

Product Safety Consultant Inc.

6F, No. 6, Lane609, Sec. 5 Chung-Hsin Rd., San Chung Dist., New Taipei City, Taiwan Tel: (02)2999-6855 Fax: (02)2999-6849

VERIFICATION OF COMPLIANCE

The following mentioned Products have been tested in typical configuration by PSC and were found to comply with the essential requirements of "Council Directive on the Approximation of the Laws of the Member States to Low Voltage Directive (2006/95/EC)"

Equipment:

Type of Product : Network Camera

Model Number : PD8136

Produced by:

Applicant's Name : VIVOTEK INC.

6F, No.192, Lien-Cheng Rd., Chung-Ho Dist.,

Applicant's Address : New Taipei City, 235, Taiwan, R.O.C.

Applied Standards:

EN60950-1:2006/A11:2009/A1:2010/A12:2011:

Safety of Information Technology Equipment including electrical business equipment.

Manufacture or his authorized representative within EC shall affix the CE Marking to the products if he ensures the product complies with the relevant harmonized standards and draws up a declaration of conformity. The technical report issued by PSC will support you Affix the CE Marking.

Date : October 4, 2012

Report No: 12CE09L055 Venson Huang/Engineering Manager

Product Safety Consultant Inc.

Page : 1 of 43 Issue Date:2012-10-04

TEST REPORT

Standard applied: EN60950-1:2006/A11:2009/A1:2010/A12:2011
Safety of Information Technology Equipment including
electrical business equipment

Applicant VIVOTEK INC.

Address 6F, No.192, Lien-Cheng Rd., Chung-Ho Dist., New Taipei City,

235, Taiwan, R.O.C.

FactoryVIVOTEK INC.

Address 5F, No.168, Lien-Cheng Rd., Chung-Ho Dist., New Taipei City,

235, Taiwan, R.O.C.

Equipment..... Network Camera

Equipment mobility..... Movable or stationary equipment (for ceiling mount)

Trademark...... VIVOTEK

Model No. PD8136

Rating......Input:48Vdc / 0.35A (For POE) (Optional)

Output: --

Class of equipment Class III

Complied by:

ony Chen

Approved by:

Venson Huang

Date..... Octob

October 4, 2012

Date.....

October 4, 2012

Test Site....:

6F, No.6, Lane 609, Sec.5 Chung-Hsin Rd., San Chung Dist.,

New Taipei City, Taiwan, R.O.C.

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Page : 2 of 43 Issue Date:2012-10-04

Operating condition: continuous

Mains supply tolerance (%) 48Vdc, Power Supply from POE Adaptor

Tested for IT power systems: N/A
IT testing, phase-phase voltage (V): N/A

Mass of equipment (kg)...... Approx. 0.175kg max..

Protection against ingress of water .: Ordinary

Number of pages (Report) 43

Number of pages (Attachments).....: See Attachments

Attachments:

Appendix I - Label

Appendix II – EuT Photographs
Appendix III – Instrument list

General remarks:

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

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test services for PSC are capable of performing services in compliance with the requirements of ISO 17025, EN60950-1:2006+A11:2009+A1:2010+A12:2011 and IEC 60950-1:2005 (2nd Edition); Am 1:2009.

General Comment:

Brief description of the test sample:

- 1. The subject equipment is a movable or stationary equipment. Consisting of a plastic housing SELV circuits and to be used with an external POE power supply.
- 2. The equipment is rated by the manufacturer for use in a maximum ambient temperature of 45 Deg C.

Product Safety Consultant Inc.

Page : 3 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
		·	
1	GENERAL		Р
1.5	Components		Р
1.5.1	General	See below.	Р
	Comply with IEC 60950 or relevant component standard	(see appended table 1.5.1)	Р

1.5.1	General	See below.	Р
	Comply with IEC 60950 or relevant component standard	(see appended table 1.5.1)	Р
1.5.2	Evaluation and testing of components	Components certified to IEC standards and/or their harmonized standards, are used within their ratings and are checked for correct application.	Р
1.5.3	Thermal controls		N/A
1.5.4	Transformers		N/A
1.5.5	Interconnecting cables	Except for the insulation material there are no further requirements to the interconnection cable.	Р
1.5.6	Capacitors bridging insulation	Class III equipment	N/A
1.5.7	Resistors bridging insulation	No component bridged reinforced or double insulation.	N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N/A
1.5.8	Components in equipment for IT power systems	Not connected to IT power systems	N/A
1.5.9	Surge suppressors	No used on primary circuit.	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

Product Safety Consultant Inc.

Page : 4 of 43 Issue Date:2012-10-04

	CI.	Requirement - Test	Result - Remark	Verdict	
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1.6	Power interface	Power interface	
1.6.1	AC power distribution systems	Class III equipment	N/A
1.6.2	Input current	(see appended table 1.6.2)	Р
1.6.3	Voltage limit of hand-held equipment		N/A
1.6.4	Neutral conductor		N/A

1.7	Marking and instructions		Р
1.7.1	Power rating and identification markings		Р
1.7.1.1	Power rating marking	See below.	Р
	Multiple mains supply connections		Р
	Rated voltage(s) or voltage range(s) (V)	See page 1	Р
	Symbol for nature of supply, for d.c. only	See page 1	Р
	Rated frequency or rated frequency range (Hz)		N/A
	Rated current (mA or A)	See page 1	Р
1.7.1.2	Identification markings	See below.	Р
	Manufacturer's name or trade-mark or identification mark	See page 1	Р
	Model identification or type reference	See page 1	Р
	Symbol for Class II equipment only		N/A
	Other markings and symbols	CE	Р
1.7.2	Safety instructions and marking	See below:	Р
1.7.2.1	General	Instructions are available.	Р
1.7.2.2	Disconnect devices		N/A
1.7.2.3	Overcurrent protective device		N/A
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		N/A

Product Safety Consultant Inc.

Page : 5 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
1.7.4	Supply voltage adjustment		N/A
	Methods and means of adjustment; reference to installation instructions		N/A
1.7.5	Power outlets on the equipment		N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)		N/A
1.7.7	Wiring terminals		N/A
1.7.7.1	Protective earthing and bonding terminals		N/A
1.7.7.2	Terminals for a.c. mains supply conductors		N/A
1.7.7.3	Terminals for d.c. mains supply conductors		N/A
1.7.8	Controls and indicators	See below.	Р
1.7.8.1	Identification, location and marking	The function of indicators and controls is clearly identified.	Р
1.7.8.2	Colours	Colors are used and safety is not involved.	Р
1.7.8.3	Symbols according to IEC 60417	See General product information - Markings and Instructions	Р
1.7.8.4	Markings using figures		N/A
1.7.9	Isolation of multiple power sources		N/A
1.7.10	Thermostats and other regulating devices		N/A
1.7.11	Durability	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. and then rubbed with cloth soaked with HEXANE for 15 sec. After test, the marking is	Р
		readable.	
1.7.12	Removable parts	The required marking is not placed on removable parts.	Р
1.7.13	Replaceable batteries		N/A
	Language(s)		_
1.7.14	Equipment for restricted access locations		N/A

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Page : 6 of 43 Issue Date:2012-10-04

CI. Requirement - Test Result - Remark V	Verdict
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2	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy hazards	-	Р
2.1.1	Protection in operator access areas	See below.	Р
2.1.1.1	Access to energized parts	This equipment is intended to be supplied from SELV with energy below 240VA.	Р
	Test by inspection	No energy part can be touched by inspection.	Р
	Test with test finger (Figure 2A)	No energy part can be touched by finger.	Р
	Test with test pin (Figure 2B)	No energy part can be touched by pin.	Р
	Test with test probe (Figure 2C)		N/A
2.1.1.2	Battery compartments		N/A
2.1.1.3	Access to ELV wiring		N/A
	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)		_
2.1.1.4	Access to hazardous voltage circuit wiring		N/A
2.1.1.5	Energy hazards	No parts at hazardous energy level in operator access area.	Р
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment		N/A
	Measured voltage (V); time-constant (s)		_
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		N/A
2.1.3	Protection in restricted access locations		N/A

Product Safety Consultant Inc.

Page : 7 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
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2.2	SELV circuits		Р
2.2.1	General requirements	See below.	Р
2.2.2	Voltages under normal conditions (V)	Equipment is supplied from SELV circuit and no generation of hazardous voltage is possible under normal operating conditions for SELV circuit.	Р
2.2.3	Voltages under fault conditions (V)	Single fault did not cause excessive voltage in accessible SELV circuits. Limits of 71V peak and 120V DC were not exceed and SELV limits not for longer than 0.2 seconds, see abnormal results. (see also appended table 2.2.2)	Р
2.2.4	Connection of SELV circuits to other circuits	The EUT only connection to SELV circuit.	Р

2.3	TNV circuits	N/A
2.3.1	Limits	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

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Requirement - Test

CI.

Page : 8 of 43 Issue Date:2012-10-04

Verdict

Result - Remark

2.4	Limited current circuits		N/A
2.4.1	General requirements	No limited current circuit provided.	N/A
2.4.2	Limit values		N/A
	Frequency (Hz)		_
	Measured current (mA)		_
	Measured voltage (V)		_
	Measured circuit capacitance (nF or μF)		
2.4.3	Connection of limited current circuits to other circuits		N/A
2.5	Limited power sources The output of the approved SPS adaptor complied v	with LPS.	N/A
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output under normal operating and single fault condition		N/A
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA)		_
	Current rating of overcurrent protective device (A)		_
	Use of integrated circuit (IC) current limiters		_
2.6	Provisions for earthing and bonding		N/A
2.6.1	Protective earthing	Class III equipment.	N/A
2.6.2	Functional earthing		N/A
2.6.3	Protective earthing and protective bonding conductors		N/A
2.6.3.1	General		N/A
2.6.3.2	Size of protective earthing conductors		N/A
	Rated current (A), cross-sectional area (mm²), AWG		_

Product Safety Consultant Inc.

Page : 9 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm²), AWG		_
	Protective current rating (A), cross-sectional area (mm²), AWG		_
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω) , voltage drop (V), test current (A), duration (min)		N/A
2.6.3.5	Colour of insulation		N/A
2.6.4	Terminals		N/A
2.6.4.1	General		N/A
2.6.4.2	Protective earthing and bonding terminals		N/A
	Rated current (A), type, 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
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A

2.7	Overcurrent and earth fault protection in primary circuits		N/A
2.7.1	Basic requirements Class III equipment.		N/A
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not simulated in 5.3.7		N/A

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2.8.7.4

2.8.8

Electric strength test

Mechanical actuators

Page : 10 of 43 Issue Date:2012-10-04

N/A

N/A

CI.	Requirement - Test	Result - Remark	Verdict
2.7.3	Short-circuit backup protection		N/A
2.7.4	Number and location of protective devices		N/A
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel		N/A
		1	<u> </u>
2.8	Safety interlocks		N/A
2.8.1	General principles		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		N/A
2.8.7.1	Contact gaps (mm)		N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A

2.9	Electrical insulation		Р
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic materials are not used.	Р
2.9.2	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C)		_
2.9.3	Grade of insulation	Only functional insulation type.	Р
2.9.4	Separation from hazardous voltages		N/A
	Method(s) used		_

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Page : 11 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
2.10	Clearances, creepage distances and distances thro	ough insulation	Р
2.10.1	General	See below.	Р
2.10.1.1	Frequency		Р
2.10.1.2	Pollution degrees	See Test item particulars	Р
2.10.1.3	Reduced values for functional insulation	See 5.3.4.	Р
2.10.1.4	Intervening unconnected conductive parts		N/A
2.10.1.5	Insulation with varying dimensions		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		N/A
2.10.2.1	General		N/A
2.10.2.2	RMS working voltage		N/A
2.10.2.3	Peak working voltage		N/A
2.10.3	Clearances		N/A
2.10.3.1	General		N/A
2.10.3.2	Mains transient voltages		N/A
	a) AC mains supply		N/A
	b) Earthed d.c. mains supplies		N/A
	c) Unearthed d.c. mains supplies		N/A
	d) Battery operation		N/A
2.10.3.3	Clearances in primary circuits		N/A
2.10.3.4	Clearances in secondary circuits		N/A
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply		N/A
2.10.3.7	Transients from 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

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Page : 12 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
	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		N/A
2.10.4.1	General		N/A
2.10.4.2	Material group and comparative tracking index		N/A
	CTI tests		_
2.10.4.3	Minimum creepage distances		N/A
2.10.5	Solid insulation		N/A
2.10.5.1	General		N/A
2.10.5.2	Distances through insulation		N/A
2.10.5.3	Insulating compound as solid insulation		N/A
2.10.5.4	Semiconductor devices		N/A
2.10.5.5.	Cemented joints		N/A
2.10.5.6	Thin sheet material – General		N/A
2.10.5.7	Separable thin sheet material		N/A
	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		N/A
	Electric strength test		_
2.10.5.10	Thin sheet material – alternative test procedure		N/A
	Electric strength test		_
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

Product Safety Consultant Inc.

Page : 13 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
	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 test		_
	Routine test		N/A
2.10.5.14	Additional insulation in wound components		N/A
	Working voltage		N/A
	- Basic insulation not under stress		N/A
	- Supplementary, reinforced insulation		N/A
2.10.6	Construction of printed boards		N/A
2.10.6.1	Uncoated printed boards		N/A
2.10.6.2	Coated printed boards		N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A
2.10.6.4	Insulation between conductors on different layers of a printed board		N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs)		N/A
2.10.7	Component external terminations		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 test		N/A
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 insulating compound		N/A
2.10.11	Tests for semiconductor devices and cemented joints		N/A
2.10.12	Enclosed and sealed parts		N/A

Product Safety Consultant Inc.

Page : 14 of 43 Issue Date:2012-10-04

	CI.	Requirement - Test	Result - Remark	Verdict
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3	WIRING, CONNECTIONS AND SUPPLY		Р
3.1	General		Р
3.1.1	Current rating and overcurrent protection	The cross-sectional area of the wires is adequate and complied with the tests of 4.5.2 and 4.5.3.	Р
3.1.2	Protection against mechanical damage	The wireways (including holes) are smooth and free from sharp edges.	Р
3.1.3	Securing of internal wiring	No excessive strain on wire and on terminal connections, loosing of terminal connections and damage of conductor insulation.	Р
3.1.4	Insulation of conductors		N/A
3.1.5	Beads and ceramic insulators		N/A
3.1.6	Screws for electrical contact pressure		N/A
3.1.7	Insulating materials in electrical connections	Sufficient resilience is provided.	Р
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors	All conductors are reliable secured.	Р
	10 N pull test	The clearances and creepages are not reduced below required in 2.10.	Р
3.1.10	Sleeving on wiring		N/A

3.2	Connection to a mains supply		N/A
3.2.1	Means of connection	Class III equipment. No direct connection to mains.	N/A
3.2.1.1	Connection to an a.c. mains supply		N/A
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		N/A
	Number of conductors, diameter of cable and conduits (mm)		_

Product Safety Consultant Inc.

Page : 15 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
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
	Туре		_
	Rated current (A), cross-sectional area (mm²), AWG		_
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages 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
	Diameter or minor dimension D (mm); test mass (g)		_
	Radius of curvature of cord (mm)		_
3.2.9	Supply wiring space		N/A

3.3	Wiring terminals for connection of external conductor	ors	N/A
3.3.1	Wiring terminals	Class III equipment. No direct connection to mains.	N/A
3.3.2	Connection of non-detachable power supply cords		N/A
3.3.3	Screw terminals		N/A
3.3.4	Conductor sizes to be connected		N/A
	Rated current (A), cord/cable type, cross-sectional area (mm²)		_
3.3.5	Wiring terminal sizes		N/A
	Rated current (A), type, nominal thread diameter (mm)		_
3.3.6	Wiring terminal design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A

Product Safety Consultant Inc.

Page : 16 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
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3.4	Disconnection from the mains supply		N/A
3.4.1	General requirement	Class III equipment. No direct connection to mains.	N/A
3.4.2	Disconnect devices		N/A
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized		N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Number of poles - single-phase and d.c. equipment		N/A
3.4.7	Number of poles - 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		N/A
3.4.11	Multiple power sources		N/A

3.5	Interconnection of equipment		Р
3.5.1	General requirements	See below.	Р
3.5.2	Types of interconnection circuits	SELV circuit.	Р
3.5.3	ELV circuits as interconnection circuits		N/A
3.5.4	Data ports for additional equipment	RJ-45 connector is input port.	N/A

Product Safety Consultant Inc.

Page : 17 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
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4	PHYSICAL REQUIREMENTS		Р
4.1	Stability		N/A
	Angle of 10°	EUT is mounting type.	N/A
	Test force (N)		N/A

4.2	Mechanical strength		Р
4.2.1	General	No safety relevant damages.	Р
	Rack-mounted equipment.		N/A
4.2.2	Steady force test, 10 N	10N applied to components and parts.	Р
4.2.3	Steady force test, 30 N		N
4.2.4	Steady force test, 250 N		N/A
4.2.5	Impact test		N/A
	Fall test		N/A
	Swing test		N/A
4.2.6	Drop test; height (mm)		N/A
4.2.7	Stress relief test		N/A
4.2.8	Cathode ray tubes		N/A
	Picture tube separately certified		N/A
4.2.9	High pressure lamps		N/A
4.2.10	Wall or ceiling mounted equipment; force (N)		N/A
4.2.11	Rotating solid media		N/A
	Test to cover on the door		N/A

Product Safety Consultant Inc.

Page : 18 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
4.3	Design and construction		Р
4.3.1	Edges and corners	Edges and corners of the enclosure are rounded.	Р
4.3.2	Handles and manual controls; force (N)	No knobs, grips, handles, lever etc.	N/A
4.3.3	Adjustable controls	No adjustable controls.	N/A
4.3.4	Securing of parts	Electrical and mechanical connections can be expected to with standard usual mechanical stress.	Р
4.3.5	Connection by plugs and sockets	In operator and service area, mismatch of connectors were prevented by incompatible form or location.	Р
4.3.6	Direct plug-in equipment	The equipment is not direct plug-in type.	N/A
	Torque		_
	Compliance with the relevant mains plug standard		N/A
4.3.7	Heating elements in earthed equipment		N/A
4.3.8	Batteries		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	The insulation has adequate properties to resist deterioration.	N/A
4.3.10	Dust, powders, liquids and gases		N/A
4.3.11	Containers for liquids or gases		N/A
4.3.12	Flammable liquids		N/A
	Quantity of liquid (I)		N/A
	Flash point (°C)		N/A
4.3.13	Radiation	See below.	Р
4.3.13.1	General	See below.	Р

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4.4.3

4.4.4

4.4.5

4.4.5.1

General

Page : 19 of 43 Issue Date:2012-10-04

N/A

Ρ

N/A

N/A

Unintentional contact with the

moving parts of the DC motor is unlikely during servicing

operation.

CI.	Requirement - Test	Result - Remark	Verdict
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	See below:	Р
4.3.13.5.1	Lasers (including laser laser diodes)		N/A
	Laser class		
4.3.13.5.2	Light emitting diodes (LEDs)	The following parts are condisdered complied without tests: Indicating lights.	Р
4.3.13.6	Other types		N/A
4.4	Protection against hazardous moving parts		Р
4.4.1	General	The rotating part of the build-in DC motor is protected by the enclosure, which considered no accessible to the user.	Р
4.4.2	Protection in operator access areas	For the DC motor located adjacent to Lens compartment was not accessible when tested with test finger.	Р
	Household and home/office document/media shredders	(see Annex EE)	N/A

Ref. No.:12CE09L055 FM21001C

Protection in restricted access locations

Protection in service access areas

Protection against moving fan blades

Product Safety Consultant Inc.

Page : 20 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
		•	·
	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		Р
4.5.1	General	No exceeding temperature.	Р
4.5.2	Temperature tests	(See appended table 4.5)	Р
	Normal load condition per Annex L	(See Annex L)	_
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat		N/A

4.6	Openings in enclosures		Р
4.6.1	Top and side openings	See below.	Р
	Dimensions (mm)	(see appended table)	_
4.6.2	Bottoms of fire enclosures	See below.	Р
	Construction of the bottom, dimensions (mm)	(see appended table)	_
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment		N/A
4.6.4.1	Constructional design measures		N/A
	Dimensions (mm)		_
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)		_

Product Safety Consultant Inc.

Page : 21 of 43 Issue Date:2012-10-04

4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame	See below.	Р
	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	Р
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure	See below.	Р
4.7.2.1	Parts requiring a fire enclosure	See 4.7.2.2.	N/A
4.7.2.2	Parts not requiring a fire enclosure	This equipment supplied by power adaptor which complied with LPS and all components mounted on PCB rated V-1 or better, therefore no fire enclosure required.	Р
4.7.3	Materials		Р
4.7.3.1	General	PCB rated accordingly. See appended table 1.5.1 for details.	Р
4.7.3.2	Materials for fire enclosures	No fire enclosure required.	N/A
4.7.3.3	Materials for components and other parts outside fire enclosures		Р
4.7.3.4	Materials for components and other parts inside fire enclosures	Internal components except small parts are V-2, HF-2 or better.	Р
4.7.3.5	Materials for air filter assemblies	No air filter provided.	N/A
4.7.3.6	Materials used in high-voltage components	No high voltage components provided.	N/A

Product Safety Consultant Inc.

Page : 22 of 43 Issue Date:2012-10-04

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		Р
5.1	Touch current and protective conductor current		N/A
5.1.1	General Class III equipment.		N/A
5.1.2	Configuration of equipment under test (EUT)		N/A
5.1.2.1	Single connection to an a.c. mains supply		N/A
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		N/A
5.1.4	Application of measuring instrument		N/A
5.1.5	Test procedure		N/A
5.1.6	Test measurements		N/A
	Supply voltage (V)		_
	Measured touch current (mA)		_
	Max. allowed touch current (mA)		_
	Measured protective conductor current (mA)		_
	Max. allowed protective conductor current (mA)		_
5.1.7	Equipment with touch current exceeding 3,5 mA		N/A
5.1.7.1	General		N/A
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.8	Touch currents to 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 or to a cable distribution system		N/A
	Supply voltage (V)		_
	Measured touch current (mA)		_
	Max. allowed touch current (mA)		

Product Safety Consultant Inc.

5.3.9.1

5.3.9.2

During the tests

After the tests

Page : 23 of 43 Issue Date:2012-10-04

N/A

N/A

CI.	Requirement - Test	Result - Remark	Verdict
5.1.8.2	Summation of touch currents from telecommunication networks		N/A
	a) EUT with earthed telecommunication ports		N/A
	b) EUT whose telecommunication ports have no reference to protective earth		N/A
5.2	Electric strength		N/A
5.2.1	General	Class III equipment	N/A
5.2.2	Test procedure		N/A
	•		
5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal operation	See below	Р
5.3.2	Motors	(see appended Annex B)	N/A
5.3.3	Transformers		N/A
5.3.4	Functional insulation	Method c) used, but due to	Р
		Components are mounted on PCB rated V-1 or better.	
		No basic, supplementary or reinforced insulation inside.	
		no test necessary.	
5.3.5	Electromechanical components		N/A
5.3.6	Audio amplifiers in ITE		N/A
5.3.7	Simulation of faults	See appended table 5.3.	Р
5.3.8	Unattended equipment		N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	See appended table 5.3.	Р
	.	1	

Product Safety Consultant Inc.

Page : 24 of 43 Issue Date:2012-10-04

CI. Requirement - Test	Result - Remark	Verdict
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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	.1 Requirements		N/A
	Supply 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		N/A
6.2.2.2	Steady-state test		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		_

Product Safety Consultant Inc.

Page : 25 of 43 Issue Date:2012-10-04

Cl. Requirement - Test	Result - Remark	Verdict
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7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		
7.1	General	N/A	ı
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	N/A	
7.4.3	Impulse test	N/A	ı

Product Safety Consultant Inc.

Page : 26 of 43 Issue Date:2012-10-04

Cl. Requirement - Test	Result - Remark	Verdict
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Α	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
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)	All materials have suitable flame class, no testing required.	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 (see IEC 60695-11-3)		N/A
	Flame A, B, C or D		_
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)		N/A
A.2.1	Samples, material		_
	Wall thickness (mm)		_
A.2.2	Conditioning of samples; temperature (°C)		N/A
A.2.3	Mounting of samples		N/A
A.2.4	Test flame (see IEC 60695-11-4)		N/A
	Flame A, B or C		_
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)		_

Product Safety Consultant Inc.

Page : 27 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
		· T	· ·
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		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
A.3.3	Compliance criterion		N/A

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)			
B.1	General requirements	See below	N/A	
	Position	Refer to table 1.5.1	_	
	Manufacturer	Refer to table 1.5.1	_	
	Туре	Refer to table 1.5.1.	_	
	Rated values	Refer to table 1.5.1.	_	
B.2	Test conditions	The DC motor tested within the equipment, refer to table 1.5.1 for details.	Р	
B.3	Maximum temperatures	For secondary DC motor, see B.7.	Р	
B.4	Running overload test		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.6.1	General		N/A	
B.6.2	Test procedure		N/A	
B.6.3	Alternative test procedure		N/A	
B.6.4	Electric strength test; test voltage (V)		N/A	

Product Safety Consultant Inc.

Page : 28 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		Р
B.7.1	General	See below	Р
B.7.2	Test procedure	Performed, cheesecloth and tissue paper did not char or flame. See appended table 5.3.	Р
B.7.3	Alternative test procedure		N/A
B.7.4	Electric strength test; test voltage (V)		Р
B.8	Test for motors with capacitors		Р
B.9	Test for three-phase motors		N/A
B.10	Test for series motors		N/A
	Operating voltage (V)		_
С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3	3.3)	N/A
	Position		_
	Manufacturer		_
	Туре		_
	Rated values		_
	Method of protection		_
C.1	Overload test		N/A
C.2	Insulation		N/A
	Protection from displacement of windings		N/A
D	ANNEX D, MEASURING INSTRUMENTS FOR (see 5.1.4)	TOUCH-CURRENT TESTS	N/A
D.1	Measuring instrument		N/A
D.2	Alternative measuring instrument		N/A
E	ANNEX E, TEMPERATURE RISE OF A WINDIN	NG (see 1.4.13)	N/A

Product Safety Consultant Inc.

Page : 29 of 43 Issue Date:2012-10-04

CI.	Requirement - Test Result - Remark	Verdict
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANC (see 2.10 and Annex G)	ES N/A
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	N/A
G.1	Clearances	N/A
G.1.1	General	N/A
G.1.2	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	Earthed d.c. mains supplies	N/A
G.2.3	Unearthed d.c. mains supplies	N/A
G.2.4	Battery operation	N/A
G.3	Determination of telecommunication network transient voltage (V)	N/A
G.4	Determination of required withstand voltage (V)	N/A
G.4.1	Mains transients and internal repetitive peaks	N/A
G.4.2	Transients from telecommunication networks	N/A
G.4.3	Combination of transients	N/A
G.4.4	Transients from cable distribution systems	N/A
G.5	Measurement of transient voltages (V)	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
G.6	Determination of minimum clearances	N/A
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)	N/A

Product Safety Consultant Inc.

Page : 30 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTE	ENTIALS (see 2.6.5.6)	N/A
	Metal(s) used		
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	5.3.8)	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		N/A
			•
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOBUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	OME TYPES OF ELECTRICAL	Р
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		Р
М	ANNEX M, CRITERIA FOR TELEPHONE RINGING	G 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		
M.3.1.1	Frequency (Hz)		_
M.3.1.2	Voltage (V)		_

Product Safety Consultant Inc.

Page	: 31 of 43
Issue Da	ate:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
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
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V)		N/A
N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 a	and Clause G.5)	N/A
N.1	ITU-T impulse test generators		N/A
N.2	IEC 60065 impulse test generator		N/A
<u> </u>			
Р	ANNEX P, NORMATIVE REFERENCES		_
Q	ANNEX Q, Voltage dependent resistors (VDRs) (se	ee 1.5.9.1)	N/A
	a) Preferred climatic categories		N/A
	b) Maximum continuous voltage		N/A
	c) Pulse current		N/A
T	1		
R	Annex R, EXAMPLES OF REQUIREMENTS FOR (PROGRAMMES	QUALITY CONTROL	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A
_	T		
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING	ز (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

Product Safety Consultant Inc.

Page : 32 of 43 Issue Date:2012-10-04

CI.	Requirement - Test Resu	ılt - Remark	Verdict
Т	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		
			_
U	ANNEX U, INSULATED WINDING WIRES FOR USE WIT INSULATION (see 2.10.5.4)	HOUT INTERLEAVED	N/A
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1	.6.1)	N/A
V.1	Introduction		N/A
V.2	TN power distribution systems		N/A
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
Х	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFOR (see clause C.1)	MER TESTS	N/A
X.1	Determination of maximum input current		N/A
X.2	Overload test procedure		N/A

Product Safety Consultant Inc.

Page : 33 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
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 2.1	0.3.2 and Clause G.2)	N/A
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N/A
BB	ANNEX BB, CHANGES IN THE SECOND EDITION		
CC	Annex CC, Evaluation of integrated circuit (IC) curre	nt 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	f rack-mounted equipment	N/A
DD.1	General		N/A
DD.2	Mechanical strength test, variable N		N/A
DD.3	Mechanical strength test, 250N, including end stops		N/A
DD.4	Compliance		N/A

Product Safety Consultant Inc.

Page : 34 of 43 Issue Date:2012-10-04

CI.	Requirement - Test	Result - Remark	Verdict
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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

Product Safety Consultant Inc.

Page : 35 of 43 Issue Date:2012-10-04

1.5.1	TAB	TABLE: list of critical components					Р
Object/part r	10.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mar	k(s) of formity ^{1.}
РСВ		Various	Various	V-1 minimum, 105°C minimum.	UL 796	UL	
Enclosure		Various	Various	HB minimum.	UL 94	UL	
POE Power Adaptor (Optional)		Various	Various	I/P: 100-240V~, 50-60Hz. O/P: DC 48V, 0.35A, Class II. "LPS" type.	IEC/EN 60950-1	CE	
Note(s):	Note(s):						

1.6.2			Р				
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
48Vdc	0.069	0.35	3.312			Maximum normal load.	
Supplement	ary informa	tion:					

Product Safety Consultant Inc.

Page : 36 of 43 Issue Date:2012-10-04

4.5	TABLE: Thermal requir	ements			Р												
	Supply voltage (V)	:		POE	POE (48Vdc)												
	Ambient T _{min} (°C)	:			_												
	Ambient T _{max} (°C)	:			_												
Maximum n	neasured temperature T	of part/at:	:	T (°C	Allowed T _{max} (°C)												
Max. ambie	nt temperature Tma (°C):																
Note: ambie	ent air during test were Ta	mb =26.7	°C			45.0)										
L95 body						58.0	6		105								
T1 coil					105												
T1 core					105												
U4 body					100												
C6 body					85												
PCB near U	1				105												
PCB near U	29				105												
Motor body	near shot				105												
Motor body	near bottom				105												
BT1 body					85												
Enclosure in	nside																
Enclosure o	utside					52.4	4		95								
Supplemen	tary information:																
Temperatur	e T of winding:	t ₁ (°C)		(Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class								

Supplementary information:

- 1. The temperatures were measured under worst case normal mode defined in 1.2.2.1 and as described in 1.6.2 at voltages as described in above.
- 2. Unit specified with maximum of 45°C ambient temperature and above test data was calculated by original test result of ambient temperature above.

Product Safety Consultant Inc.

Page : 37 of 43 Issue Date:2012-10-04

ning measurements		Р
Size (mm)	Comments	
	None.	
	Size (mm)	Size (mm) Comments

5.3		TABLE	ABLE: fault condition tests														
		ambient temperature (°C) : See below															
		model/t		_													
		manufa	cturer of	Power Supply	ee table 1.5.1		_										
		rated markings of Power Supply: See table 1.5.1															
No.	comp No.	onent	fault	test voltage (V)	test time	fuse No.)	fuse current (A)	result								
01	All mo	otor	Locked	48Vdc				Normal operation maximum tempe Motor #01 coil= 4 Motor #02 coil= 4 Ambient= 25.1°C hazards.	rature: I7.4°C, I8.9°C,								
suppl	ement	ary infor	mation			•		<u> </u>									

Product Safety Consultant Inc.

Page : 38 of 43 Issue Date:2012-10-04

Appendix I - Label



Product Safety Consultant Inc.

Page : 39 of 43 Issue Date:2012-10-04

Appendix II - EuT Photographs

Page 1 of 4



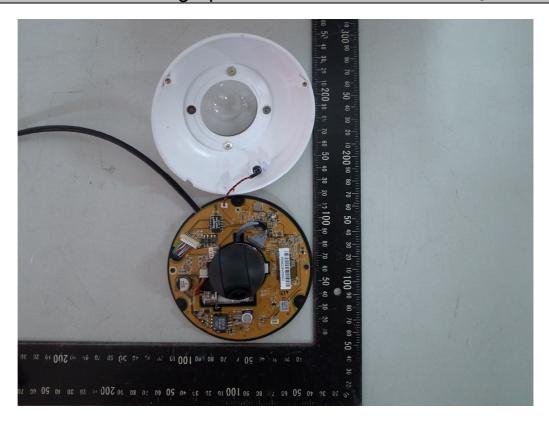


Product Safety Consultant Inc.

Page : 40 of 43 Issue Date:2012-10-04

Appendix II - EuT Photographs

Page 2 of 4



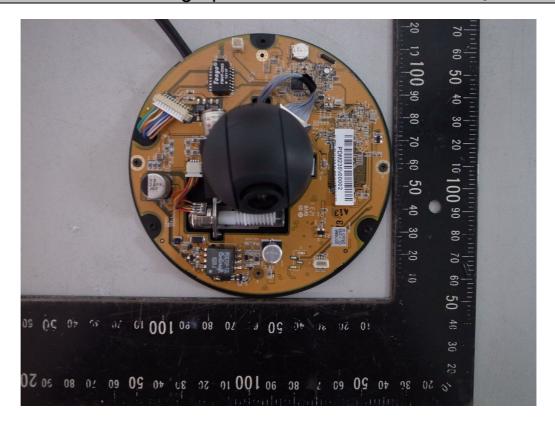


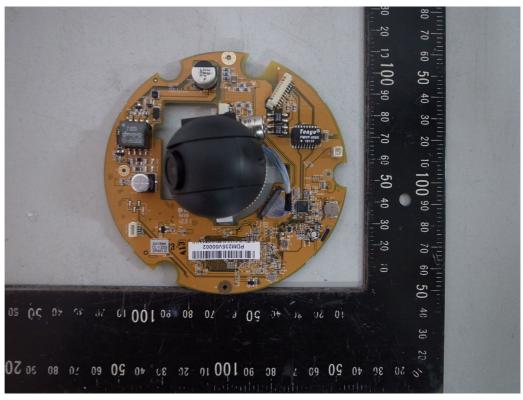
Product Safety Consultant Inc.

Page : 41 of 43 Issue Date:2012-10-04

Appendix II - EuT Photographs

Page 3 of 4



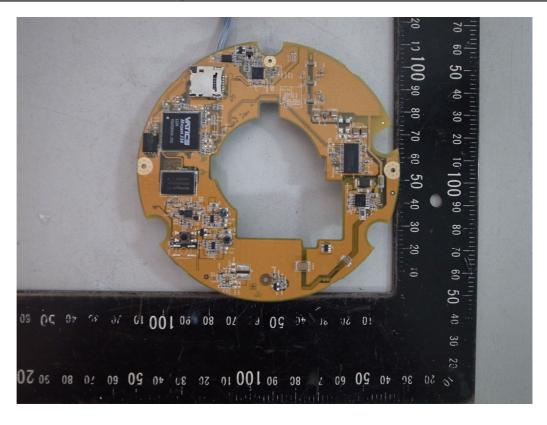


Product Safety Consultant Inc.

Page : 42 of 43 Issue Date:2012-10-04

Appendix II - EuT Photographs

Page 4 of 4



Product Safety Consultant Inc.

Page : 43 of 43 Issue Date:2012-10-04

Appendix III - Instrument list

校驗計畫暨儀器清冊

解析度 0.1~0.2							1	. 1		- 1			i l	0.0	- 1		1		1		1										1						Ī							1	Ì	1	
	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	***	5 1/2	3 1/2	2s/all chamels	6 1/2	6 1/2 100V ACIDS			0.01mΩ/0.1mΩ/1mΩ/0.01Ω/0.01Ω/0.001KΩ/0.01KΩ	0.1°C./0.1% RH.		1300	:		0.01mm	1.	0.01kg		0.1% • 0.1°	0.1~0.2	0.1	0.1°	0.1°	0.05mm	0.1% • 0.1	0.001mm	1.	水準+/-0.01%	6 1/2	: !		1				***	:	***				
規格 Range 30A	50A	50A	30A	30A	50A	ACV 500V, AC 20A, 10kW	DCV 1000V, ACV 750V, DC 10A, AC 10A, 10MΩ	DCV 1000V, ACV 600V, DC 10A, AC 10A, 19MΩ	30ch	40ch · 0~200°C	40ch · 0~200°C	AC 300V, AC 10A, DC 10mA	ACV 520V, AC 100A, 6kW, 1kHz	30mΩ/200mΩ/2Ω/20Ω/200Ω/2KΩ/30KΩ	-40°C ~+150°C 20%-98% RH.	25kg	20N: R 2.5mm	1	***	150mm	06،	150kg	0.5kg	1-99%RH, -20-+60°C	50A	AC 110/220V, 50/60Hz	50°C → +1000°C	5CH, -50℃ ~ +1000℃	10Hz ~ 100 Hz; 损储 0.35mm	10-95-RRH, -20- +60°C	1.Mnut, 1.Jnut, z.Mnut, z.Jnut 0-25mm	2,09€ ~ 2,0	垂直 2m-5(V/DIV), 水準10n-5(s/DIV)	40ch · 0~200°C	10-350CM 1000V dc. 4 G Ohm	12K Vdc, 5000uA			1			CH.A +60V/50A, 250W CH.B +60V/5A, 50W	ACV 230V, AC 10A, 1500W, 50-60Hz	30Hz~148MHz	5Vp-p, 49Hz~900MHz	Flat Frequency Response - 20dBV	0.5m/s; 1.0m/s; 3.0m/s
下次 到期月04/2013	09/2013	09/2013	09/2013	09/2013	09/2013	03/2013	09/2013	04/2013	04/2013	07/2013	05/2013	05/2013	09/2013	09/2013	12/2012	07/2013	02/2015	06/2013	02/2015	06/2013	12/2013	12/2012	02/2015	04/2013	12/2012	12/2012	01/2013	01/2013	02/2013	09/2013	02/2015	06/2013	07/2013	03/2013	06/2014	05/2013	06/2014	06/2014	06/2014	06/2014	01/2014	08/2013	07/2013	03/2013	03/2013	05/2013	06/2015
追謝報告編號 OCL-2411204W11A3L	OCL-2411209W05E1L	OCL-2411209W05E2L	OCL-2411209W05E3L	OCL-2411309W05E4L	OCL-2411209W05E6L	OCL-2411203W28B2L	OCL-2411209W05E7L	OCL-2411204W11A2L	OCL-2411204W11A1L	OCL-2411207M02A1L	OCL-2411205W23A2L	OCL-2411205W09A1L	OCL-2411209W05E8L	OCL-2411209T25D1L	OCL-2411112W07A5L	OCL-2411207M02A1L	OIT-411202M06A3L	OCL-2411206M04A1L	OIT-2411202M06A1L	OCL-2411206M04A1L	OCL-2411012F10A1	OCL-2411112W07A6L	OIT-2411202M06A2L	1225/9 OCL-2411204W11A5L	OCL-2411112WØA3L	OCL-2411112W07A4L	OCL-2411201M06A2L	OCL-2411201M06A1L	OCL-2411202M06A1L	OCL-2411209T25D2L	OCL-2411202M06A3L	OCL-2411206M04A3	10107C02310-2-1-03	OCL-2411203W28B1L	AD00129 OCL-2411302M06A21.	OCL-2411205W23A1L	OCL-2411106H02A2L	OCL-2411106H02A3L	OCL-2411106H02A4L	OCL-2411106H02A5L	OCL-2411101F14A3L	OCL-2411208H09FIL	OCL-2411207T24BIL	OCL-2411203W28B3	OCL-2411203W28B4	OCL-2411205F18A1	OCL-2411206M04A2
校正機構 字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	于正(0742) 字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	中下(0742)	字正(2399)	字正(2399)	字正(0742)	字正(0742)	字正(0742)	字正(2399)	近確(0047) 字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	字正(0742)	工研院(0016)	字正(0742)	標機局(0008) 平正(0742)	字正(0742)	字正(2399)	字正(2399)	字正(2399)	字正(2399)	字正(0742)	字正(0742)	字正(0742)	職(X(1802) 字正(0742)	字正(0742)	字正(0742)	字正(0742)
下次校正日期 Calibration Due Date 04/12/2013	09/06/2013	09/06/2013	09/06/2013	09/06/2013	09/06/2013	03/29/2013	09/06/2013	04/12/2013	04/12/2013	07/03/2013	05/24/2013	05/10/2013	09/06/2013	09/26/2013	12/06/2012	07/03/2013	02/05/2015	06/05/2013	02/05/2015	06/04/2013	12/09/2013	12/06/2012	02/16/2015	04/12/2013	12/06/2012	12/06/2012	01/09/2013	01/09/2013	02/05/2013	09/26/2013	02/05/2015	06/04/2013	07/25/2013		06/16/2014	05/24/2013	06/02/2014	06/02/2014	06/02/2014	06/02/2014	01/13/2014	08/10/2013	07/25/2013	03/29/2013	03/29/2013	05/21/2013	06/04/2015
校正日期 Last Calibration Date 04/12/2012	09/06/2012	09/06/2012	09/06/2012	09/06/2012	09/06/2012	03/29/2012	09/06/2012	04/12/2012	04/12/2012	07/03/2012	05/24/2012	05/10/2012	09/06/2012	09/26/2012	12/07/2011	07/03/2012	02/06/2012	06/05/2012	02/06/2012	06/04/2012	12/10/2010	12/07/2011	02/17/2012	02/20/2012	12/07/2011	12/07/2011	01/10/2012	01/10/2012	02/06/2012	09/26/2012	02/06/2012	06/04/2012	07/25/2012	03/29/2012	06/17/2011	05/24/2012	06/03/2011	06/03/2011	06/03/2011	06/03/2011	01/14/2011	08/10/2012	07/25/2012	03/29/2012	03/29/2012	05/21/2012	06/04/2012
校	1年	1年	世	1年		1年	1年	事[1年	1年	1年	1年	1年	1年	1年	年	珠	1年	3年	1年	3年	1年	3年	3年	1年	1年	1年	1年	1年	1年	3年	1年	1年	1年	3年	1年	3年	3年	3年	3年	3年	年	年	7年	1年	1年	3年
校 類別 教 教	外校	外校	外校	外校	茶茶	外校	外校	外校	外校	外校	外校	外校	外校		_	外校	外校	外校	外校	外校	1	\dashv	外校	外校	外校	外校	外校	外校	外校	外校	外校	外校	外校	外校	A A A A A A A A A A A A A A A A A A A	外校	外校	外校	外校	外校	外校	外校	外校	外校	外校	外校	外校
型號 Model ST-2000	ST-2000	ST-2000	ST-2000	ST-2000	ST-2000	GP-310	45	ш.//	DR-240	34970A	34970A	228		TM-8088	H-TH-2SP-CH	DPP-25kg	BPT-01	TFP-01	-	500-196	!	MTW-150	1 000	128210	ST-2000	BFA-100-10	uR-1000	uR-1000	VS-5060L	TES-1361C	103-137	ZRS-2	9354C	34970A	3.5M	7462	:	:		:	TT-J-36	3302C	WT-210	VG-859	PM5418	NG8280	1340
聚牌 Manufacture SEW	SEW	SEW	SEW	SEW	SEW	Idro	FLUKE	FLUKE	Yokogawa	Agilent	Agilent ASSOCIATED RESEARCH	SIMPSON	Elcontrol Nanovip Plus	Twintex	HOLINK	CHATILLON	ED&D	ED&D	辰輝	Mitutoyo	Level	Jen Lung		Advantest	SEW	BOARD-TECH	YOKOGAWA	YOKOGAWA	Vibration Source	TES	MITUTOYO	1	LECROY	Agilent	Tajima Extech	Extech	1			:	Omega	Prodigit	YOKOGAWA	ASTRO	PHILIPS	Friborg	TES
儀器設備名稱(英文) Instrument DCA METER	DCA METER	DCA METER	DCA METER	DCA METER	DCA METER	Digital Power Meter	MULTIMETER	MULTIMETER	TEMP. RECORDER" 1"	TEMP. RECORDER" 2"	TEMP. RECORDER" 3" HI-POT	LEAKAGE CURRENT	Watt/Harmonic	Milliohm Meter	Champer	PULL-PUCH	Ball Pressure Test	Test Finger Probe	Test pin	Caliper	Angle Finder	Weight Meter	STEEL BALL	Thmometer & ygrometer	ACA METER	FREQUENCY CONVERTER	TEMP. RECORDER" 4"	TEMP. RECORDER" 5"	Vibration	Humidity Temp. Meter	Micrometer	Glow-wire	Digital Oscilloscope	TEMP. RECORDER" 6"	Equipment Meschm Meter	Hi-Pot	Test Hook		Test probe	Needle Flam Tester	Thermocouple	Electronic Load	Power Meter	Signal producer	TV Signal producer	Pink Noise Generator	Air meter
儀器設備名稱(中文) 直流電表	直流電表	直流電表	直流電表	直流電表本	直流電表	數位式功率表	三用電表	三用電表	溫度記錄器	溫度記錄器	温度記錄器	編電流測試器	電力分析儀	微電阻計	可程式恆溫恆濕機	推張力計	11年7年	測試手指	測試針	數位式游標卡尺	角度規	電子秤	搬 珠	光切率計 循線度計	交流電表	變頻器	溫度記錄器	溫度記錄器	價性式振動試驗機	追線度計	<u> </u>	熾熱線裝置	示波器	溫度記錄器	捲尺 经参组抗测试器	直流耐壓分析儀	測試夠	本生燈測試頭	測試棒	針缩試驗機	熱電偶線(J-type)	電子式負載	数位式功率表四种形式	訊練產生器	TV訊號產生器	粉紅訊號產生器	風速計
儀器序號 Serial No. 931103/3	931112/12	931113/13	9408025/20	9408026/21	931114	368059	5865141/25	75470787	12WB02879	MY41019121	MY 44050079	20562	18020	04810LT	EK03100101	16348	20805	20806	-	3054768	OCL-901203013	MJY04139		9/91323	931116	BT30048	46XE0282	46XE0281	2597	100217927	46168928	2005010512	NPSC003	MY 44012593	SPSC041	1320101		0804W16B2	-	i	1	11202C300	91F420805	2907007	LO642857	201	100403235
原始編號 No SPSC001	SPSC002	SPSC003	SPSC004	SPSC005	SPSC007	SPSC008	SPSC009	SPSC010	SPSC011	SPSC012	SPSC013	SPSC015	SPSC016	SPSC017	SPSC018	SPSC019	SPSC021	SPSC022	SPSC023			SPSC026	SPSC027	SPSC028	SPSC030	SPSC031	SPSC032	SPSC033	SPSC034	SPSC035	SPSC037	SPSC038	SPSC039	_	SPSC041	SPSC043	SPSC044	SPSC045	SPSC046	SPSC047	SPSC056	SPSC057	SPSC058	SPSC060	SPSC061	SPSC062	SPSC063
N 5	2 5		$^+$	vo v		8	H	10 8	+	+	51 21	╁	16	17 8	_	61 8	+	-	23 8	\dashv	\dashv	\dashv	+	8 8	 	31	32	+	+	+	8 18	\vdash	30	-+	14 04	+	1	Н	46	\dashv	48	-	8 5	╁	┢	\vdash	25

