plastic enclosure. It is intended for dry location use only.

Report summary

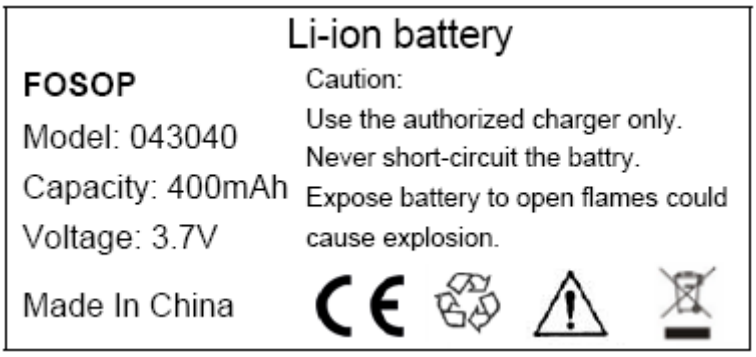
All tests were found satisfactory in accordance with EN 60950-1:2006+A11:2009.

Copy of marking plates:

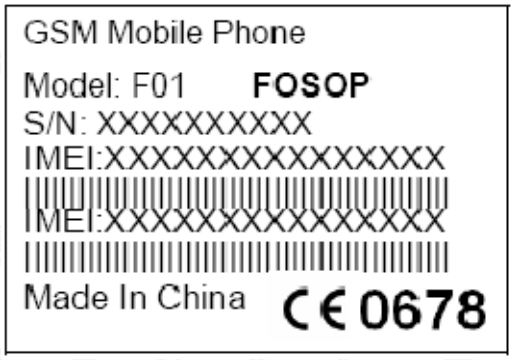
1. Charger label:



2. Battery label :



3. Mobile phone label:



EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1	GENERAL		**P**
1.5	Components		P
1.5.1	General		P
	Comply with IEC 60950 or relevant component standard	Components which were found to affect safety aspects comply with the requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. (see appended table 1.5.1)	P
1.5.2	Evaluation and testing of components	Components which are certified to IEC/EN and/or national standards are used correctly within their ratings. Components not covered by IEC/EN standards are tested under the conditions present in the equipment.	P
1.5.3	Thermal controls	No any thermal controls.	N
1.5.4	Transformers	Approved power charger.	N
1.5.5	Interconnecting cables	No such connect.	N
1.5.6	Capacitors bridging insulation	No such capacitor.	N
1.5.7	Resistors bridging insulation	No such components.	N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable		N
1.5.8	Components in equipment for IT power systems		N
1.5.9	Surge suppressors	No such parts.	N
1.5.9.1	General	Ditto	N
1.5.9.2	Protection of VDRs		N
1.5.9.3	Bridging of functional insulation by a VDR		N
1.5.9.4	Bridging od basic insulation by a VDR		N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N
1.6	Power interface		**P**

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1.6.1	AC power distribution systems	No direct mains connection.	N
1.6.2	Input current	(see appended table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment	DC5.0V	P
1.6.4	Neutral conductor	Class III equipment, no neutral conductor.	N

1.7	Marking and instructions		**P**
1.7.1	Power rating	See below	P
	Rated voltage(s) or voltage range(s) (V) ..... :	By approved charger	P
	Symbol for nature of supply, for d.c. only ..... :	⎓	P
	Rated frequency or rated frequency range (Hz) . :	DC supplied.	N
	Rated current (mA or A) ..... :	Marked with charger.	P
	Manufacturer's name or trademark or identification mark ..... :	FOSOP	P
	Type/model or type reference ..... :	F01	P
	Symbol for Class II equipment only ..... :	Class III equipment	N
	Other marking and symbols ..... :	Additional symbols or markings do not cause misunderstanding.	P
1.7.2	Safety instructions and marking	The user's manual contains information for operation, installation and technical.	P
1.7.2.1	General	See below.	P
1.7.2.2	Disconnect devices		N
1.7.2.3	Overcurrent protective device		N
1.7.2.4	IT power distribution systems		N
1.7.2.5	Operator access with a tool		N
1.7.2.6	Ozone		N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N
1.7.4	Supply voltage adjustment ..... :	No such devices used	N
	Methods and means of adjustment; reference to installation instructions ..... :		N
1.7.5	Power outlets on the equipment ..... :		N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference) ..... :		N
1.7.7	Wiring terminals		N
1.7.7.1	Protective earthing and bonding terminals ..... :	Class III equipment, no protective earthing	N

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1.7.7.2	Terminal for a.c. mains supply conductors		N
1.7.7.3	Terminals for d.c. mains supply conductors		N
1.7.8	Controls and indicators		P
1.7.8.1	Identification, location and marking ..... :	It is obviously unnecessary.	N
1.7.8.2	Colours ..... :	The colors used for LED are indicating function. No safety consideration.	P
1.7.8.3	Symbols according to IEC 60417 ..... :		N
1.7.8.4	Markings using figures ..... :	No indicators for different positions.	N
1.7.9	Isolation of multiple power sources ..... :	No direct connection to mains supply	N
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices used inside battery pack are not adjustable during normal use.	N
1.7.11	Durability	The marking withstands required tests.	P
1.7.11	Removable parts	The markings was attached on main part.	N
1.7.13	Replaceable batteries	The lithium battery is exchangeable. Warning text on the user manual.	P
	Language(s)..... :	English	--
1.7.14	Equipment for restricted access locations ..... :		N

2	PROTECTION FROM HAZARDS		**P**
2.1	Protection from electric shock and energy hazards	No hazardous parts in operator access areas.	P
2.1.1	Protection in operator access areas		P
2.1.1.1	Access to energized parts	No access with test finger to any parts with only SELV circuits.	P
	Test by inspection ..... :		N
	Test with test finger(Figure 2A) ..... :		N
	Test with test pin (Figure 2B)..... :		N
	Test with test probe (Figure 2C) ..... :	No TNV circuit	N
2.1.1.2	Battery compartments		P
2.1.1.3	Access to ELV wiring	SELV circuit, no ELV wiring in operator accessiblr area.	N
	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	(see appended table 2.10.5)	—
2.1.1.4	Access to hazardous voltage circuit wiring		N
2.1.1.5	Energy hazards ..... :	No energy hazards in operator access area.	N

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.1.1.6	Manual controls		N
2.1.1.7	Discharge of capacitors in equipment	Approved power adaptor.	P
	Time-constant (s); measured voltage (V) ..... :		–
2.1.1.8	Energy harzards – d.c. mains supply		N
	a)Capacitor connected to the d.c. mains supply.. :		N
	b)Internal battery connected to the d.c. mains supply..... :		N
2.1.1.9	Audio amplifiers		N
2.1.2	Protection in service access areas	Equipment of internal not any hazard voltage.	N
2.1.3	Protection in restricted access locations	The unit is not intended to be used in restricted locations.	N

2.2	SELV circuits		**P**
2.2.1	General requirements	SELV CIRCUITS shall exhibit voltages that are safe to touch both under normal operating conditions and after a single fault. If no external load is applied to the SELV CIRCUIT (open circuit), the voltage limits of 2.2.2 and 2.2.3 shall not be exceeded.	P
2.2.2	Voltages under normal conditions (V)..... :	All accessible voltage are less 42.4V peak or 60Vdc and are classified as SELV.	P
2.2.3	Voltages under fault conditions (V)..... :	Internal no voltage raise components cause excessive voltage in accessible SELV circuits. Limits of 71V peak and 120Vdc were not exceeded for a period longer than 0.2s.	P
2.2.4	Connection of SELV circuits to other circuits..... :	SELV circuits are only connected to other SELV circuits.	P

2.3	TNV circuits		**N**
2.3.1	Limits	No TNV circuits.	N
	Type of TNV circuits..... :		N
2.3.2	Separation from other circuits and from accessible parts		N
2.3.2.1	General requipments		N
2.3.2.2	Protection by basic insulation		N
2.3.2.3	Protection by earthing		N

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.3.2.4	Protection by other constructions ..... :		N
2.3.3	Separation from hazardous voltages		N
	Insulation employed ..... :		--
2.3.4	Connection of TNV circuits to other circuits		N
	Insulation employed ..... :		--
2.3.5	Test for operating voltages generated externally		N

2.4	Limited current circuits		**N**
2.4.1	General requirements	No limited current circuits to be evaluated.	N
2.4.2	Limit values		N
	Frequency (Hz) ..... :		-
	Measured current (mA) ..... :		--
	Measured voltage (V)..... :		--
	Measured capacitance (μF) ..... :		--
2.4.3	Connection of limited current circuits to other circuits		N

2.5	Limited power sources		**P**
	a)Inherently limited output		N
	b)Impedance limited output		N
	c)Regulating network limited output under normal operating and single fault condition	See appended table 2.5.	P
	d)Overcurrent protective device limited output		N
	Max. output voltage (V), max. output current (A), max. apparent power (VA)..... :	See appended table 2.5.	--
	Current rating of overcurrent protective device (A)		--

2.6	Provisions for earthing and bonding		**N**
2.6.1	Protective earthing	Class III equipment.	N
2.6.2	Functional earthing		N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General		N
2.6.3.2	Size of protective earthing conductors		N
	Rated current (A), cross-sectional area (mm2), AWG..... :		N

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.6.3.3	Size of protective bonding conductors		N
	Rated current (A), cross-sectional area (mm2), AWG..... :		N
2.6.3.4	Resistance of earthing conductors and their terminations, resistance(Ω), voltage drop(V),test current (A), duration(min)..... :		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)..... :		N
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		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 primary circuits		**N**
2.7.1	Basic requirements	With power supply from approved switching adaptor or secondary lithium battery, no primary circuits inside.	N
	Instructions when protection relies on building installation		N
2.7.2	Faults not covered in 5.3.7		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

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.8	Safety interlocks		**N**
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	(see appended table 5.2)	N
2.8.8	Mechanical actuators		N
2.9	Electrical insulation		**P**
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic materials are not used.	P
2.9.2	Humidity conditioning		N
	Humidity (%),temperature (°C) ..... :		--
2.9.3	Grade of insulation		N
2.9.4	Separation from hazardous voltages		N
	Method(s) used ..... :		--
2.10	Clearances, creepage distances and distances through insulation		**P**
2.10.1	General	Only SELV inside the equipment.	P
	Frequency ..... :		N
	Pollution degrees ..... :	II	--
	Reduced values for functional insulation	See 5.3.4	P
	Intervening unconnected conductive parts		N
	Insulation with varying dimensions		N
	Special separation requirements		N
	Insulation in circuits generating staritng pulses		N
2.10.2	Determination of working voltage		N
2.10.3	Clearances		N
2.10.3.1	General		N
2.10.3.2	Mains transient voltages		N

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
	a)AC mains supply.....:		N
	b)Earthed d.c. mains supplies .....:		N
	c)Unearthed d.c. main supplies .....:		N
	d)Battery operation .....:		N
2.10.3.3	Clearances in primary circuits		N
2.10.3.4	Clearances in secondary circuits	Functional insulation only.	N
2.10.3.5	Clearances incircuits having starting pulses		N
2.10.3.6	Transients from a.c. mains supply.....:		N
2.10.3.7	Transients from d.c. mains supply.....:		N
2.10.3.8	Transients from telecommunication networks and cable distribution systems.....:		N
2.10.3.9	Measurement of transient voltage levels		N
	a)Transients from a mains supply		N
	For a.c. mains supply.....:		N
	For d.c. mains supply.....:		N
	b)Transients from		N
2.10.4	Creepage distances	Functional insulation only.	N
2.10.4.1	General		N
2.10.4.2	Material group and caomparative tracking index		N
	CTI tests.....:		N
2.10.4.3	Minimum creepage distances		N
2.10.5	Solid insulation		N
2.10.5.1	General		N
2.10.5.2	Distances through insulation		N
2.10.5.3	Insulation compound as solid insulation		N
2.10.5.4	Semiconductor device		N
2.10.5.5	Cemented joints		N
2.10.5.6	Thin sheet material - General		N
2.10.5.7	Separable thin sheet material		N
	Number or layers(pcs) .....:		N
2.10.5.8	Non-separable thin sheet material		N
2.10.5.9	Thin sheet material – standard test procedure		N
	Electric strength test		N
2.10.5.10	Thin sheet material – alternative test procedure		N
	Electric strength test		N

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.10.5.11	Insulation in wound components		N
2.10.5.12	Wire in wound components		N
	Working voltage ..... :		N
	a)Basic insulation not under stress..... :		N
	b)Basic, suoolemetary, reinforced insulation..... :		N
	c)Compliance with Annex U..... :		N
	Two wires in contact inside wound component; angle between 45° and 90°..... :		N
2.10.5.13	Wire with solvent-based enamel in wound components		N
	Electric strength test		N
	Rountine test		N
2.10.5.14	Additional insulation in wound components		N
	Working voltage ..... :		N
	-basic insulation not under stress ..... :		N
	-Supplemetary, reinforced insulation ..... :		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 different layers of a printed board		N
	Distance through insulation		N
	Number of insulation layers(pcs) ..... :		N
2.10.7	Component external terminations		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 insulating compound		N
2.10.11	Test for semiconductor devices and cemented joints		N

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.10.12	Enclosed and sealed parts		N

3	WIRING, CONNECTIONS AND SUPPLY		**P**
3.1	General		P
3.1.1	Current rating and overcurrent protection	Adequate cross sectional areas on internal wiring. No internal wire for primary power distribution.	P
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges that could damage the insulation and cause hazard.	P
3.1.3	Securing of internal wiring	The internal wire has suitable fixed	P
3.1.4	Insulation of conductors	The insulation of the individual conductors is suitable for the application and the working voltage.	P
3.1.5	Beads and ceramic insulators	No such insulators provided.	N
3.1.6	Screws for electrical contact pressure	No electrical contact pressure by screwed connections.	N
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	N
3.1.8	Self-tapping and spaced thread screws	Thread-cutting or space thread screws are not used for electrical connections.	N
3.1.9	Termination of conductors	All conductors are reliable secured	P
	10 N pull test		N
3.1.10	Sleeving on wiring	No sleeving used to provide supplementary insulation	N

3.2	Connection to a mains supply		**N**
3.2.1	Means of connection ..... :	Class III equipment, no direct connection to mains supply .	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		N
	Number of conductors, diameter (mm) of cable and conduits ..... :		–
3.2.4	Appliance inlets		N
3.2.5	Power supply cords		N
3.2.5.1	AC power supply cords		N
	Type ..... :		–
	Rated current (A), cross-sectional area (mm^2), AWG..... :		–

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief		N
	Mass of equipment (kg), pull (N) ..... :		–
	Longitudinal displacement (mm) ..... :		–
3.2.7	Protection against mechanical damage		N
3.2.8	Cord guards		N
	D (mm); test mass (g) ..... :		–
	Radius of curvature of cord (mm) ..... :		–
3.2.9	Supply wiring space		N

3.3	Wiring terminals for connection of external conductors		**N**
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 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	No direct mains connection.	N
3.4.2	Disconnect devices		N
3.4.3	Permanently connected equipment		N
3.4.4	Parts which remain energized	Evaluated in approved power adapter	N
3.4.5	Switches in flexible cords		N
3.4.6	Single-phase equipment and d.c. 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

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
3.4.10	Interconnected equipment		N
3.4.11	Multiple power sources	Supplied by battery.	N
3.5	Interconnection of equipment		**P**
3.5.1	General requirements		P
3.5.2	Types of interconnection circuits ..... :	SELV circuit.	P
3.5.3	ELV circuits as interconnection circuits	No ELV interconnections.	N
3.5.4	Data ports for additional equipment		P
4	PHYSICAL REQUIREMENTS		**P**
4.1	Stability	Hand-held equipment	N
	Angle of 10°	No hazards with overturn	N
	Test: force (N) ..... :	Ditto	N
4.2	Mechanical strength		P
4.2.1	General	See below	P
4.2.2	Steady force test, 10 N		N
4.2.3	Steady force test, 30 N	No internal enclosure.	N
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	P
4.2.5	Impact test	See clause 4.2.6	N
	Fall test		N
	Swing test		N
4.2.6	Drop test; height(m) ..... :	1m; No damage of the enclosure, no energy hazards or damage to enclosure integration after the test	P
4.2.7	Stress relief test	70°C, 7hours, no hazard	P
4.2.8	Cathode ray tubes	No cathode ray tube.	N
	Picture tube separately certified ..... :		N
4.2.9	High pressure lamps	No high pressure lamp	N
4.2.10	Wall or ceiling mounted equipment; force (N) ..... :	Hand-held equipment	N
4.3	Design and construction		P
4.3.1	Edges and corners	Edges and corners are rounded.	P
4.3.2	Handles and manual controls; force (N) ..... :	15N press force.	P
4.3.3	Adjustable controls	No such adjustable control.	N

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Clause	Requirement – Test	Result – Remark	Verdict
4.3.4	Securing of parts	The enclosures are fixed together by screws.	P
4.3.5	Connection of plugs and sockets		P
4.3.6	Direct plug-in equipment		N
	Torque ..... :		--
	Compliance with the relevant mians plug standsrd ..... :		N
4.3.7	Heating elements in earthed equipment	No heating elements.	N
4.3.8	Batteries		P
	-Overcharging of a rechargeable battery	(see appended table)	P
	-Unintentional charging of a non-rechargeable battery	Rechargeable battery	N
	-Reverse charging of a rechargeable battery	(see appended table)	P
	-Excessive discharging rate for any battery	(see appended table)	P
4.3.9	Oil and grease	No Oil and grease.	N
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N
4.3.11	Containers for liquids or gases	No containers for liquids or gases	N
4.3.12	Flammable liquids ..... :	The equipment does not contain flammable liquid.	N
	Quantity of liquid (l) ..... :		N
	Flash point (°C) ..... :		N
4.3.13	Radiation; type of radiation ..... :		P
4.3.13.1	General	See below	P
4.3.13.2	Ionizing radiation	No ionizing radiation	N
	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 ultraviolet radiation	N
	Part, property, retention after test, flammability classification ..... :		N
4.3.13.4	Human exposure to ultraviolet (UV) radiation ..... :		N
4.3.13.5	Laser (including LEDs)	LED use as an indictor only, comply with class 1 requirement.	P
	Laser class ..... :	Class I	–
4.3.13.6	Other types ..... :		N

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Clause	Requirement – Test	Result – Remark	Verdict
4.4	Protection against hazardous moving parts		N
4.4.1	General	No hazardous moving parts.	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		P
4.5.1	General	Touchable parts from exceeding certaintemperatures and components, parts, insulation and plastic materials from exceeding temperatures that may degrade electrical, mechanical, or other properties during normal use over the expected life of the equipment.	P
4.5.2	Temperature tests	(see appended table 4.5)	P
	Normal load condition per Annex L..... :		--
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat ..... :		P

4.6	Openings in enclosures		P
4.6.1	Top and side openings		N
	Dimensions (mm) ..... :		–
4.6.2	Bottoms of fire enclosures		N
	Construction of the bottom..... :		–
4.6.3	Doors or covers in fire enclosures	No doors or covers.	N
4.6.4	Openings in transportable equipment		P
4.6.4.1	Contructional design measures		P
	Dimensions(mm)..... :		--
4.6.4.2	Evaluation measures for larger openings		N
4.6.4.3	Use of metallized parts		N
4.6.5	Adhesives for constructional purposes		N
	Conditioning temperature (°C), time (weeks) ..... :		–

4.7	Resistance to fire		P
4.7.1	Reducing the risk of ignition and spread of flame	Use of plastic with the required flammability classes.	P

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Clause	Requirement – Test	Result – Remark	Verdict
	Method 1, selection and application of components wiring and materials	(See appended table 1.5.1)	P
	Method 2, application of all of simulated fault condition tests		N
4.7.2	Conditions for a fire enclosure	See below	P
4.7.2.1	Parts requiring a fire enclosure		N
4.7.2.2	Parts not requiring a fire enclosure	The power supply for LPS, which connected component in the secondary circuit. the component are mounted on PCB material of flammability rating V-1 min. the fire enclosure are not require.	P
4.7.3	Materials		P
4.7.3.1	General	PCB rated at V-0 or better	P
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1	P
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	No air filter assemblies	N
4.7.3.6	Materials used in high-voltage components	No high voltage components.	N

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		**P**
5.1	Touch current and protective conductor current		N
5.1.1	General		N
5.1.2	Equipment under test (EUT)		N
5.1.2.1	Single connection to an a.c. mains supply		N
5.1.2.2	Redundant multiple connections to an a.c. mains supply		N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		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) ..... :		--
	Measured touch current (mA) ..... :		--
	Max. allowed touch current (mA) ..... :		--
	Measured protective conductor current (mA) ..... :		--

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Clause	Requirement – Test	Result – Remark	Verdict
	Max. allowed protective conductor current (mA) :		--
5.1.7	Equipment with touch current exceeding 3.5 mA :		N
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks		N
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution 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
	a)EUT with earthed telecommunication ports..... :		N
	b)EUT whose telecommunication ports have no reference to protective earth		N

5.2	Electric strength		**N**
5.2.1	General	Class III equipment	N
5.2.2	Test procedure		N

5.3	Abnormal operating and fault conditions		**P**
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P
5.3.2	Motors	(See Annex B)	P
5.3.3	Transformers		N
5.3.4	Functional insulation ..... :	See appended table 5.3.	P
5.3.5	Electromechanical components		N
5.3.6	Audio amplifiers in ITE ..... :		N
5.3.7	Simulation of faults	Result see appended table 5.3.	P
5.3.8	Unattended equipment		N
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	P
5.3.9.1	During the tests	No fire, no emit and no shrinkage, distortion or loosening if any enclosure part was noticeable on the equipment.	P
5.3.9.2	After the tests	No fire, no danger.	P

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Clause	Requirement – Test	Result – Remark	Verdict
6	CONNECTION TO TELECOMMUNICATION NETWORKS		**N**
6.1	Protection of telecommunication network service persons, 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	(see appended table 5.2)	N
	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		**N**
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	No insulation breakdown	N
6.2.2.3	Compliance criteria	Compliance	N

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

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		**N**
7.1	Genreal		N
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
7.41	General		N
7.4.2	Voltage surge test		N
7.4.3	Impulse test		N

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Clause	Requirement – Test	Result – Remark	Verdict
A	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		N
A.2.3	Mounting of samples .....:		N
A.2.4	Test flame (see IEC 60695-11-4)		N
	Flame A, B or C .....:		–
A.2.5	Test procedure		N
A.2.6	Compliance criteria		N
	Sample 1 burning time (s) .....:		–
	Sample 2 burning time (s) .....:		–
	Sample 3 burning time (s) .....:		–
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8		N
	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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Clause	Requirement – Test	Result – Remark	Verdict
A.3.2	Test procedure		N
A.3.3	Compliance criterion		N

B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		**P**
B.1	General requirements	See appended table 1.5.1	P
	Position .....:	Ditto.	–
	Manufacturer .....:	Ditto.	–
	Type .....:	Ditto.	–
	Rated values .....:	Ditto.	–
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) .....:		–
	Electric strength test: test voltage (V) .....:		–
B.6	Running overload test for d.c. motors in secondary circuits		N
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		P
B.7.1	General		P
B.7.2	Test procedure:		P
B.7.3	Alternative test procedure		N
B.7.4	Electric strength test; test voltage (V)		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) .....:		–

C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		**N**
	Position .....:		–
	Manufacturer .....:		–
	Type .....:		–
	Rated values .....:		–
	Method of protection.....:		–
C.1	Overload test	(see appended table 5.3)	N

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Clause	Requirement – Test	Result – Remark	Verdict
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)		**N**
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10)		**P**
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		**N**
G.1	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	DC mains supply		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)		**N**
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		**N**
	Metal used .....:		–
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)		**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

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Clause	Requirement – Test	Result – Remark	Verdict
K.6	Stability of operation	(see appended table 5.3)	N

L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		**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

M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		**N**
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) .....:		–
M.3.1.2	Voltage (V) .....:		–
M.3.1.3	Cadence; time (s), voltage (V) .....:		–
M.3.1.4	Single fault current (mA).....:		–
M.3.2	Tripping device and monitoring voltage.....:		N
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
N.2	IEC 60065 impulse test generator		N

P	ANNEX P, NORMATIVE REFERENCES	**P**

Q	ANNEX Q, BIBLIOGRAPHY	**P**

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Clause	Requirement – Test	Result – Remark	Verdict
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

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

T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		**N**

U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		**N**

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		**N**
V.1	Introduction		N
V.2	TN power distribution systems		N
V.3	TT power systems		N
V.4	IT power systems		N

W	ANNEX W, SUMMATION OF TOUCH CURRENTS		**P**
W.1	Touch current from electronic circuits		P
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		N

Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		**N**

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Clause	Requirement – Test	Result – Remark	Verdict
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

Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	N

1.5.1	TABLE: list of critical components			P
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Mark(s) of conformity
Travle charger	SHENZHEN TAIXINDA TECHNOLOGY CO., LTD	X19	Input: 100-240V~,50/60Hz,0.1A output: 5.1V ⎓, 750mA	Evaluated in this report, see attachment A
Battery pack	FOSOP	043040	3.7V, 400mAh	Test with the equipment
-Battery cell	Shenzhen B&K Electronic Co., Ltd	403040AL	Max charging current:800mA; Max charge voltage: 4.2V	UL
-PCB	Vairous	Vairous	V-0, 130°C	UL
-Enclosure	Vairous	Vairous	Min.1.5mm, V-0, 80°C	UL
Backup battery	Shenzhen LISON ALBEAT Technology Co.,Ltd	BY7520350	3.7Vdc,550mAh	Test with the equipment
-Lithium Ion Rechargeable Soft Pack Cell	SHENZHEN B & K ELECTRONIC CO LTD	403442	Max charging current:550mA Max charging voltage:4.5V dc	UL
DC motor	Hui Zhou Stra Cosmos Machinery & Electronics Co., Ltd	1020	DC3V	Test with the equipment
PCB	KUNSHAN HUAXIN CIRCUIT BOARD CO LTD	HX-M	V-0, 130°C	UL
	SHENZHEN BOMIN ELECTRONIC CO LTD	BM-1	V-0, 130℃	UL
		MSD-0620	V-0, 130℃	UL
Enclosure	ASIA INT'L ENTERPRISE (HONG KONG) LTD	K30BN	Min.1.8mm, V-0, 80°C	UL
	SHENZHEN FUHENG PLASTICS PIGMENT CO LTD	FH-201	Min.1.8mm, V-0, 80°C	UL
Note(s):				

1.6.2	TABLE: electrical data (in normal conditions)					P
Fuse #	I rated (A)	U (V)	P (W)	I (A)	I fuse (A)	Condition/status
--	0.5	5.0	1.3	0.32	--	Battery charge only
--	0.5	5.0	1.8	0.39	--	Max normal load and battery charge
Note(s): --						

2.5	TABLE: limited power source measurement		P
	Limits	Measured	Verdict
For battery			
According to Table 2B(normal condition)(Uoc=4.10V)			
Current(A)	≤8	2.64	P

Apparent power(VA)	≤100	7.10	P
According to Table 2B/2C(with P- and B- shorted) (Uoc=4.35V)			
Current(A)	≤8	3.28	P
Apparent power(VA)	≤100	8.35	P
For backup battery pack			
According to Table 2B(normal condition)(Uoc=4.20V)			
Current(A)	≤8	0.62	P
Apparent power(VA)	≤100	0.50	P
According to Table 2B/2C(with P- and B- shorted) (Uoc=4.05V)			
Current(A)	≤8	0.86	P
Apparent power(VA)	≤100	2.77	P
Note(s): The battery pack is fully charged before test. Use a rheostat and a power meter to measure th max. output power.			

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements						N
Clearance cl and creepage distance dcr at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)	
--	--	--	--	--	--	--	
Note(s): --							

2.10.5	TABLE: distance through insulation measurements				N
Distance through insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)	
--	--	--	--	--	
Note(s): --					

4.3.8	TABLE: battery charge/discharge for battery pack			P
Component	Test voltage(VDC)	Abnormal condition	Duration	Observations
Battery charge	4.2	None	7h	Unit continuous operation. Battery pack enclosure: 28.3°C
Battery charge	4.2	P- and B- S-C	7h	Temperature was stable. Battery enclosure: 32.6°C, No hazards.
Battery overcharge	4.2	None	7h	The battery pack no damaged no harzards. Battery pack enclosure:29.5°C
Battery overcharge	4.2	R2 shorted	7h	The battery pack shutdown, no hazards.

Battery discharge	--	None	30 min	The battery pack no damaged, no hazards.
Battery diacharge	--	R2 shorted	1 min	The battery pack shutdown, no hazards
Battery discharge	--	P- and B- S-C	7h	Temperature was stable. Battery enclosure: 28.7°C, No hazards.
Backup Battery	4.2	Overcharge	7h	no hazards. Maximum temperature, battery enclosure:27.1°C
Backup Battery	--	Discharge	1h	no hazards. Maximum temperature, battery enclosure:29.8°C
Note(s): Ambient is 25.2°C				

4.5.1	TABLE: maximum temperatures				P
	Maximum Normal Load and battery charge	DC 5.0V			—
	Battery charge only	--			—
maximum temperature T of part/at:		T (°C)			allowed Tmax (°C)
		a)	b)		
Screen		29.1	28.2		75
Key panel		28.6	27.5		75
Mobile phone enclosure near battery, inside		30.7	29.4		80
Mobile phone enclosure near battery, outside		28.9	27.7		80
Battery body		41.4	37.2		100
Backup battery body		38.2	34.5		100
PCB under battery		36.5	32.8		130
Vibration motor		41.4	31.2		80
Ambient		25.0	25.2		--
Temperature T of winding	$R_1(\Omega)$	$R_2(\Omega)$	T (°C)	Allowed T_{max} (°C)	Insulation Class
—	—	—	—	—	—
Note : --					

4.5.2	TABLE: ball pressure test of thermoplastic parts		P
	allowed impression diameter (mm)	≤2mm	—
Part		Test temperature(°C)	Impression diameter (mm)
Enclosure of phone		75	1.0
Note(s): —			

5.2	TABLE: electric strength tests and impulse tests	N

Test voltage applied between:	Test voltage (V)	Breakdown
--	--	--

Note(s): —

5.3	TABLE: fault condition tests		P
	ambient temperature (°C) .....:	24.8	—
	rated markings of power supply .....:	--	—

No.	Component no.	Fault	Test voltage (V)	Test time	Fuse no.	Result
1	Lithium battery	S-C	3.7	0.5h	--	Lithium battery is no voltage output, and can't work normal again.
2	Battery, C1	S-C	3.7	0.5h	--	C1 damage immediately, No hazards
3	Battery	Reversed polarity charge	3.7	7h	--	Circuit protected. No hazards.
4	Battery	Discharge, O-L	--	2h	--	Circuit protected, no abnormal heating.
5	Battery, P+ to P-	Over discharge	--	2h	--	Circuit protected. No hazards.
6	Backup Battery overcharge	U2 (Pin2- Pin6) s-c	4.2	7h	--	No hazard. Battery:31.5°C
7	Backup Battery discharge	U2 (Pin2- Pin6) s-c	--	1h	--	No hazard. Battery:33.8°C
8	Backup Battery(+/-)	S-C	4.2	1h	--	No hazard. Battery:28.6°C
9	Vibration motor	Block	3.7	7h	--	The vibration motor max temperature is 67.4°C, requirement is <130°C.

Fault: S-C = short circuit, O-C = open circuit O-L= overload

Note:
Ambient: 25.3°C

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1	GENERAL		**P**
1.5	Components		P
1.5.1	General		P
	Comply with IEC 60950 or relevant component standard	Components which were found to affect safety aspects comply with the requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. (see appended table 1.5.1)	P
1.5.2	Evaluation and testing of components	Components which are certified to IEC/EN and/or national standards are used correctly within their ratings. Components not covered by IEC/EN standards are tested under the conditions present in the equipment.	P
1.5.3	Thermal controls	No any thermal controls.	N
1.5.4	Transformers	Transformer used is suitable for their intended application and comply with the relevant requirements of the standard.	P
1.5.5	Interconnecting cables	No such connect.	N
1.5.6	Capacitors bridging insulation	Y1-capacitors CY1 bridge primary to secondary return.	P
1.5.7	Resistors bridging insulation	No bridging resistor	N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable		N
1.5.8	Components in equipment for IT power systems	Equipment was not applied for the IT power system.	N
1.5.9	Surge suppressors	No surge suppressors	N
1.5.9.1	General		N
1.5.9.2	Protection of VDRs		N

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1.5.9.3	Bridging of functional insulation by a VDR		N
1.5.9.4	Bridging od basic insulation by a VDR		N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N

1.6	Power interface		**P**
1.6.1	AC power distribution systems	Classified as TN	P
1.6.2	Input current	(see appended table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment	Not a hand-held equipment.	P
1.6.4	Neutral conductor		P

1.7	Marking and instructions		**P**
1.7.1	Power rating	See below	P
	Rated voltage(s) or voltage range(s) (V) ..... :	Input:100-240Va.c. ,Output:5.1V d.c.	--
	Symbol for nature of supply, for d.c. only ..... :	~	--
	Rated frequency or rated frequency range (Hz) . :	50/60Hz	--
	Rated current (mA or A) ..... :	Input :0.1A, output: 750mA	--
	Manufacturer's name or trademark or identification mark ..... :	SHENZHEN TAIXINDA TECHNOLOGY CO., LTD	--
	Type/model or type reference..... :	X19	--
	Symbol for Class II equipment only ..... :	⧈	--
	Other marking and symbols ..... :	Additional symbols or markings do not cause misunderstanding.	--
1.7.2	Safety instructions and marking	The user's manual contains information for operation, installation and technical.	P
1.7.2.1	General	See below.	P
1.7.2.2	Disconnect devices		P
1.7.2.3	Overcurrent protective device		N
1.7.2.4	IT power distribution systems		N
1.7.2.5	Operator access with a tool		N
1.7.2.6	Ozone		N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N
1.7.4	Supply voltage adjustment ..... :		N

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
	Methods and means of adjustment; reference to installation instructions ..... :	Single supply.	N
1.7.5	Power outlets on the equipment ..... :	No standard power outlets.	N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference) ..... :	Fuse resistor, 10ohm, 1W	P
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	Terminals for d.c. mains supply conductors		N
1.7.8	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 ..... :		N
1.7.9	Isolation of multiple power sources ..... :	Single power sources.	N
1.7.10	Thermostats and other regulating devices	No such devices.	N
1.7.11	Durability	The marking withstands required tests.	P
1.7.11	Removable parts	The markings was attached on main part.	P
1.7.13	Replaceable batteries	No batteries.	N
	Language(s)..... :		--
1.7.14	Equipment for restricted access locations ..... :		N

2	PROTECTION FROM HAZARDS		**P**
2.1	Protection from electric shock and energy hazards	See below.	P
2.1.1	Protection in operator access areas	No hazardous parts in operator access areas	P
2.1.1.1	Access to energized parts	No access with test finger test pin test probe to any parts with only ELV circuits.	P
	Test by inspection ..... :		P
	Test with test finger(Figure 2A) ..... :		P
	Test with test pin (Figure 2B)..... :		P
	Test with test probe (Figure 2C) ..... :	No TNV circuit	N
2.1.1.2	Battery compartments ..... :	No such construction	N

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.1.1.3	Access to ELV wiring	SELV circuits, no ELV wiring in operator accessible area.	N
	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	(see appended table 2.10.5)	–
2.1.1.4	Access to hazardous voltage circuit wiring		N
2.1.1.5	Energy hazards ..... :	No energy harzard in operator access area	P
2.1.1.6	Manual controls		N
2.1.1.7	Discharge of capacitors in equipment	No X-capacitor	N
	Time-constant (s); measured voltage (V) ..... :		--
2.1.1.8	Energy harzards – d.c. mains supply	No d.c. mains supply	N
	a)Capacitor connected to the d.c. mains supply.. :		N
	b)Internal battery connected to the d.c. mains supply..... :		--
2.1.1.9	Audio amplifiers		N
2.1.2	Protection in service access areas		P
2.1.3	Protection in restricted access locations	The unit is not intended to be used in restricted locations.	N

2.2	SELV circuits		**P**
2.2.1	General requirements	SELV CIRCUITS shall exhibit voltages that are safe to touch both under normal operating conditions and after a single fault. If no external load is applied to the SELV CIRCUIT (open circuit), the voltage limits of 2.2.2 and 2.2.3 shall not be exceeded.	P
2.2.2	Voltages under normal conditions (V)..... :	All accessible voltage are less 42.4V peak or 60Vdc and are classified as SELV.	P
2.2.3	Voltages under fault conditions (V)..... :	Internal not voltage raise components cause excessive voltage in accessible SELV circuits. Limits of 71V peak and 120Vdc were not exceeded for a period longer than 0.2s.	P
2.2.4	Connection of SELV circuits to other circuits..... :	The hazardous voltage circuit and SELV having separated by double insulation or reinforced insulation	P

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.3	TNV circuits		**N**
2.3.1	Limits	No TNV circuits.	N
	Type of TNV circuits..... :		N
2.3.2	Separation from other circuits and from accessible parts		N
2.3.2.1	General requipments		N
2.3.2.2	Protection by basic insulation		N
2.3.2.3	Protection by earthing		N
2.3.2.4	Protection by other constructions ..... :		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		**P**
2.4.1	General requirements		P
2.4.2	Limit values		P
	Frequency (Hz) ..... :		--
	Measured current (mA) ..... :		--
	Measured voltage (V)..... :		--
	Measured capacitance (μF) ..... :		--
2.4.3	Connection of limited current circuits to other circuits		P

2.5	Limited power sources		**P**
	a)Inherently limited output	See appended table 2.5.	P
	b)Impedance limited output		N
	c)Regulating network limited output under normal operating and single fault condition		N
	d)Overcurrent protective device limited output	See appended table 2.5.	P
	Max. output voltage (V), max. output current (A), max. apparent power (VA) ..... :	See appended table 2.5.	--
	Current rating of overcurrent protective device (A):		--

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.6	Provisions for earthing and bonding		**N**
2.6.1	Protective earthing	Class II equipment.	N
2.6.2	Functional earthing		N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General		N
2.6.3.2	Size of protective earthing conductors		N
	Rated current (A), cross-sectional area (mm2), AWG..... :		N
2.6.3.3	Size of protective bonding conductors		N
	Rated current (A), cross-sectional area (mm2), AWG..... :		N
2.6.3.4	Resistance of earthing conductors and their terminations, resistance(Ω), voltage drop(V),test current (A), duration(min)..... :		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)..... :		N
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		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 primary circuits	**P**

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.7.1	Basic requirements	Except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 have included as parts of the equipment	P
	Instructions when protection relies on building installation		N
2.7.2	Faults not covered in 5.3.7		P
2.7.3	Short-circuit backup protection	The building installation is considered as providing short circuit backup protection.	P
2.7.4	Number and location of protective devices ..... :		P
2.7.5	Protection by several devices		N
2.7.6	Warning to service personnel ..... :		N

2.8	Safety interlocks		**N**
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	(see appended table 5.2)	N
2.8.8	Mechanical actuators		N

2.9	Electrical insulation		**P**
2.9.1	Properties of insulating materials	Neither natural rubber, Asbestos nor hygroscopic materials are used.	P
2.9.2	Humidity conditioning		P
	Humidity (%),temperature (°C) ..... :	48h, 93%RH, 25°C	--
2.9.3	Grade of insulation	Double，reinforced or function insulation	P
2.9.4	Separation from hazardous voltages		P

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
	Method(s) used ..... :	Method 1 used.	--

2.10	Clearances, creepage distances and distances through insulation		P
2.10.1	General		P
	Frequency ..... :	50/60Hz	P
	Pollution degrees ..... :	Pollution degrees 2	P
	Reduced values for functional insulation	The 5.3.4 c) used, see appended table 5.3	P
	Intervening unconnected conductive parts		N
	Insulation with varying dimensions		N
	Special separation requirements		N
	Insulation in circuits generating staritng pulses		N
2.10.2	Determination of working voltage	(See appended table 2.10.3 and 2.10.4)	P
2.10.3	Clearances		P
2.10.3.1	General		P
2.10.3.2	Mains transient voltages		P
	a)AC mains supply	AC mains supply 240Vac, overvoltage category II	P
	b)Earthed d.c. mains supplies		N
	c)Unearthed d.c. main supplies		N
	d)Battery operation		N
2.10.3.3	Clearances in primary circuits	(See appended table 2.10.3 and 2.10.4)	P
2.10.3.4	Clearances in secondary circuits	(See appended table 2.10.3 and 2.10.4)	P
2.10.3.5	Clearances incircuits having starting pulses		N
2.10.3.6	Transients from a.c. mains supply		N
2.10.3.7	Transients from d.c. mains supply		N
2.10.3.8	Transients from telecommunication networks and cable distribution systems ..... :		N
2.10.3.9	Measurement of transient voltage levels		N
	a)Transients from a mains supply		N
	For a.c. mains supply ..... :		N
	For d.c. mains supply ..... :		N
	b)Transients from		N

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.10.4	Creepage distances	See appended table 2.10.3 and 2.10.4	P
2.10.4.1	General		P
2.10.4.2	Material group and caomparative tracking index	Material group IIIb	P
	CTI tests..... :	UL approved for bobbin of BY1, the CTI test is evaluated by UL	--
2.10.4.3	Minimum creepage distances	(See appended table 2.10.3 and 2.10.4)	N
2.10.5	Solid insulation	The bobbin of BY1and plastic enclosure, optocoupler used as solid insulation	P
2.10.5.1	General		P
2.10.5.2	Distances through insulation	Bobbin of BY1 and enclosure thickness >0.4mm and approved optocoupler IC1 used	P
2.10.5.3	Insulation compound as solid insulation		N
2.10.5.4	Semiconductor device	Cetified optocoupler	P
2.10.5.5	Cemented joints	(See appended table 2.10.3 and 2.10.4)	N
2.10.5.6	Thin sheet material - General	3 layers of insulated tape used between BY1 primary and secondary that as reinforced insulated,3 layers of insulated tape used between BY1 core and surrounding components that as reinforced insulation.	P
2.10.5.7	Separable thin sheet material		P
	Number or layers(pcs) ..... :	3 layers	--
2.10.5.8	Non-separable thin sheet material		N
2.10.5.9	Thin sheet material – standard test procedure		N
	Electric strength test		N
2.10.5.10	Thin sheet material – alternative test procedure		P
	Electric strength test	(See appended table 2.10.5)	--
2.10.5.11	Insulation in wound components		P
2.10.5.12	Wire in wound components		P
	Working voltage ..... :		P
	a)Basic insulation not under stress..... :		N
	b)Basic, suoolemetary, reinforced insulation..... :		P
	c)Compliance with Annex U..... :		P

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
	Two wires in contact inside wound component; angle between 45° and 90°..... :	Providing physical separation by insulation tape	P
2.10.5.13	Wire with solvent-based enamel in wound components	The between primary enamel coil is take into account to be function insulation.	P
	Electric strength test		N
	Rountine test		N
2.10.5.14	Additional insulation in wound components		N
	Working voltage ..... :		N
	-basic insulation not under stress ..... :		N
	-Supplemetary, reinforced insulation ..... :		N
2.10.6	Construction of printed boards		P
2.10.6.1	Uncoated printed boards	(See appended table 2.10.3 and 2.10.4)	P
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 different layers of a printed board		N
	Distance through insulation		N
	Number of insulation layers(pcs) ..... :		N
2.10.7	Component external terminations	No hermetically sealed 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 insulating compound		N
2.10.11	Test for semiconductor devices and cemented joints	Cetified optocoupler	P
2.10.12	Enclosed and sealed parts		N

3	WIRING, CONNECTIONS AND SUPPLY	**P**
3.1	General	P

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
3.1.1	Current rating and overcurrent protection	All internal wires are UL recognized wiring that is PVC insulated, rated VW-1, min.80°C, 300V.	P
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges, heat sinks that could damage the insulation and cause a hazard.	P
3.1.3	Securing of internal wiring	The wires are secured by solder pins and glue, loosening of the terminal connection is unlikely.	P
3.1.4	Insulation of conductors	The insulation of the individual conductors is suitable for the application and the working voltage. For the insulation material see 3.1.1.	P
3.1.5	Beads and ceramic insulators	No such insulators provided.	N
3.1.6	Screws for electrical contact pressure		N
3.1.7	Insulating materials in electrical connections		N
3.1.8	Self-tapping and spaced thread screws		N
3.1.9	Termination of conductors	All conductors are reliable secured	P
	10 N pull test	10N pull is subjected to worst direction for components	P
3.1.10	Sleeving on wiring	Sleeving can not be removed unless breaking or cutting	P

3.2	Connection to a mains supply		**P**
3.2.1	Means of connection ..... :		P
3.2.1.1	Connection to an a.c. mains supply	A mains plug that is part of direct plug-in equipment	P
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		N
	Number of conductors, diameter (mm) of cable and conduits ..... :		–
3.2.4	Appliance inlets		N
3.2.5	Power supply cords		N
3.2.5.1	AC power supply cords		N
	Type ..... :		–
	Rated current (A), cross-sectional area (mm^2), AWG..... :		–
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief		N

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
	Mass of equipment (kg), pull (N) ..... :		–
	Longitudinal displacement (mm) ..... :		–
3.2.7	Protection against mechanical damage		N
3.2.8	Cord guards		N
	D (mm); test mass (g) ..... :		–
	Radius of curvature of cord (mm) ..... :		–
3.2.9	Supply wiring space		N

3.3	Wiring terminals for connection of external conductors		**N**
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 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		**P**
3.4.1	General requirement		P
3.4.2	Disconnect devices	A main supply plug that is part of direct plug-in equipment as the disconnect device	P
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 and d.c. equipment	The disconnect device disconnects both poles simultaneously	P
3.4.7	Three-phase equipment		N
3.4.8	Switches as disconnect devices		N

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
3.4.9	Plugs as disconnect devices	The disconnect device disconnects both poles simultaneously	P
3.4.10	Interconnected equipment		N
3.4.11	Multiple power sources		N

3.5	Interconnection of equipment		**N**
3.5.1	General requirements		N
3.5.2	Types of interconnection circuits ..... :		N
3.5.3	ELV circuits as interconnection circuits		N
3.5.4	Data ports for additional equipment		N

4	PHYSICAL REQUIREMENTS		**P**
4.1	Stability		N
	Angle of 10°		N
	Test: force (N) ..... :		N

4.2	Mechanical strength		P
4.2.1	General	See below	P
4.2.2	Steady force test, 10 N	10N applied to internal components	P
4.2.3	Steady force test, 30 N	No internal enclosure.	N
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	P
4.2.5	Impact test	See clause 4.2.6	N
	Fall test		N
	Swing test		N
4.2.6	Drop test; height(mm) ..... :	Direct plug-in equipment (1m)	P
4.2.7	Stress relief test	75°C, 7 hours	P
4.2.8	Cathode ray tubes	No cathode ray tube.	N
	Picture tube separately certified ..... :	(see separate test report or attached certificate)	N
4.2.9	High pressure lamps	No high pressure lamp	N
4.2.10	Wall or ceiling mounted equipment; force (N) ..... :		N

4.3	Design and construction		P

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
4.3.1	Edges and corners	All edges and corners judged to be sufficiently well rounded.	P
4.3.2	Handles and manual controls; force (N) ..... :		N
4.3.3	Adjustable controls		N
4.3.4	Securing of parts	Screws, nuts, or similar parts are secured and withstand mechanical stress occurring in normal use	P
4.3.5	Connection of plugs and sockets		P
4.3.6	Direct plug-in equipment		P
	Torque..... :	The additional torque that has to be applied to the socket-outlet to maintain the engagement face in the vertical plane shall not exceed 0.25N.m	--
	Compliance with the relevant mians plug standsrd ..... :	EN 50075	P
4.3.7	Heating elements in earthed equipment	No heating elements.	N
4.3.8	Batteries	No battery.	N
	-Overcharging of a rechargeable battery	No hazards.	N
	-Unintentional charging of a non-rechargeable battery		N
	-Reverse charging of a rechargeable battery		N
	-Excessive discharging rate for any battery		N
4.3.9	Oil and grease	No Oil and grease.	N
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N
4.3.11	Containers for liquids or gases	No containers for liquids or gases	N
4.3.12	Flammable liquids..... :	The equipment does not contain flammable liquid.	N
	Quantity of liquid (l)..... :		N
	Flash point (°C)..... :		N
4.3.13	Radiation; type of radiation ..... :		N
4.3.13.1	General		N
4.3.13.2	Ionizing radiation		N
	Measured radiation (pA/kg) ..... :		–
	Measured high-voltage (kV) ..... :		–
	Measured focus voltage (kV) ..... :		–
	CRT markings ..... :		–

Attachment A
Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N
	Part, property, retention after test, flammability classification ..... :		N
4.3.13.4	Human exposure to ultraviolet (UV) radiation ..... :		N
4.3.13.5	Laser (including LEDs)		N
	Laser class ..... :		–
4.3.13.6	Other types ..... :		N

4.4	Protection against hazardous moving parts		N
4.4.1	General	No hazardous moving parts.	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		P
4.5.1	General	Touchable parts from exceeding certain temperatures and components, parts, insulation and plastic materials from exceeding temperatures that may degrade electrical, mechanical, or other properties during normal use over the expected life of the equipment.	P
4.5.2	Temperature tests	(see appended table 4.5)	P
	Normal load condition per Annex L..... :		N
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat ..... :	(see appended table 4.5)	P

4.6	Openings in enclosures		N
4.6.1	Top and side openings	No openings	N
	Dimensions (mm) ..... :		–
4.6.2	Bottoms of fire enclosures	No opennings	N
	Construction of the bottom..... :		–
4.6.3	Doors or covers in fire enclosures		N
4.6.4	Openings in transportable equipment		N

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Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
4.6.4.1	Contructional design measures		N
	Dimensions(mm)..... :		N
4.6.4.2	Evaluation measures for larger openings		N
4.6.4.3	Use of metallized parts		N
4.6.5	Adhesives for constructional purposes		N
	Conditioning temperature (°C), time (weeks) ..... :		–

4.7	Resistance to fire		P
4.7.1	Reducing the risk of ignition and spread of flame	Use of materials with the required flammability classes.	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)	P
4.7.2	Conditions for a fire enclosure	See appended table 1.5.1	P
4.7.2.1	Parts requiring a fire enclosure		P
4.7.2.2	Parts not requiring a fire enclosure		N
4.7.3	Materials		P
4.7.3.1	General	PCB rated V-1, fire enclosure used	P
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1	P
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	Internal components except small parts are V-2 or better.	P
4.7.3.5	Materials for air filter assemblies	No air filter assemblies	N
4.7.3.6	Materials used in high-voltage components	No high voltage components.	N

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		**P**
5.1	Touch current and protective conductor current		P
5.1.1	General		P
5.1.2	Equipment under test (EUT)	EUT has only one mains connection only	P
5.1.2.1	Single connection to an a.c. mains supply		P
5.1.2.2	Redundant multiple connections to an a.c. mains supply		N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N

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Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
5.1.3	Test circuit	Equipment is tested using the test circuit in figure 5A	P
5.1.4	Application of measuring instrument		P
5.1.5	Test procedure	The touch current was measured from supply to 10cm by 20cm metal foil wrapped on accessible non-conductive parts	P
5.1.6	Test measurements		P
	Test voltage (V) ..... :	264V/50Hz	--
	Measured touch current (mA) ..... :	0.02mA	--
	Max. allowed touch current (mA) ..... :	0.25mA	--
	Measured protective conductor current (mA) ..... :		--
	Max. allowed protective conductor current (mA) :		--
5.1.7	Equipment with touch current exceeding 3.5 mA :		N
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks		N
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system		N
	Test voltage (V) ..... :		N
	Measured touch current (mA) ..... :		N
	Max. allowed touch current (mA) ..... :		N
5.1.8.2	Summation of touch currents from telecommunication networks		N
	a)EUT with earthed telecommunication ports..... :		N
	b)EUT whose telecommunication ports have no reference to protective earth		N

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

5.3	Abnormal operating and fault conditions		**P**
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P
5.3.2	Motors	No motor.	N
5.3.3	Transformers	(See appended Annex C)	P

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Test Report of Adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
5.3.4	Functional insulation ..... :	Short-circuit test, results see appended table 5.3.	P
5.3.5	Electromechanical components		N
5.3.6	Audio amplifiers in ITE		N
5.3.7	Simulation of faults	Result see appended table 5.3.	P
5.3.8	Unattended equipment		N
5.3.9	Compliance criteria for abnormal operating and fault conditions		P
5.3.9.1	During the tests	No fire, no emit and no shrinkage, distortion or loosening if any enclosure part was noticeable on the equipment.	P
5.3.9.2	After the tests	No fire, no danger.	P

6	CONNECTION TO TELECOMMUNICATION NETWORKS		**N**
6.1	Protection of telecommunication network service persons, 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	(see appended table 5.2)	N
	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		**N**
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	No insulation breakdown	N
6.2.2.3	Compliance criteria	Compliance	N

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

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS	**N**

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
7.1	Genreal		N
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
7.41	General		N
7.4.2	Voltage surge test		N
7.4.3	Impulse test		N

Attachment A
Test Report of adapter

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
A	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		N
A.2.3	Mounting of samples ..... :		N
A.2.4	Test flame (see IEC 60695-11-4)		N
	Flame A, B or C ..... :		–
A.2.5	Test procedure		N
A.2.6	Compliance criteria		N
	Sample 1 burning time (s)..... :		–
	Sample 2 burning time (s)..... :		–
	Sample 3 burning time (s)..... :		–
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8		N
	Sample 1 burning time (s)..... :		–
	Sample 2 burning time (s)..... :		–
	Sample 3 burning time (s)..... :		–

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
A.3	Hot flaming oil test (see 4.6.2)		N
A.3.1	Mounting of samples		N
A.3.2	Test procedure		N
A.3.3	Compliance criterion		N

B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		**N**
B.1	General requirements		N
	Position ..... :		–
	Manufacturer ..... :		–
	Type ..... :		–
	Rated values ..... :		–
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) ..... :		–
	Electric strength test: test voltage (V) ..... :		–
B.6	Running overload test for d.c. motors in secondary circuits		N
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		N
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) ..... :		–

C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		**P**
	Position ..... :	Soldered on PCB	–
	Manufacturer ..... :	SHENZHEN TIANYIN ELECTRONICS CO., LTD.	–
	Type ..... :	182-0113006R	–

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Clause	Requirement – Test	Result – Remark	Verdict
	Rated values ..... :	Switching mode transformer	–
	Method of protection ..... :	Protective circeit	–
C.1	Overload test	Transformers for switch mode power supply units are tested in the complete power unit or in the complete equipment .test load are applied to the output of the power supply unit	P
C.2	Insulation	(see appended table 5.2)	P
	Protection from displacement of windings ..... :		P

D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		**P**
D.1	Measuring instrument		P
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)	**P**

G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		**N**
G.1	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	DC mains supply		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)	**N**

J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		**N**
	Metal used ..... :		–

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Clause	Requirement – Test	Result – Remark	Verdict
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)		**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	(see appended table 5.3)	N
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		**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		P
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		**N**
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) ..... :		–
M.3.1.2	Voltage (V) ..... :		–
M.3.1.3	Cadence; time (s), voltage (V) ..... :		–
M.3.1.4	Single fault current (mA) ..... :		–
M.3.2	Tripping device and monitoring voltage ..... :		N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N
M.3.2.2	Tripping device		N

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Clause	Requirement – Test	Result – Remark	Verdict
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
N.2	IEC 60065 impulse test generator		N

P	ANNEX P, NORMATIVE REFERENCES	**P**

Q	ANNEX Q, BIBLIOGRAPHY	**P**

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

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

T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)	**N**

U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)	**N**

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		**N**
V.1	Introduction		N
V.2	TN power distribution systems		N
V.3	TT power systems		N
V.4	IT power systems		N

W	ANNEX W, SUMMATION OF TOUCH CURRENTS		**P**
W.1	Touch current from electronic circuits		P

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Clause	Requirement – Test	Result – Remark	Verdict
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)		**P**
X.1	Determination of maximum input current		P
X.2	Overload test procedure		P

Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		**N**
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

Z	**ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)**	N

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1.5.1	TABLE: list of critical components			P
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Mark(s) of conformity
Internal input wire	--	1007	VW-1, 20AWG, 80°C, 300V	UL
Output wire	KAI TAT INDUSTRIES CO	2464	VW-1, 22AWG, 80°C, 300V	UL
Fuse resistor	Shenzhen Baiheng Electronics Co., Ltd.	--	10ohm,1W	Test with appliance
Photocoupler	Bright Led	BPC-817S	Di.≥0.4mm, 100°C	VDE
Transformer	Guoya Electronic Co., ltd.	147-712513-04	I/P: 100-240V~, 50/60Hz, O/P: DC5V	Test with appliance
-Core	HEN LI	--	FERRITE CORE	--
-Bobbin	XIAMEN ERHUA CHEMICAL CO LTD	WD30+TD10	V-0, 150°C	UL
-Tape	SHENZHEN MEIXIN ELECTRONIC CO LTD	MXCU-110.210	130°C	UL
-Wire	CHAU'S ELECTRICAL CO LTD	2UEW	Polyurethane, 130°C	UL
-Varnish	3M COMPANY	Scotchcast 265	MW35, 130°C	UL
PCB	TECHNI TECHNOLOGY LTD	CHG5068-38	V-0, 130°C	UL
Enclosure	CHI MEI	PA-765A(+)	2.1mm, V-0, 80°C	UL
Note(s):				

1.6.2	TABLE: electrical data (in normal conditions)					P
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status
90V/50Hz	0.089	--	3.8	--	0.089	Maximum normal load.
90V/60Hz	0.089	--	3.8	--	0.089	Maximum normal load.
100V/50Hz	0.085	0.1	3.9	--	0.085	Maximum normal load.
100V/60Hz	0.084	0.1	3.9	--	0.084	Maximum normal load.
240V/50Hz	0.052	0.1	4.9	--	0.052	Maximum normal load.
240V/60Hz	0.053	0.1	5.0	--	0.053	Maximum normal load.
264V/50Hz	0.049	--	5.3	--	0.049	Maximum normal load.
264V/60Hz	0.048	--	5.4	--	0.048	Maximum normal load.
Note(s): --						

2.5	TABLE: limited power source measurement	P

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	Limits	Measured	Verdict
According to Table 2B(normal condition)(Uoc=5.2V)			
Current(A)	≤8	0.65	P
Apparent power(VA)	≤100	3.64	P
According to Table 2B/2C(with D3 shorted)(Uoc=5.37V)			
Current(A)	≤8	0.74	P
Apparent power(VA)	≤100	3.82	P
According to Table 2B (single fault condition short R2) (Uoc=5.35Vdc)			
Current(A)	≤8	1.37	P
Apparent power(VA)	≤100	3.90	P
Note(s):			

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements	P

Clearance cl and creepage distance dcr at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)
Primary traces of different polarity before fuse	<420V	<250	1.5	3.0	2.5	3.0
Tranc under fuse	<420V	<250	1.5	3.2	2.5	3.2
pri. Traces → sec. traces	**<420V**	**<250**	**4.0**	↓	**5.0**	↓
-Under T1	--	--	4.0	7.0	5.0	7.0
-Under U1	--	--	4.0	6.6	5.0	6.6
-Under CY1	--	--	4.0	7.0	5.0	7.0
Note(s): --						

2.10.5	TABLE: distance through insulation measurements	P

Distance through insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)
Primary circuit to accessible enclosure	240	3000	0.4	Enclosure 2.1
Photocoupler	<250	3000	0.4	≥0.4
Bobbin	240	3000	0.4	Min. 1.0
2 layers of insulating tape	240	3000	3 layers	3 layers
Note(s): --				

4.5	TABLE: maximum temperatures	P

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	test voltage (V) ..... :	a).100V×0.9 b).240V×1.1	—

maximum temperature T of part/at::	T (°C)		allowed Tmax (°C)
	a)	b)	
Enclosure	37.9	39.9	80
Winding	64.6	68.3	130
Core	64.8	68.0	130
PCB near Q1	55.2	57.3	130
C1 body	46.4	49.1	85
Internal enclosure near transformer	59.7	61.2	80
Output wire	38.3	41.8	80
Ambient	25.2	25.3	--

Temperature T of winding	$R_1(\Omega)$	$R_2(\Omega)$	T (°C)	Allowed T_{max} (°C)	Insulation Class
—	—	—	—	—	—

Note : --

4.5.5	TABLE: ball pressure test of thermoplastic parts		**P**
	allowed impression diameter (mm)	≤2 mm	—

Part	Test temperature(°C)	Impression diameter (mm)
Bobbin	125	0.7
PCB	125	0.6
Enclosure	125	1.5

Note(s): —

5.2	TABLE: electric strength tests and impulse tests	**P**

Test voltage applied between:	Test voltage (V)	Breakdown
L/N and adapter enclosure	3000	No breakdown
L/N and output	3000	No breakdown
T1 primary to secondary	3000	No breakdown

Note(s): —

5.3	TABLE: fault condition tests		**P**
	ambient temperature (°C) .....:	25.1	—

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	rated markings of power supply .....:	--	--

No.	Component no.	Fault	Test voltage (V)	Test time	Fuse no.	Result
1	Output	S-C	264V	2h	F1	No output. LED Indicator is off and input power is 0, no hazards.
2	Output	O-L	264V	7h	F1	Until shutdown. Max. Temprature T1 coil= 132.2°C, no hazards.
3	Transformer output	S-C	264V	<1min	F1	Unit shutdown, no hazards.
4	D1	S-C	264V	1min	F1	No output, after 1min, fuse opened.
5	Q2 pin B-E	S-C	264V	20min	F1	Unit shutdown, no hazards.
6	Q2 pin B-C	S-C	264V	1S	F1	Unit RF1 open, Q1 damaged, no hazard.
7	Q2 pin C-E	S-C	264V	1S	F1	Unit RF1 open, Q1 damaged, no hazard.
8	C1	S-C	264V	5min	F1	No output, no harzards.
9	U1 pin1-2	S-C	264V	1S	F1	Unit RF1 open, R2 damaged, no high temperature, no hazard.
10	U1 pin 1	O-C	264V	1S	F1	Unit RF1 open, R2 damaged, no high temperature, no hazard.
11	U1 pin 3	O-C	264V	1S	F1	Unit RF1 open, no high temperature, no hazard.
12	U1 pin 3-4	S-C	264V	30min	F1	Rf1 shut down immediatrly, no damaged, no high temperture, no hazard.

Fault: S-C = short circuit, O-C = open circuit O-L= overload

Note: --

Attachment B

Maximum sound pressure Test

Maximum sound pressure Measurement

1. Limits of Mains Terminal Disturbance Voltage

Results measured by the method described in this standsrd shall not deliver more than 100dB for maximum SPL.

2. EUT Setup and Operating Conditions

Device under test (DUT) shall be powered by a stabilized power supply, at their nominal supply voltage, with a tolerance of ±3% .

When testing devices, all measurements shall be taken at the following settings:

- Noise reduction system: OFF

- Volume Control: Maximum

- Tone Control: Adjusted in order to the maximize the sound pressure level

The EUT is working at audio play mode during the test.

The test signal is a stationary wide-band signal, the spectral content of which is representative of the musical signals. The test signal shall be recalled at an RMS value of -10dB (ref 0 dB full scale).

For FM radio, The test signal applied at the input of the RF generator shall be set at an RMS value of -6 dB related to the amplitude of a sinusoidal waveform at 250Hz, producing a peak to peak deviation of ± 75KHz.

3. Test Method

a. The sound pressure level produced by headphones or earphones can be measured by sucjective methods or by objective methods.

b. The subjective method becomes inadequate and hazardous when high levels are to be evaluated. The objective method can give both a good reproducibility and a good correlation with subjective tests.

c. The method of EN 50332-1 is based on the use of Head and Torso Simulator (HATS) in accordance with IEC 60959. This manikin is fitted with an occluded ear simulator and an ear canal extension.

d. The sound pressure level measured by the ear sinmulator microphone represents the pressure found at eardrum level and differs from that of the free fied pressure by the HATS transfer function. In order to keep good correlation with moise measurements and epidemiological studies on hearing impairment, raw measurement data will be converted into free field values. This will be done by subtracting the free field frequency response of the HATS expressed in third octave frequency bands.

e. Weighting curve A shall be used in order to conform to current regulationa and standards.

f. The result are given as ”free field related A-weighted equivalent continuous sound pressure levels”.

g. Test are repeated five times for each ear, and the headphone shall be removed and repositioned before each measurement.

h. The maximum sound pressure level considered as the test result is the mean value of all measurements.

4. Test Result

E Q Mode	Channel	Criterion request (mean value)	Unit	Test Result					
				1	2	3	4	5	Mean Value
Normal	L	≤100	dB	93.6	94.0	94.9	94.6	94.1	94.2
	R	≤100	dB	94.7	94.3	93.4	94.8	94.3	94.3
FM radio	L	≤100	dB	93.6	94.1	94.8	94.4	94.3	94.2
	R	≤100	dB	94.6	94.2	93.6	94.7	94.4	94.3

5.List Of Equipments Used

No.	Name	Model No.	Serial No.
1	Electro acoustic Devices Tester	CRY6125	01B68
2	Auris Simulator	ZD25BH62	--
3	Sound Pressure Tester	TES-1350	A0103113
4	SYSTEM TWO CASCADE	PLUS-2722	A0304271
5	Digital Real-Time OSCILLOSCOPE	TDS380	A9809080
6	MP3 TEST DISC	CRY6125	--
7	FM Signal Generator	SG-5155	S105236
8	HATS	4128C	A0711508

Note: Equipments listed above have been calibrated and are in the period of validation.

Attachment C

Photos of product

Fig.1- Overview

Fig.2- Overview

Fig.3-Overview

Fig.4- Overview

Fig.5- Overview

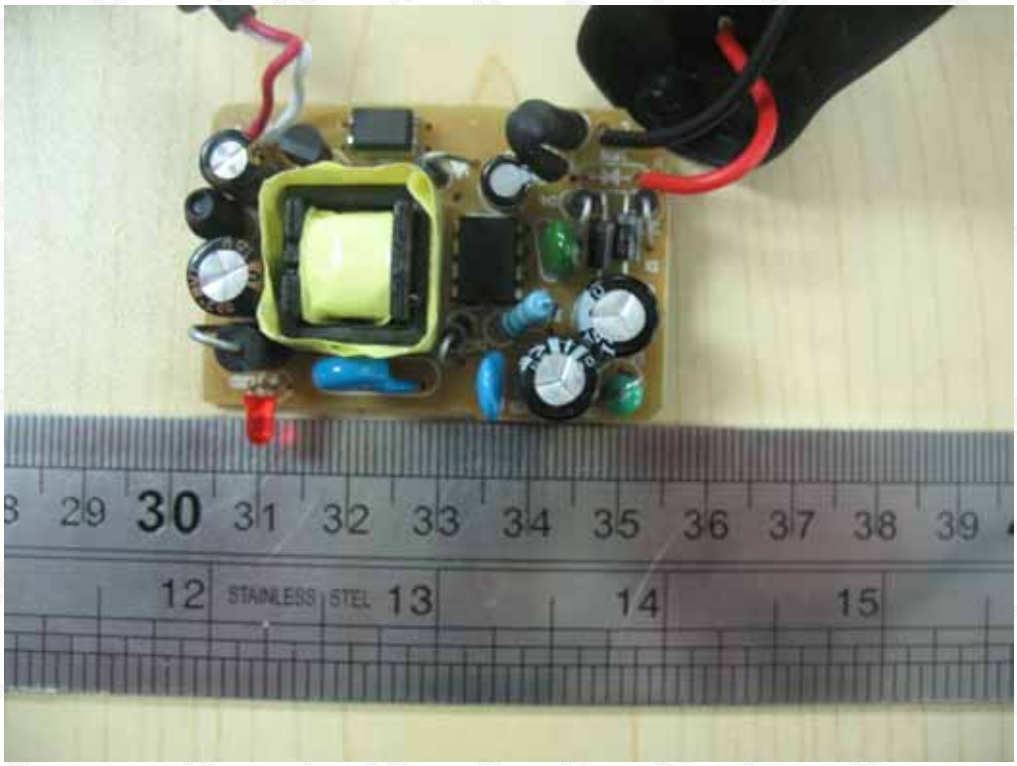

Fig.6 - Top circuit

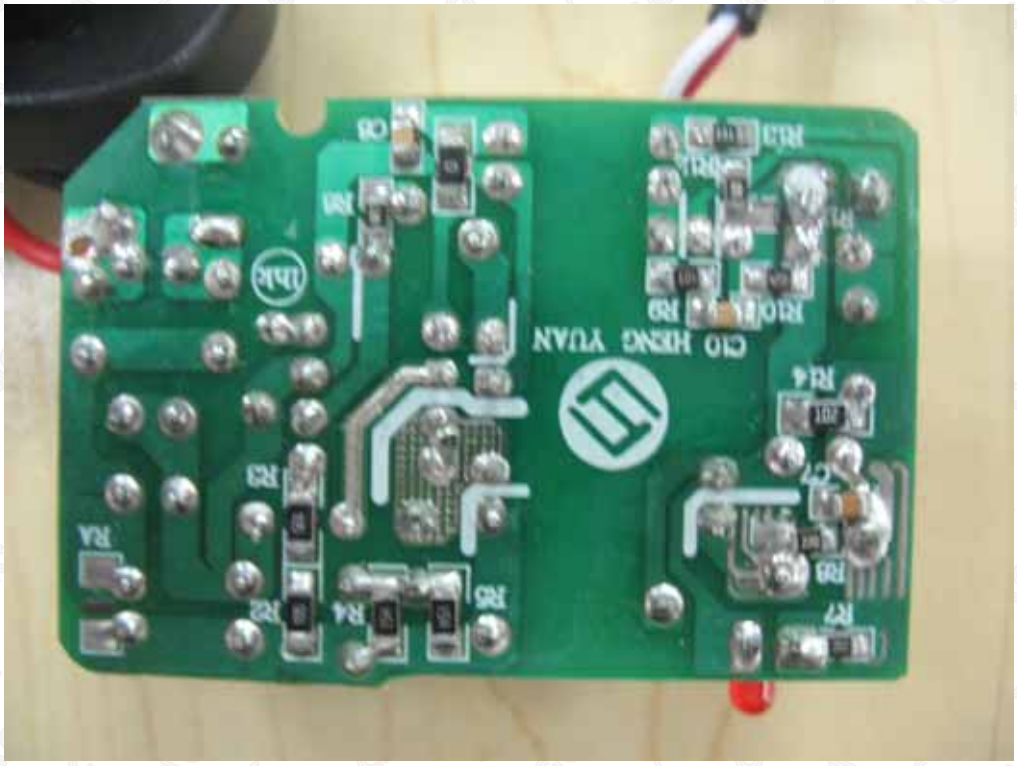

Fig.7 - Bottom circuit

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