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Test Report

IEC 60950-1:2012
Information technology equipment - Safety requirements

TEST REPORT #: **WCT 15/1346**

CLIENT:	*SABS NETFA* *PO Box 144* *Olifantsfontein* *1665* *Attention: Igor Djurdjevic* *Order #: 162247 ON* *Date of Order: 22 October 2015*
SAMPLE:	*USB Power Supply built-into Switched Socket-outlet*
TEST SPECIFICATION:	*IEC 60950-1:2005 + A1:2012/* *SANS 60950-1:2010*
SUMMARY OF RESULTS:	*Complied*
DATED STARTED:	*2015-11-10*
DATED COMPLETED:	*2015-11-18*
DATE OF ISSUE:	*2015-11-18*

TESTED: GH Holtzhausen (Technical Signatory)

APPROVED: LP Kunsis (Technical Signatory)

NOTE:
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1. DESCRIPTION OF SAMPLE

MANUFACTURER:	***OMY***
BRAND NAME & MODEL:	***OMY; OMY-16-SA-22***
SERIAL #:	-
COUNTRY OF ORIGIN:	***People's Republic of China***
RATED INPUT:	***Class I 16 A***
RATED VOLTAGE:	***Input : AC 110 - 250 V 50/60 Hz*** ***Output: 5 V DC 2 100 mA***

2. ABBREVIATIONS:

TEST DOES NOT APPLY:	**N/A**
SAMPLE MEET REQUIREMENTS(COMPLY):	**C**
SAMPLE DOES NOT MEET REQUIREMENTS(FAIL):	**F**
NOT TESTED:	**N/T**

3. SYMBOLS

■ Tests are not included in the SANAS Accreditation Schedule for our laboratory.

▲ Results from sub-contracted tests and other accredited test laboratories.

◆ Opinions and interpretations expressed herein are outside the scope of SANAS accreditation

4. GENERAL REMARKS

*** Only a brief description of the requirements, measurements, etc. is given to indicate the nature of these. Consult the specification for details.**

*** The sections and subsections refer to in this report, are numbered as the test specification.**

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*** For sample identification, please see Appendix 1.**

5. TEST CONDITIONS

Climatic conditions that prevailed during the tests:

	Maximum	Minimum	Limits
Ambient temperature	**25°C**	**20°C**	**25 °C ± 10 °C**
Relative humidity	**56%**	**35%**	**Below 75 % RH**

6. CONDITION OF SAMPLE(S)

New sample, in working condition, was received for testing.

Particulars: test item vs. test requirements	
Equipment mobility .....:	**movable / hand-held / transportable /stationary / direct plug-in / <u>for building-in</u>**
Connection to mains .....:	**pluggable equipment: type A/ type B <u>permanent connection</u>/ detachable power supply cord/ non-detachable power supply cord/ not directly connected to mains**
Operating condition .....:	**<u>continuous</u> / short-time / intermittent**
Mains supply tolerance (%) .....:	**99 V to 265 Vac**
Tested for IT power systems .....:	**Yes / <u>No</u>**
IT testing, phase-phase voltage (V):	**-**
Overvoltage Category .....:	**OVC I/ <u>OVC II</u>/ OVC III/ OVC IV/ other :**
Pollution Degree .....:	**PD 1/ <u>PD 2</u>/ PD 3**
Class of equipment .....:	**<u>Class I</u> / Class II/ Class III**
Mass of equipment (kg) .....:	**152 g**
Protection against ingress of water .....:	**Ordinary**

General product information:

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
1	GENERAL		C
1.5	Components		C
1.5.1	General		C
	Comply with IEC 60950 or relevant component standard	(see appended table 1.5.1)	C
1.5.2	Evaluation and testing of components		C
1.5.3	Thermal controls		N/A
1.5.4	Transformers	See Annex C	C
1.5.5	Interconnecting cables	USB Connection	C
1.5.6	Capacitors in primary circuits .....:	Certified	C
1.5.7	Double insulation or reinforced insulation bridged by components		C
1.5.7.1	General		C
1.5.7.2	Bridging capacitors		C
1.5.7.3	Bridging resistors		N/A
1.5.7.4	Accessible parts		N/A
1.5.8	Components in equipment for IT power systems	Not for IT Power Systems	N/A
1.5.9	Surge suppressors		N/A
1.5.9.1	General		N/A
1.5.9.2	Protection of VDRs		N/A
1.5.9.3	Bridging of functional insulation by a VDR		N/A
1.5.9.4	Bridging of basic insulation by a VDR		N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N/A
1.6	Power interface		C
1.6.1	AC power distribution systems		C
1.6.2	Input current	(see appended table 1.6.2)	C
1.6.3	Voltage limit of hand-held equipment		N/A
1.6.4	Neutral conductor		C

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
1.7	Marking and instructions		C
1.7.1	Power rating and identification markings		C
	Rated voltage(s) or voltage range(s) (V) .....:	110 - 250 V	C
	Symbol for nature of supply, for d.c. only .....:	DC Output	C
	Rated frequency or rated frequency range (Hz) :	50/ 60 Hz	C
	Rated current (mA or A) .....:	16 A	C
	Manufacturer's name or trademark or identification mark .....:	OMY	C
	Type/model or type reference .....:	OMY-16-SA-22	C
	Symbol for Class II equipment only .....:	Class I	N/A
	Other symbols .....:		N/A
	Certification marks .....:		N/A
1.7.2	Safety instructions	Provided	C
1.7.2.1	General		C
1.7.2.2	Disconnect devices	Switch	C
1.7.2.3	Overcurrent protective device	Part of Design	C
1.7.2.4	IT power distribution systems		N/A
1.7.2.5	Operator access with a tool		N/A
1.7.2.6	Ozone		N/A
1.7.3	Short duty cycles	Continuous Operation	N/A
1.7.4	Supply voltage adjustment .....:	Auto Ranging	N/A
	Methods and means of adjustment; reference to installation instructions .....:		N/A
1.7.5	Power outlets on the equipment .....:	Clearly Marked	C
1.7.6	Fuse identification .....:		N/A
1.7.7	Wiring terminals	Clearly Marked	C
1.7.7.1	Protective earthing and bonding terminals .....:		C
1.7.7.2	Terminal for a.c. mains supply conductors	Indicated	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	Standard USB	C
1.7.8	Controls and indicators		C
1.7.8.1	Identifications, location and marking .....:		C
1.7.8.2	Colours.....:		N/A
1.7.8.3	Symbols according to IEC 60417 .....:	Correct	C

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
1.7.8.4	Markings using figures .....:		N/A
1.7.9	Isolation of multiple power sources .....:	Single Power Source	N/A
1.7.10	Thermostats and other regulating devices	None	N/A
1.7.11	Durability		C
1.7.12	Removable parts		C
1.7.13	Replaceable batteries	No Batteries	N/A
	Language .....:		—
1.7.14	Equipment for restricted access locations .....:	Not for RAL	N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
2	PROTECTION FROM HAZARDS		C
2.1	Protection from electric shock and energy hazards		C
2.1.1	Protection in operator access areas		C
2.1.1.1	Access to energized parts		C
	Test by inspection .....:		C
	Test with test finger (Figure 2A).....:		C
	Test with test pin (Figure 2B).....:		C
	Test with test probe (Figure 2C).....:		N/A
2.1.1.2	Battery compartments .....:	No TNV	N/A
2.1.1.3	Access to ELV wiring		N/A
	Working voltage (V); minimum distance (mm) through insulation	(see appended table 2.10.5)	—
2.1.1.4	Access to hazardous voltage circuit wiring	Not Hazardous	C
2.1.1.5	Energy hazards .....:	(see appended table 2.1.1.5 c1 & 2.1.1.5 c2)	N/A
2.1.1.6	Manual controls	Not Conductive	C
2.1.1.7	Discharge of capacitors in equipment		C
	Time-constant (s); measured voltage (V) .....:	1 s; 18 V	—
2.1.1.8	Energy hazards – d.c. mains supply		N/A
	a) Capacitor connected to the d.c. mains supply:		N/A
	b) Internal battery connected to the d.c. mains supply .....:		N/A
2.1.1.9	Audio amplifiers .....:		N/A
2.1.2	Protection in service access areas	No Service Areas	N/A
2.1.3	Protection in restricted access locations	Not for RAL	N/A

2.2	SELV circuits		C
2.2.1	General requirements	(see appended table 2.2)	C
2.2.2	Voltages under normal conditions (V) .....:		C
2.2.3	Voltages under fault conditions (V) .....:		C
2.2.4	Connection of SELV circuits to other circuits ....:	All SELV Connection	C

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
2.3	TNV circuits		N/A
2.3.1	Limits	No TNV	N/A
	Type of TNV circuits .....:		—
2.3.2	Separation from other circuits and from accessible parts		N/A
2.3.2.1	General requirements		N/A
2.3.2.2	Protection by basic insulation		N/A
2.3.2.3	Protection by earthing		N/A
2.3.2.4	Protection by other constructions .....:		N/A
2.3.3	Separation from hazardous voltages		N/A
	Insulation employed .....:		—
2.3.4	Connection of TNV circuits to other circuits		N/A
	Insulation employed .....:		—
2.3.5	Test for operating voltages generated externally		N/A
2.4	Limited current circuits		N/A
2.4.1	General requirements	No LCC	N/A
2.4.2	Limit values	(see appended table 2.4.2)	N/A
	Frequency (Hz) .....:		—
	Measured current (mA) .....:		—
	Measured voltage (V) .....:		—
	Measured capacitance (µF) .....:		—
2.4.3	Connection of limited current circuits to other circuits		N/A
2.5	Limited power sources		N/A
	Inherently limited output		N/A
	Impedance limited output		N/A
	Overcurrent protective device limited output		N/A
	Regulating network limited output under normal operating and single fault condition		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
	Regulating network limited output under normal operating conditions and overcurrent protective device limited output under single fault condition	(see appended table 2.5)	N/A
2.6	Provisions for earthing and bonding		C
2.6.1	Protective earthing	USB Class II Construction	C
2.6.2	Functional earthing		N/A
2.6.3	Protective earthing and protective bonding conductors		C
2.6.3.1	General		C
2.6.3.2	Size of protective earthing conductors		N/A
	Rated current (A), cross-sectional area (mm²), AWG .....:		—
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm²), AWG .....:		—
2.6.3.4	Resistance (Ω) of earthing conductors and their terminations, test current (A) .....:	(see appended table 2.6.3.4)	C
2.6.3.5	Colour of insulation .....:		N/A
2.6.4	Terminals		C
2.6.4.1	General		C
2.6.4.2	Protective earthing and bonding terminals	Socket-outlet	C
	Rated current (A), type of nominal thread diameter (mm) .....:		—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5	Integrity of protective earthing		N/A
2.6.5.1	Interconnection of equipment		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A
2.6.5.3	Disconnection of protective earth		N/A
2.6.5.4	Parts that can be removed by an operator		N/A
2.6.5.5	Parts removed during servicing		N/A
2.6.5.6	Corrosion resistance		N/A
2.6.5.7	Screws for protective bonding		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A
2.7	Overcurrent and earth fault protection in primary circuits		C
2.7.1	Basic requirements		C
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not covered in 5.3		C
2.7.3	Short-circuit backup protection	Fusing Resistor	C
2.7.4	Number of location of protective devices .....:	1, Input	C
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel .....:		N/A
2.8	Safety interlocks		N/A
2.8.1	General principles	No Interlocks	N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches and relays and their related circuits		N/A
2.8.7.1	Separation distances for contact gaps and their related circuits(mm).....:		N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test	(see appended table 5.2	N/A
2.8.8	Mechanical actuators		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
2.9	Electrical insulation		C
2.9.1	Properties of insulating materials		C
2.9.2	Humidity conditioning	USB Power Circuit	C
	Humidity (%) .....:	91 - 95	—
	Temperature (˚C) .....:	30	—
2.9.3	Grade of insulation	Double/ Reinforced Insulation	C
2.9.4	Separation from hazardous voltages		C
	Method(s) used .....:	1)	C

2.10	Clearances, creepage distances and distances through insulation		C
2.10.1	General		C
2.10.1.1	Frequency .....:	50/ 60	N/A
2.10.1.2	Pollution degrees .....:	II	C
2.10.1.3	Reduced values for functional insulation		N/A
2.10.1.4	Intervening unconnected conductive parts		N/A
2.10.1.5	Insulation in circuits generating starting pulses		N/A
2.10.1.6	Special separation requirements		N/A
2.10.1.7	Insulation in circuits generating starting pulses		N/A
2.10.2	Determination of working voltage	(see appended table 2.10.2)	C
2.10.2.1	General		C
2.10.2.2	RMS working voltage	250	C
2.10.2.3	Peak working voltage	420	C
2.10.3	Clearances		C
2.10.3.1	General		C
2.10.3.2	Mains transient voltages	(see appended table 2.10.3 and 2.10.4)	C
	a) AC mains supply .....:	2 500 V	C
	b) Earthed d.c. mains supplies .....:		N/A
	c) Unearthed d.c. mains supplies .....:		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
	d) Battery operation .....:		N/A
2.10.3.3	Clearances in primary circuit	(see appended table 2.10.3 and 2.10.4)	C
2.10.3.4	Clearances in secondary circuits	(see appended table 2.10.3 and 2.10.4)	C
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply .....:	2 500	C
2.10.3.7	Transients form d.c. mains supply .....:		N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems .....:		N/A
2.10.3.9	Measurement of transient voltage levels		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply .....:		N/A
	For a d.c. mains supply .....:		N/A
	b) Transients from a telecommunication network		N/A
2.10.4	Creepage distances	(see appended table 2.10.3 and 2.10.4)	C
2.10.4.1	General		C
2.10.4.2	Material group and comparative tracking index	IIIb	C
	CTI tests .....:		—
2.10.4.3	Minimum creepage distances	(see appended table 2.10.3 and 2.10.4)	C
2.10.5	Solid insulation		C
2.10.5.1	General		C
2.10.5.2	Distance through insulation		C
2.10.5.3	Insulation compound as solid insulation		C
2.10.5.4	Semiconductor devices		N/A
2.10.5.5	Cemented joints	(see appended table 2.10.3 and 2.10.4)	N/A
2.10.5.6	Thin sheet material - General		C
2.10.5.7	Separable thin sheet material		C

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
	Number of layers (pcs) .....:		—
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material - standard test procedure		C
	Electric strength test	(see appended table 2.10.5)	—
2.10.5.10	Thin sheet material - alternative test procedure		N/A
	Electric strength	(see appended table 2.10.5)	—
2.10.5.11	Insulation in wound components		N/A
2.10.5.12	Wire in wound components		N/A
	Working voltage .....:		N/A
	a) Basic insulation not under stress .....:		N/A
	b) Basic, supplementary, reinforced insulation .:		N/A
	c) Compliance with Annex U .....:		N/A
	Two wires in contact inside wound component; angle between 45˚ and 90˚ .....:		N/A
2.10.5.13	Wire with solvent-based enamel in wound components		N/A
	Electric strength	(see appended table 2.10.5)	—
	Routine test		N/A
2.10.5.14	Additional insulation in wound components		N/A
	Working voltage .....:		N/A
	a) Basic insulation not under stress .....:		N/A
	b) Supplementary, reinforced insulation .....:		N/A
2.10.6	Construction printed boards		C
2.10.6.1	Uncoated printed boards	(see appended table 2.10.3 and 2.10.4)	C
2.10.6.2	Coated printed boards	(see appended table 2.10.3 and 2.10.4)	N/A
2.10.6.3	Insulation between conductors on the same inner surface of printed board	(see appended table 2.10.3 and 2.10.4)	N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
2.10.6.4	Insulation between conductors on different layers of a printed board		C
	Distance through insulation .....:	(see appended table 2.10.5)	—
	Number of insulations layers (pcs) .....:	Double Sided	C
2.10.7	Component external terminations	(see appended table 2.10.3 and 2.10.4)	N/A
2.10.8	Tests on coated printed boards and coated components		N/A
2.10.8.1	Sample preparation and preliminary inspection		N/A
2.10.8.2	Thermal conditioning		N/A
2.10.8.3	Electric strength	(see appended table 5.2)	—
2.10.8.4	Abrasion resistance test		N/A
2.10.9	Thermal cycling		N/A
2.10.10	Test for Pollution Degree 1 environment and insulation compound		N/A
2.10.11	Tests for semiconductor devices and cemented joints		N/A
2.10.12	Enclosed and sealed parts		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
3	WIRING, CONNECTIONS AND SUPPLY		C
3.1	General		C
3.1.1	Current rating and overcurrent protection	Adequate	C
3.1.2	Protection against mechanical damage		C
3.1.3	Securing of internal wiring	Well Secured	C
3.1.4	Insulation of conductors	(see appended table 5.2)	C
3.1.5	Beads and ceramic insulators		N/A
3.1.6	Screws for electrical contact pressure	Mains Connection	C
3.1.7	Insulating materials in electrical connections		C
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors		C
	10 N pull test		C
3.1.10	Sleeving on wiring		N/A
3.2	Connection to an a.c. mains supply or a d.c. mains supply		C
3.2.1	Means of connection .....:	Terminals	C
3.2.1.1	Connection to an a.c. mains supply		C
3.2.1.2	Connection to a d.c. mains supply		N/A
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment		C
	Number of conductors, diameter (mm) of cable and conduits .....:	3; 14 mm	—
3.2.4	Appliance inlets		N/A
3.2.5	Power supply cords		N/A
3.2.5.1	AC power supply cords		N/A
	Type .....:		—
	Rated current (A), cross-sectional area (mm²), AWG .....:		—
3.2.5.2	DC power supply cords		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
3.2.6	Cord anchorage and strain relief		N/A
	Mass of equipment (kg), pull (N) .....:		—
	Longitudinal displacement (mm) .....:		—
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards		N/A
	D (mm); test mass (g) .....:		—
	Radius of curvature of cord (mm) .....:		—
3.2.9	Supply wiring space		C
3.3	Wiring terminals for connection of external conductors		C
3.3.1	Wiring terminals	Adequate	C
3.3.2	Connection of non-detachable power supply cords		C
3.3.3	Screw terminals		C
3.3.4	Conductor sizes to be connected		C
	Rated current (A), cord/cable type, cross-sectional area (mm²) .....:	16 A; 2,5 mm²	—
3.3.5	Wiring terminal sizes		C
	Rated current (A), type and nominal thread diameter (mm) .....:	16 A; 4,1 mm	—
3.3.6	Wiring terminals design		C
3.3.7	Grouping of wiring terminals		C
3.3.8	Stranded wire		C

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
3.4	Disconnection from the mains supply		C
3.4.1	General requirements		C
3.4.2	Disconnect devices		C
3.4.3	Permanently connected equipment		C
3.4.4	Parts which remain energized		N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Single-phase equipment and d.c. equipment		N/A
3.4.7	Three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment		C
3.4.11	Multiple power sources		N/A
3.5	Interconnection of equipment		C
3.5.1	General requirements		C
3.5.2	Types of interconnection circuits .....:	SELV	C
3.5.3	ELV circuits as interconnection circuits		N/A
3.5.4	Data ports for additional equipment		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
4	PHYSICAL REQUIREMENTS		C
4.1	Stability		C
	Angle of 10˚		N/A
	Test: force (N) .....:		N/A
4.2	Mechanical strength		C
4.2.1	General		C
4.2.2	Steady force test, 10 N		C
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N		C
4.2.5	Impact test		C
	Fall test		C
	Swing test		C
4.2.6	Drop test		N/A
4.2.7	Stress relief test	7 hrs at 70 ˚C	C
4.2.8	Cathode ray tubes	No CRT	N/A
	Picture tube separately certified .....:	(see separate test report or attached certificate)	N/A
4.2.9	High pressure lamps		N/A
4.2.10	Wall or ceiling mounted equipment; force (N) ...:	50 N	C
4.3	Design and construction		C
4.3.1	Edges and corners	Well Rounded	C
4.3.2	Handles and manual controls; force (N) .....:		N/A
4.3.3	Adjustable controls		N/A
4.3.4	Securing of parts		C
4.3.5	Connection of plugs and sockets		C
4.3.6	Direct plug-in equipment		N/A
	Dimensions (mm) of mains plug for direct plug-in .....:		N/A
	Torque and pull test of mains plug for direct plug-in; torque (Nm) .....:		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
4.3.7	Heating elements in earthed equipment	No Heating Elements	N/A
4.3.8	Batteries	(see appended table 4.3.8)	N/A
	Overcharging of a rechargeable battery		N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
	Excessive discharging rate for any battery		N/A
4.3.9	Oil and grease	No Oil or Grease	N/A
4.3.10	Dust, powders, liquids and gases	No Dust, Powders, Liquids or Gases Produced	N/A
4.3.11	Containers for liquids or gases		N/A
4.3.12	Flammable liquids .....:	None	N/A
	Quantity of liquid (l) .....:		N/A
	Flash point (˚C) .....:		N/A
4.3.13	Radiation; type of radiation .....:	No Hazardous Radiation Produced	N/A
4.3.13.1	General		N/A
4.3.13.2	Ionizing radiation		N/A
	Measured radiation (pA/kg) .....:		—
	Measured high-voltage (kV) .....:		—
	Measured focus voltage (kV) .....:		—
	CRT markings .....:		—
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N/A
	Part, property, retention after test, flammability classification .....:		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation ...:		N/A
4.3.13.5	Lasers (including laser diodes) and LEDs		N/A
4.3.13.5.1	Laser (including laser diodes)	(see separate test report of IEC/EN 60825-1 / IEC/EN 60825-2)	N/A
	Laser class .....:		—
4.3.13.5.2	Light emitting diodes (LEDs)		—
4.3.13.6	Other types .....:		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
4.4	Protection against hazardous moving parts		N/A
4.4.1	General	No Moving Parts	N/A
4.4.2	Protection in operator access areas		N/A
4.4.3	Protection in restricted access locations		N/A
4.4.4	Protection in service access areas		N/A
4.4.5.1	General		N/A
	Not considered to cause pain or injury a)…….:		N/A
	Is considered to cause pain, not injury b)……:		N/A
	Considered to cause injury c) ……:		N/A
4.4.5.2	Protection for users		N/A
	Use of symbol or warning ……:		N/A
4.4.5.3	Protection for service persons		N/A
	Use of symbol or warning ……:		N/A
4.5	Thermal requirements		C
4.5.1	General		C
4.5.2	Temperature test		C
	Normal load condition per Annex I .....:	Considered	—
4.5.3	Temperature limits for materials	(see appended table 4.5)	C
4.5.4	Touch temperature limits	(see appended table 4.5)	C
4.5.5	Resistance to abnormal heat		C
4.6	Openings in enclosures		C
4.6.1	Top and side openings	(see appended table 4.6.1 & 4.6.2)	C
4.6.2	Bottoms of fire enclosures	(see appended table 4.6.1 & 4.6.2)	C
4.6.3	Doors or covers in fire enclosures		C
4.6.4	Openings in transportable equipment		N/A
4.6.4.1	Constructional design measures		N/A
	Dimensions (mm) .....:		—

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
4.6.4.2	Evaluation measures for larger openings		N/A
4.6.4.3	Use of metallized parts		N/A
4.6.5	Adhesives for constructional purposes		N/A
	Conditioning temperature (˚C)/time (weeks) .....:		—

4.7	Resistance to fire		C
4.7.1	Reducing the risk of ignition and spread of flame		C
	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	C
	Method 2, application of all of simulated fault condition tests	(see appended table 5.3)	N/A
4.7.2	Conditions for a fire enclosure		C
4.7.2.1	Parts requiring a fire enclosure		C
4.7.2.2	Parts not requiring a fire enclosure		C
4.7.3	Materials		C
4.7.3.1	General	Thermoplastics	C
4.7.3.2	Materials for fire enclosures		C
4.7.3.3	Materials for components and other parts outside fire enclosures		N/A
4.7.3.4	Materials for components and other parts inside fire enclosures		C
4.7.3.5	Materials for air filter assemblies		N/A
4.7.3.6	Materials used in high-voltage components		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		C
5.1	Touch current and protective conductor current		C
5.1.1	General		C
5.1.2	Equipment under test (EUT)		C
5.1.2.1	Single connection to an a.c. mains supply		C
5.1.2.2	Redundant multiple connections to an a.c. mains supply		N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N/A
5.1.3	Test circuit	5A	C
5.1.4	Application of measuring instrument	D.1	C
5.1.5	Test procedure		C
5.1.6	Test measurements	(see appended table 5.1.6)	C
5.1.7	Equipment with touch current exceeding 3,5mA:		N/A
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks		N/A
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system		N/A
	Test voltage (V) .....:		—
	Measured touch current (mA) .....:		—
	Max. allowed touch current (mA) .....:		—
5.1.8.2	Summation of touch currents from telecommunication networks .....:		N/A
5.2	Electric strength		C
5.2.1	General	(see appended table 5.2)	C
5.2.2	Test procedure	(see appended table 5.2)	C

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
5.3	Abnormal operating and fault conditions		C
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	C
5.3.2	Motors	(see appended Annex B)	N/A
5.3.3	Transformers	(see appended Annex C)	C
5.3.4	Functional insulation .....:		C
5.3.5	Electromechanical components		N/A
5.3.6	Audio amplifiers in information technology equipment		N/A
5.3.7	Simulation of faults		C
5.3.8	Unattended equipment		C
5.3.9	Compliance criteria for abnormal operating and fault conditions		C
5.3.9.1	During the test		C
5.3.9.2	After the test		C

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
6	CONNECTION TO TELECOMMUNICATION NETWORKS		N/A
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment		N/A
6.1.1	Protection from hazardous voltages		N/A
6.1.2	Separation of the telecommunication network from earth		N/A
6.1.2.1	Requirements	(see appended table 5.2)	N/A
	Test voltage (V) .....:		—
	Current in the test circuit (mA) .....:		—
6.1.2.2	Exclusions .....:		N/A
6.2	Protection of equipment users from overvoltages on telecommunication networks		N/A
6.2.1	Separation requirements		N/A
6.2.2	Electric strength test procedure		N/A
6.2.2.1	Impulse test	(see appended table 5.2)	N/A
6.2.2.2	Steady-state test	(see appended table 5.2)	N/A
6.2.2.3	Compliance criteria		N/A
6.3	Protection of the telecommunication wiring system from overheating		N/A
	Max. Output current (A) .....:		—
	Current limiting method .....:		—
7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
7.1	General		N/A
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/A
7.3	Protection of equipment users from overvoltages on the cable distribution system		N/A
7.4	Insulation between primary circuits and cable distribution systems		N/A
7.4.1	General		N/A
7.4.2	Voltage surge test	(see appended table 5.2)	N/A
7.4.3	Impulse test	(see appended table 5.2)	N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		C
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		N/A
A.1.1	Samples .....:		—
	Wall thickness (mm) .....:		—
A.1.2	Conditioning of samples; temperature (˚C) .....:		N/A
A.1.3	Mounting of samples .....:		N/A
A.1.4	Test flame		N/A
A.1.5	Test procedure		N/A
A.1.6	Compliance criteria		N/A
	Sample 1 burning time (s) .....:		—
	Sample 2 burning time (s) .....:		—
	Sample 3 burning time (s) .....:		—
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		C
A.2.1	Samples, material .....:	Thermoplastics	—
	Wall thickness (mm) .....:	1,7 mm	—
A.2.2	Conditioning of samples		C
A.2.3	Mounting of samples		N/A
A.2.4	Test flame		N/A
A.2.5	Test procedure		N/A
A.2.6	Compliance criteria		N/A
	Sample 1 burning time (s) .....:		—
	Sample 2 burning time (s) .....:		—
	Sample 3 burning time (s) .....:		—
A.2.7	Alternative test acc. to IEC 60695-2-2, cl. 4, 8		N/A
	Sample 1 burning time (s) .....:		—
	Sample 2 burning time (s) .....:		—
	Sample 3 burning time (s) .....:		—
A.3	Hot flaming oil test (see 4.6.2)		N/A
A.3.1	Mounting of samples		N/A
A.3.2	Test procedure		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
A.3.3	Compliance criterion		N/A
B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N/A
B.1	General requirements		N/A
	Position .....:	-	—
	Manufacturer .....:	-	—
	Type .....:	-	—
	Rated values .....:	-	—
B.2	Test conditions		N/A
B.3	Maximum temperatures	(see appended table 5.3)	N/A
B.4	Running overload test	(see appended table 5.3)	N/A
B.5	Locked-rotor overload test		N/A
	Test duration (days) .....:		—
	Electric strength test: test voltage (V) .....:		—
B.6	Running overload test for d.c. motors in secondary circuits		N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		N/A
B.7.1	Test procedure	(see appended table 5.3)	N/A
B.7.2	Alternative test procedure; test time (h) .....:		N/A
B.7.3	Electric strength test	(see appended table 5.2)	N/A
B.8	Test for motors with capacitors	(see appended table 5.3)	N/A
B.9	Test for three-phase motors	(see appended table 5.3)	N/A
B.10	Test for series motors		N/A
	Operating voltage (V) .....:		—
C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		C
	Position .....:	Primary and Secondary	—
	Manufacturer .....:	Shenzhen Shi Lici	—
	Type .....:	EE16	—
	Rated values .....:	-	—
	Method of protection .....:	Isolating	—
C.1	Overload test	(see appended table 5.3)	C

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
C.2	Insulation	(see appended table 5.2)	C
	Protection from displacement of windings .....:		C
D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS		C
D.1	Measuring instruments		C
D.2	Alternative measuring instrument		N/A
E	ANNEX E, TEMPERATURE RISE OF A WINDING		N/A
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10)		C
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N/A
G.1	Summary of the procedure for determining minimum clearances		N/A
G.2	Determination of mains transient voltage (V) ....:		N/A
G.2.1	AC mains supply		N/A
G.2.2	DC mains supply		N/A
G.3	Determination of telecommunication network transient voltage (V) .....:		N/A
G.4	Determination of required withstand voltage (V):		N/A
G.5	Measurement of transient levels (V) .....:		N/A
G.6	Determination of minimum clearances .....:		N/A
H	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		N/A
	Metal used .....:		—

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)		N/A
K.1	Making and breaking capacity		N/A
K.2	Thermostat reliability; operating voltage (V) .....:		N/A
K.3	Thermostat endurance test; operating voltage (V) .....:		N/A
K.4	Temperature limiter endurance; operating voltage (V) .....:		N/A
K.5	Thermal cut-out reliability		N/A
K.6	Stability of operation	(see appended table 5.3)	N/A
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		C
L.1	Typewriters		N/A
L.2	Adding machines and cash registers		N/A
L.3	Erasers		N/A
L.4	Pencil sharpeners		N/A
L.5	Duplicators and copy machines		N/A
L.6	Motor-operated files		N/A
L.7	Other business equipment		C
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1		N/A
M.1	Introduction		N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringing signal		N/A
M.3.1.1	Frequency (Hz)		—
M.3.1.2	Voltage (V) .....:		—
M.3.1.3	Cadence; time (s), voltage (V) .....:		—
M.3.1.4	Single fault current (mA) .....:		—
M.3.2	Tripping device and monitoring voltage .....:		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V) .....:		N/A
N	ANNEX N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)		N/A
N.1	ITU-T impulse test generators		N/A
N.2	IEC 60065 impulse test generator		N/A
P	ANNEX P, NORMATIVE REFERENCES		C
Q	ANNEX Q, VOLTAGE DEPENDANT RESISTORS (VDR's) (see 1.5.9.1)		N/A
	a) Preferred climatic categories .....:		N/A
	b) Maximum continuous voltage .....:		N/A
	c) Pulse current .....:		N/A
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N/A
S.1	Test equipment		N/A
S.2	Test procedure		N/A
S.3	Examples of waveforms during impulse testing		N/A
T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N/A
		See separate test report	—

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		N/A
		See separate test report	—
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		C
V.1	Introduction		C
V.2	TN power distribution systems		C
W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N/A
W.1	Touch current from electronic circuits		N/A
W.1.1	Floating circuits		N/A
W.1.2	Earthed circuits		N/A
W.2	Interconnection of several equipments		N/A
W.2.1	Isolation		N/A
W.2.2	Common return, isolated from earth		N/A
W.2.3	Common return, connected to protective earth		N/A
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		C
X.1	Determination of maximum input current		C
X.2	Overload test procedure		C
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		N/A
Y.1	Test apparatus .....:		N/A
Y.2	Mounting of test samples .....:		N/A
Y.3	Carbon-arc light-exposure apparatus .....:		N/A
Y.4	Xenon-arc light exposure apparatus .....:		N/A
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)		C
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N/A

IEC 60950-1 / SANS 60950-1			
Clause	**Requirement - Test**	**Result - Remark**	**Verdict**
BB	ANNEX BB, CHANGES IN THE SECOND EDITION		—
CC	ANNEX CC, EVALUATION OF INTEGRATED CIRCUIT (IC) CURRENT LIMITERS		N/A
CC.1	General		N/A
CC.2	Test program 1……..…:		N/A
CC.3	Test program 2……..:		N/A
DD	ANNEX DD, REQUIREMENTS FOR THE MOUNTING MEANS OF RACK-MOUNTED EQUIPMENT		N/A
DD.1	General		N/A
DD.2	Mechanical strength test, variable N……:		N/A
DD.3	Mechanical strength test, 250 N, including end stops……:		N/A
DD.4	Compliance……:		N/A
EE	ANNEX EE, HOUSEHOLD AND HOME/OFFICE DOCUMENT/MEDIA SHREDDERS		N/A
EE.1	General		N/A
EE.2	Markings and instructions		N/A
	Use of markings or symbols……..:		N/A
	Information of user instructions, maintenance and/or servicing instructions……..…:		N/A
EE.3	Inadvertent reactivation test……..…:		N/A
EE.4	Disconnection of power to hazardous moving parts:		N/A
	Use of markings or symbols……..…:		N/A
EE.5	Protection against hazardous moving parts		N/A
	Test with test finger (Figure 2A).....…...:		N/A
	Test with wedge probe (Figure EE1 and EE2)…:		N/A

1.5.1	TABLE: list of critical components				C
object / part No.	Manufacturer / trademark	type / model	technical data	standard	mark (s) of conformity [1])
Capacitor CY 1	JNC	JN	102 400 ~ 250 ~ X1 Y1	IEC 60384-14	VDE
Transformer	Shenzhen Shi Lici	EE16	-	-	Tested in Sample
[1]) an asterisk indicates a mark which assures the agreed level of surveillance					

1.6.2	TABLE: electrical data (in normal conditions)					C
fuse #	Irated (A)	U (V)	P (W)	I (mA)	Ifuse (mA)	conditions / status
-	0,1	99	7,0	122	122	Loaded as Rated
1	0,1	110	6,9	113	113	Loaded as Rated
1	0,1	250	6,5	53	53	Loaded as Rated
-	0,1	265	6,5	51	51	Loaded as Rated

2.1.1.5 c1)	TABLE: max. V, A, VA test				N/A
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)	
All Enclosed					
Supplementary information:					

2.1.1.5 c2)	TABLE: stored energy		N/A
Capacitance C (µF)	Voltage U (V)	Energy E (J)	
By Design			
Supplementary information:			

2.2	TABLE: evaluation of voltage limiting components in SELV circuits		N/A
Component (measured between)	max. voltage (V) (normal operation)		Voltage Limiting Components
	V Peak	V dc	
Fault test performed on voltage limiting components	Voltage measured (V) in SELV circuits (V peak or V d.c.)		
Supplementary information:			

2.4.2	TABLE: limited current circuit measurement					N/A
Location	Voltage (V)	Current (mA)	Freq. (kHz)	Limit (mA)	Comments	
Notes:						

2.5	TABLE: limited power sources				N/A
Component (measured between)	I sc		VA		
	Measured	Limit	Measured	Limit	
Supplementary information:					

2.6.3.4	TABLE: ground continue test	N/A
Location	Resistance measured (mΩ)	Comments

2.10.2	Table: working voltage measurement		C
Location	Peak voltage (V)	RMS voltage (V)	Comments
Transformer	420	250	Pass
Supplementary information:			

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements					C
clearance cl and creepage distance dcr at / of:	Up (V)	Ur.m.s (V)	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Transformer	420	250	4,0	> 10	5,0	> 10
Capacitor CY 1	420	250	4,0	9,0	5,0	9,0

2.10.5	TABLE: distance through insulation measurements			C
distance through insulation di at/of:	Up (V)	test voltage (V)	required di (mm)	di (mm)
Transformer	420	3 000	-	-

4.3.8	TABLE: Batteries								N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available					Yes/ No				N/A
Is it possible to install the battery in a reverse polarity position?					Yes/ No				N/A
	Non-Rechargeable batteries			Rechargeable batteries					
	Discharging		Unintentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf Specs		Meas. current	Manuf Specs	Meas. current	Manuf Specs	Meas. current	Manuf Specs

Max. current during normal condition									
Max. current during fault condition									

Test results:		Verdict
- Chemical leaks		N/A
- Explosion of the battery		N/A
- Emission of flame or expulsion of molten metal		N/A
- Electric strength tests of equipment after completion of tests		N/A
Supplementary information:		
Battery category ..... :	-	
Manufacturer ..... :	-	
Type / model ..... :	-	
Voltage ..... :	-	
Capacity ..... :	-	
Tested and Certified by (incl. Ref. No.) ..... :	-	
Circuit protection diagram:		

MARKINGS AND INSTRUCTIONS (1.7.12, 1.7.15)	
Location of replaceable battery	
	Language(s):
Close to the battery	
In the servicing instructions	
In the operating instructions	

4.5	TABLE: maximum temperatures						C
	test voltage (V):	99	265				-
	t_{amb1} (˚C):	22	22				-
	t_{amb2} (˚C):	22	22				-
maximum temperature T of part/att:		T (˚C)					allowed T_{max} (˚C)
Capacitor EC 1		34	21				80(105 - 25)
Capacitor EC 2		32	21				80(105 - 25)
Transformer		38	31				85(120 - 35)
Transformer Wiring		33	23				60
Capacitor EC 4		43	31				80(105 - 25)
Insulation		42	32				85
IC 1		26	22				No Limits
Capacitor CY 1		24	19				60
Enclosure		16	13				70(95 - 25)
Front Panel		17	14				70(95 - 25)

temperature T of winding	R1 (Ω)	R2 (Ω)	T (˚C)	allowed T_{max} (˚C)	insulation class

4.5.5	TABLE: ball pressure test of thermoplastic parts		C
	allowed impression diameter (mm) ..... :	≤2 mm	-

Part	test temperature (˚C)	impression diameter (mm)
Enclosure	75	0,3

4.6.1, 4.6.2	Table: enclosure openings	C
Location	Size (mm)	Comments
None		Pass

Notes:

4.7	TABLE: resistance to fire			C
part	manufacturer of material	type of material	thickness (mm)	flammability class
Enclosure	Thermoplastics	-	1,5	

5.1	TABLE: touch current measurement		C
Measured between:	Measured (mA)	Limit (mA)	Comments/conditions
Live and Metal Foil	0,004	0,25	Pass
Neutral and Metal Foil	0,002	0,25	Pass
supplementary information:			

5.2	TABLE: electric strength tests, impulse tests and voltage surge tests	C
test voltage applied between:	test voltage (V) a.c. / d.c.	breakdown Yes / No
Live Parts and Enclosure	3 000	No
supplementary information:		

Appendix 1

Report number :WCT 15/1346	Page 1 of 5
Trading name :OMY	
Model number :OMY-16-SA-22	
Figure 1 : Front view	
Figure 2 : Rear view	
Figure 3 : Marking 1	
Figure 4 :Marking 2	
Figure 5 : Marking 3	
Figure 6 : Internal layout 1	
Figure 7 : Internal layout 2	
Figure 8 : Internal layout 3	

Figure 1

Figure 2

Figure 3

Figure 4

Figure 5

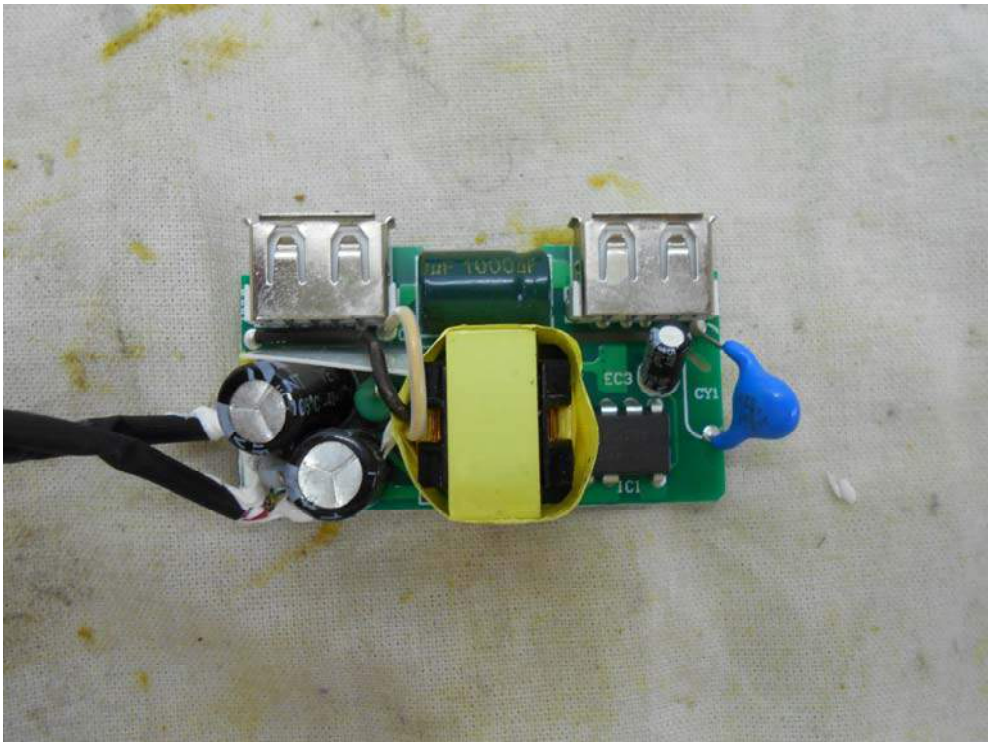

Figure 6

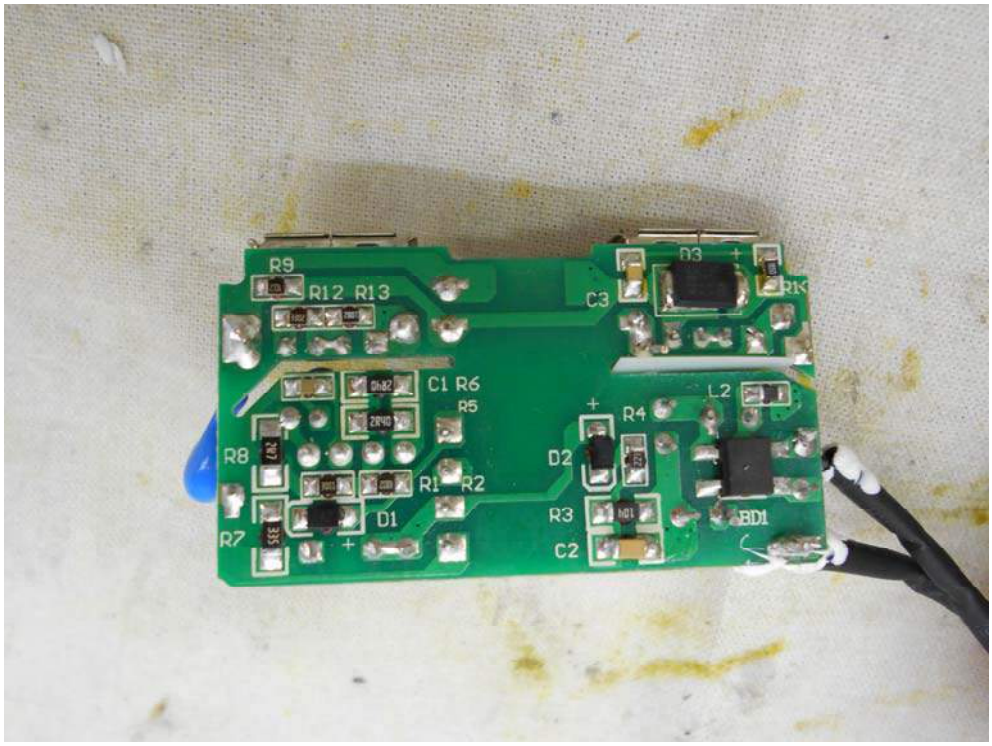

Figure 7

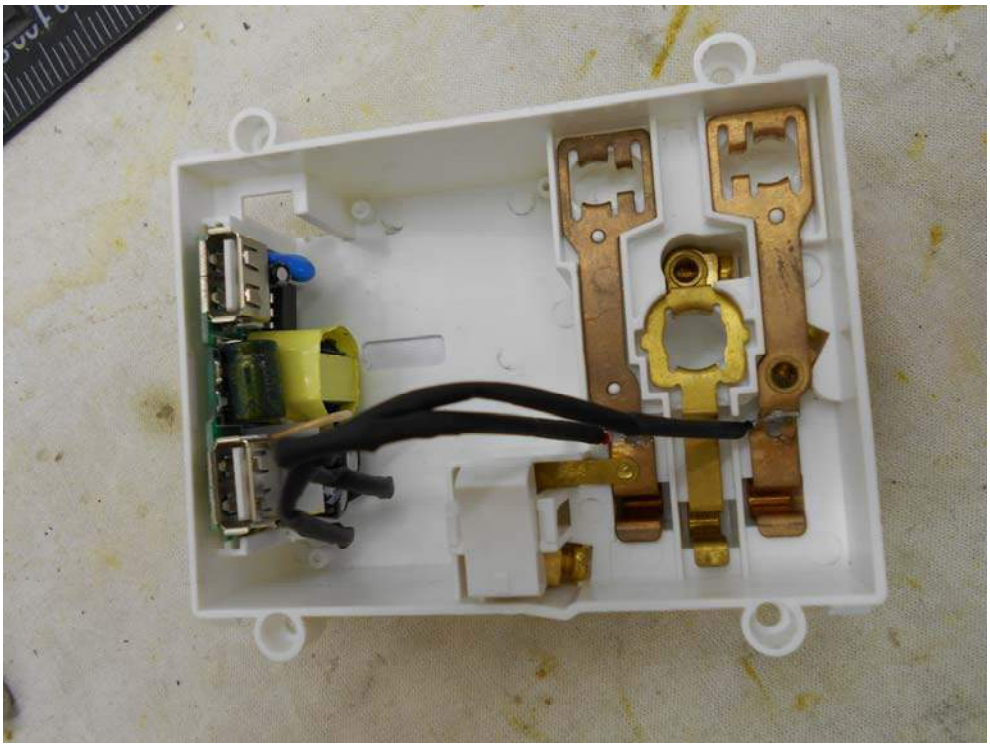

Figure 8