

COVER PAGE FOR TEST REPORT

Product Category:	Power Supplies for Information Technology Equipment Including Electrical Business Equipment
Product Category CCN:	QQGQ, QQGQ7
Test Procedure:	Listing
Product:	Cord connected power adaptor
Model/Type Reference:	<p>FYXXXXYYY series:</p> <p>I) XXX: Three digits, from 030 to 580 indicates the output voltage in volt when divided by 10,</p> <p>II) YYYYY: Four digits, from 0300 to 7500 indicates the output current in Ampere when divided by 1000.</p> <p>1) If XXX=030, YYYYY should be 0300, 0400, 0500, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500</p> <p>2) If XXX=042, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500</p> <p>3) If XXX=050, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500</p> <p>4) If XXX=060, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500</p> <p>5) If XXX=075, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500</p> <p>6) If XXX=085, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500</p> <p>7) If XXX=090, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500</p> <p>8) If XXX=100, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500</p> <p>9) If XXX=120, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500</p> <p>10) If XXX=126, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500</p> <p>11) If XXX=135, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000</p> <p>12) If XXX=150, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000</p> <p>13) If XXX=160, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 3750, 4000, 5000, 6000</p> <p>14) If XXX=170, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000</p> <p>15) If XXX=180, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000</p> <p>16) If XXX=190, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 3150, 4000, 4750, 5000, 6000</p> <p>17) If XXX=210, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000</p> <p>18) If XXX=240, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000</p> <p>19) If XXX=255, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500</p>

- 20) If XXX=290, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500, 3000, 3500, 4000
- 21) If XXX=300, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500, 3000, 3500,
- 22) If XXX=340, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500, 3000
- 23) If XXX=360, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500, 3000
- 24) If XXX=380, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500, 3000
- 25) If XXX=425, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500, 2800
- 26) If XXX=430, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500, 2700
- 27) If XXX=440, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500, 2700
- 28) If XXX=450, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500
- 29) If XXX=460, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500
- 30) If XXX=480, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2500
- 31) If XXX=510, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 2200
- 32) If XXX=550, YYYY should be 2000
- 33) If XXX=580, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000

Rating(s):

Input: 100-240 V~, 50/60 Hz, 2.5 A
Output: See Enclosure_Miscellaneous

Standards:

UL 60950-1:2003, First Edition
CSA C22.2 No. 60950-1-03 1st Ed. April 1, 2003

Applicant Name and Address:

FUYUAN ELECTRONIC CO LTD
XIEWU VILLAGE, HENGSHAN
SHIPAI TOWN
DONGGUAN,
GUANGDONG 523335 CHINA

This Report includes the following parts, in addition to this cover page:

- 1. Specific Inspection Criteria
- 2. Specific Technical Criteria
- 3. Clause Verdicts
- 4. Critical Components
- 5. Test Results
- 6. National Differences
- 7. Enclosures

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of Underwriters Laboratories Inc. ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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Test Report By:

Reviewed By:

Gordon Shu
Associate Project Engineer
UL - CCIC Company Limited

UL International Services Limited, Taiwan Branch

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SPECIFIC INSPECTION CRITERIA

BA1.0	Special Instructions to UL Representative
BA1.1	N/A

BB1.0	Supporting Documentation
BB1.1	<p>The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:</p> <p>A. Authorization - The Authorization page may include additional Factory Identification Code markings.</p> <p>B. Generic Inspection Instructions -</p> <p>i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.</p> <p>ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.</p> <p>iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.</p>

BC1.0	Markings and instructions	
BC1.1	The following markings and instructions are provided as indicated.	
BC1.2	All clause references are from UL 60950-1:2003, First Edition.	
Standard Clause	Clause Title	Marking or Instruction Details
1.5.5	Inter-connecting cables - External detachable	Listee's Name and Part number (Marking or Instruction)
1.7.1	Power rating - Ratings	Ratings (voltage, frequency/dc, current)
	Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
	Power rating - Model	Model Number
	Power rating - Class II symbol	Symbol for Class II construction <input type="checkbox"/> (60417-2-IEC-5172)
1.7.6	Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.

BD1.0	Production-Line Testing Requirements							
BD1.1	Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.							
						Test Potential		
	Model	Component	Removable Parts	Test probe location		V rms	V dc	Test Time, s
	N/A	--	--	--	--	--	--	--
BD1.2	Earthing Continuity Test Exemptions - This test is not required for the following models:				--			
BD1.3	Electric Strength Test Exemptions - This test is not required for the following models:				--			
BD1.4	Electric Strength Test Component Exemptions - The following solid-state components may disconnected from the remainder of the circuitry during the performance of this test:				--			

BE1.0	Sample and Test Specifics for Follow-Up Tests at UL						
BE1.1	Model	Component	Material	Test	Sample(s)	Test Specifics	
	N/A	--	--	--	--	--	

SPECIFIC TECHNICAL CRITERIA

UL 60950-1, First Edition Information technology equipment - Safety- Part 1: General Requirements	
Report Reference No.....	E304160-A1
Compiled by	Gordon Shu
Reviewed by	_____
Date of issue	_____
Standards	UL 60950-1:2003, First Edition CSA C22.2 No. 60950-1-03 1st Ed. April 1, 2003
Test procedure	Listing
Non-standard test method	N/A
Test item description	Cord connected power adaptor
Trademark	None
Model and/or type reference	FYXXXXYYY series: I) XXX: Three digits, from 030 to 580 indicates the output voltage in volt when divided by 10, II) YYYYY: Four digits, from 0300 to 7500 indicates the output current in Ampere when divided by 1000. 1) If XXX=030, YYYYY should be 0300, 0400, 0500, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500 2) If XXX=042, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500 3) If XXX=050, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500 4) If XXX=060, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500 5) If XXX=075, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500 6) If XXX=085, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500 7) If XXX=090, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500 8) If XXX=100, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500 9) If XXX=120, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500 10) If XXX=126, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 7500 11) If XXX=135, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000 12) If XXX=150, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000 13) If XXX=160, YYYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 3750, 4000, 5000, 6000 14) If XXX=170, YYYYY should be 0300, 0400, 0500, 0600, 0700.

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- 15) If XXX=180, YYYY should be 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1500, 2000, 3000, 4000, 5000, 6000
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Rating(s): Input: 100-240 V~, 50/60 Hz, 2.5 A
 Output: See Enclosure_Miscellaneous

Particulars: test item vs. test requirements

- Equipment mobility: movable and transportable
- Operating condition: continuous
- Mains supply tolerance (%): +6%, -10%
- Tested for IT power systems: No
- IT testing, phase-phase voltage (V): N/A
- Class of equipment: Class II (double insulated)
- Mass of equipment (kg): 0.32

Protection against ingress of water : IP X0

Possible test case verdicts:

- test case does not apply to the test object : N / A
- test object does meet the requirement : Pass
- test object does not meet the requirement : Fail (acceptable only if a corresponding, less stringent national requirement is "Pass")

General remarks:

- "(see Enclosure #)" refers to additional information appended to the Test Report
- "(see appended table)" refers to a table appended to the Test Report
- Throughout the Test Report a point is used as the decimal separator

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GENERAL PRODUCT INFORMATION:	
CA1.0	Report Summary
CA1.1	N/A
CB1.0	Product Description
CB1.1	A Class II external switching power adaptor with SELV output. The equipment FYXXXXYYY Series is a switching power supply for use in information technology equipment. Configuration: Consist of electronic components mounted on PWB and then housed with plastic enclosure. The bottom and top enclosure are fixed by ultra-sonic welding.
CC1.0	Model Differences
CC1.1	All models are identical except of output ratings, transformer secondary turns, D8, D9, C15, C17.
CD1.0	Additional Information
CD1.1	N/A
CE1.0	Technical Considerations
CE1.2	The product was submitted and tested for use at the maximum ambient temperature (T _{ma}) permitted by the manufacturer's specification of: 25 Deg.C
CE1.3	The means of connection to the mains supply is: Detachable power cord, Pluggable A
CE1.4	The product is intended for use on the following power systems: TN
CE1.5	The equipment disconnect device is considered to be: Appliance inlet
CE1.14	The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

1	GENERAL		Pass
1.5	Components		Pass
1.5.1	General		Pass
	Comply with IEC 60950 or relevant component standard	(see appended table 1.5.1)	Pass
1.5.2	Evaluation and testing of components	Components certified to IEC harmonized standard and checked for correct application. Components, for which no relevant IEC-Standard exist, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950. Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950 and the relevant component Standard.	Pass
1.5.3	Thermal controls		N/A
1.5.4	Transformers		Pass
1.5.5	Interconnecting cables	Interconnecting cable is SPT-1	Pass
1.5.6	Capacitors in primary circuits	Line-to-line capacitors are subclass X1 or X2.	Pass
1.5.7	Double insulation or reinforced insulation bridged by components	Y1 capacitor used	Pass
1.5.7.1	General		Pass
1.5.7.2	Bridging capacitors	See Component list for details	Pass
1.5.7.3	Bridging resistors		N/A
1.5.7.4	Accessible parts	Accessible conductive parts separated from other parts by DOUBLE or REINFORCED INSULATION bridged by C9 comply with the requirements for LIMITED CURRENT CIRCUITS.	Pass
1.5.8	Components in equipment for IT power systems		N/A

1.6	Power interface		Pass
1.6.1	AC power distribution systems		Pass
1.6.2	Input current		Pass

1.6.3	Voltage limit of hand-held equipment	The unit is not a hand-held equipment.	N/A
1.6.4	Neutral conductor		Pass

1.7	Marking and instructions		Pass
1.7.1	Power rating	Rating marking readily visible to operator.	Pass
	Rated voltage(s) or voltage range(s) (V).....:	100-240 V~	Pass
	Symbol for nature of supply, for d.c. only.....:		N/A
	Rated frequency or rated frequency range (Hz)	50/60 Hz	Pass
	Rated current (mA or A)	1.5 A	Pass
	Manufacturer's name or trademark or identification mark	Fuyuan Electrical Factory Ltd or "E304160"	Pass
	Type/model or type reference	FYXXYYYY series, Refer to the Model information at the beginning of this Test Report.	Pass
	Symbol for Class II equipment only.....:	60417-1-IEC-5172 symbol marked.	Pass
	Other symbols	Other markings do not give rise to misunderstanding.	Pass
	Certification marks.....:	UL, cUL	Pass
1.7.2	Safety instructions	Operating/safety instructions made available to the user.	Pass
1.7.3	Short duty cycles		N/A
1.7.4	Supply voltage adjustment.....:	Equipment is auto-ranging.	Pass
1.7.5	Power outlets on the equipment.....:		N/A
1.7.6	Fuse identification	Fuse marking provided as follows: 250V, 3.0A.	Pass
1.7.7	Wiring terminals		N/A
1.7.7.1	Protective earthing and bonding terminals.....:	Class II product, not connected to protective earth.	N/A
1.7.7.2	Terminal 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		N/A
1.7.8.1	Identification, location and marking.....:		N/A
1.7.8.2	Colours		N/A
1.7.8.3	Symbols according to IEC 60417.....:	There are no switches in the equipment.	N/A

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1.7.8.4	Markings using figures		N/A
1.7.9	Isolation of multiple power sources		N/A
1.7.10	IT power distribution systems -	Not intended for use on IT power systems.	N/A
1.7.11	Thermostats and other regulating devices		N/A
1.7.12	Language	Reviewed only English markings/instructions.	-
1.7.13	Durability	The marking withstood the required test.	Pass
1.7.14	Removable parts	No removable part.	N/A
1.7.15	Replaceable batteries	No battery	N/A
	Language		-
1.7.16	Operator access with a tool.....	No operator access areas require the use of a tool.	N/A
1.7.17	Equipment for restricted access locations		N/A

2	PROTECTION FROM HAZARDS		Pass
2.1	Protection from electric shock and energy hazards		Pass
2.1.1	Protection in operator access areas		Pass
2.1.1.1	Access to energized parts	The operator has access to bare parts of SELV CIRCUITS.	Pass
	Test by inspection	No access to hazardous parts	Pass
	Test with test finger	No access to hazardous parts	Pass
	Test with test pin	no openings	Pass
	Test with test probe	No TNV present.	N/A
2.1.1.2	Battery compartments		N/A
2.1.1.3	Access to ELV wiring	No internal wiring in an ELV circuits is accessible to the operator.	N/A
	Working voltage (V); minimum distance (mm) through insulation		-
2.1.1.4	Access to hazardous voltage circuit wiring	No internal wiring accessible to the user.	N/A
2.1.1.5	Energy hazards	The output of the power supply is not an energy hazard.	Pass
2.1.1.6	Manual controls	The equipment does not contain any knobs, handles, levers, or the like.	N/A
2.1.1.7	Discharge of capacitors in equipment		Pass

	Time-constant (s); measured voltage (V).....:	Measurements taken line-to-line.Vtc: voltage after 1.0 second. Vo(V pk):360Vac 37%Vo(V pk):133.2Vac Vtc(V pk): 0V	-
2.1.2	Protection in service access areas		N/A
2.1.3	Protection in restricted access locations		N/A

2.2	SELV circuits		Pass
2.2.1	General requirements		Pass
2.2.2	Voltages under normal conditions (V).....:	All accessible voltages are less than 42.4 Vp or 60 V dc and are classified as SELV.	Pass
2.2.3	Voltages under fault conditions (V).....:	Under fault conditions voltages never exceed 71V peak and 120Vdc and do not exceed 42.4V peak or 60V dc for more than 0.2 sec.	Pass
2.2.3.1	Separation by double insulation or reinforced insulation (method 1)		Pass
2.2.3.2	Separation by earthed screen (method 2)		N/A
2.2.3.3	Protection by earthing of the SELV circuit (method 3)		N/A
2.2.4	Connection of SELV circuits to other circuits.....:	SELV connected to limited current circuit.	Pass

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
	Insulation employed.....:		-
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		Pass
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2.4.1	General requirements		Pass
2.4.2	Limit values	0.5mA rms	Pass
	Frequency (Hz).....:	--	-
	Measured current (mA)	0.09	-
	Measured voltage (V).....:	--	-
	Measured capacitance (mF)	--	-
2.4.3	Connection of limited current circuits to other circuits	The LIMITED CURRENT CIRCUIT connected to other circuits complies with the requirements of Sub-clause 2.4.1.	Pass

2.5	Limited power sources		N/A
	Inherently limited output	No LPS.	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
	Regulating network limited output under normal operating conditions and overcurrent protective device limited output under single fault condition		N/A
	Output voltage (V), output current (A), apparent power (VA):		-
	Current rating of overcurrent protective device (A):		-

2.6	Provisions for earthing and bonding		N/A
2.6.1	Protective earthing		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 (mm ²), AWG.....:		-
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm ²), AWG.....:		-

2.6.3.4	Resistance (Ohm) of earthing conductors and their terminations, test current (A).....:		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 and 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		Pass
2.7.1	Basic requirements	Protection provided as part of the building installation.	Pass
	Instructions when protection relies on building installation	Pluggable Type A.	N/A
2.7.2	Faults not covered in 5.3	Protection from faults not covered in 5.3 are provided by installation.	Pass
2.7.3	Short-circuit backup protection	The equipment is pluggable Type A. The building installation is considered as providing short-circuit backup protection.	Pass
2.7.4	Number and location of protective devices	One protective device in either phase conductor.	Pass
2.7.5	Protection by several devices	One device only	N/A
2.7.6	Warning to service personnel.....:		N/A

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2.8	Safety interlocks		N/A
2.8.1	General principles	No safety 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		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
2.8.7.4	Electric strength test		N/A
2.8.8	Mechanical actuators		N/A

2.9	Electrical insulation		Pass
2.9.1	Properties of insulating materials		Pass
2.9.2	Humidity conditioning	48 hrs	Pass
	Humidity (%).....:	93	-
	Temperature (jāC).....:	24.5	-
2.9.3	Grade of insulation	Basic, double or Reinforced, functional.	Pass

2.10	Clearances, creepage distances and distances through insulation		Pass
2.10.1	General		Pass
2.10.2	Determination of working voltage		Pass
2.10.3	Clearances		Pass
2.10.3.1	General		Pass
2.10.3.2	Clearances in primary circuit	(see appended table 2.10.3 and 2.10.4)	Pass
2.10.3.3	Clearances in secondary circuits	See 5.3.4.	Pass
2.10.3.4	Measurement of transient voltage levels		N/A
2.10.4	Creepage distances	(see appended table 2.10.3 and 2.10.4)	Pass
	CTI tests	Material group IIIb; 100 <= CTI < 175.	-

2.10.5	Solid insulation		Pass
2.10.5.1	Minimum distance through insulation	(see appended table 2.10.5)	Pass
2.10.5.2	Thin sheet material		Pass
	Number of layers (pcs).....:	Min.2 layers for double or Reinforced insulation	-
	Electric strength test.....:	3000 V Double or Reinforced	-
2.10.5.3	Printed boards		N/A
	Distance through insulation	Minimum 0.4 mm.	Pass
	Electric strength test for thin sheet insulating material.....:	(see appended table 5.2)	-
	Number of layers (pcs).....:	1 layer	Pass
2.10.5.4	Wound components	Construction C used	Pass
	Number of layers (pcs).....:	Secondary winding is TIW	Pass
	Two wires in contact inside wound component; angle between 45° and 90°		N/A
2.10.6	Coated printed boards	No special coating used.	N/A
2.10.6.1	General		N/A
2.10.6.2	Sample preparation and preliminary inspection		N/A
2.10.6.3	Thermal cycling		N/A
2.10.6.4	Thermal ageing (°C).....:		N/A
2.10.6.5	Electric strength test.....:		-
2.10.6.6	Abrasion resistance test		N/A
	Electric strength test.....:		-
2.10.7	Enclosed and sealed parts.....:		N/A
	Temperature T1=T2 = Tma - Tamb +10K (°C).....:		N/A
2.10.8	Spacings filled by insulating compound		N/A
	Electric strength test.....:		-
2.10.9	Component external terminations		N/A
2.10.10	Insulation with varying dimensions		N/A

3	WIRING, CONNECTIONS AND SUPPLY		Pass
3.1	General		Pass
3.1.1	Current rating and overcurrent protection	All internal wiring used in the distribution of primary power protected against overcurrent and short circuit by suitably	Pass

		rated protective devices.	
3.1.2	Protection against mechanical damage		Pass
3.1.3	Securing of internal wiring	The wires are positioned in such a manner that prevents excessive strain, loosening of terminal connections and damage of conductor insulation.	Pass
3.1.4	Insulation of conductors	Approved output cable	Pass
3.1.5	Beads and ceramic insulators	The equipment does not have any beads or similar insulators.	N/A
3.1.6	Screws for electrical contact pressure	The equipment does not have any screw-type connections.	N/A
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	N/A
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors		Pass
	10 N pull test		Pass
3.1.10	Sleeving on wiring		N/A

3.2	Connection to an a.c. mains supply or a d.c. mains supply		Pass
3.2.1	Means of connection	Listed detachable power cord	Pass
3.2.1.1	Connection to an a.c. mains supply		Pass
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	The equipment is not permanently connected.	N/A
	Number of conductors, diameter (mm) of cable and conduits		-
3.2.4	Appliance inlets		Pass
3.2.5	Power supply cords		Pass
3.2.5.1	AC power supply cords		Pass
	Type	See table 1.5.1	-
	Rated current (A), cross-sectional area (mm ²), AWG.....	See table 1.5.1	-
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
	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 conductors		N/A
3.3.1	Wiring terminals		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 (mm ²).....		-
3.3.5	Wiring terminal sizes		N/A
	Rated current (A), type and nominal thread diameter (mm)		-
3.3.6	Wiring terminals design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A

3.4	Disconnection from the mains supply		Pass
3.4.1	General requirement		Pass
3.4.2	Disconnect devices	The equipment is provided with an appliance coupler.	Pass
3.4.3	Permanently connected equipment	Not permanently connected equipment.	N/A
3.4.4	Parts which remain energized	No accessible parts on the supply side of the disconnect device.	N/A
3.4.5	Switches in flexible cords	No isolating switch in the cord set.	N/A
3.4.6	Single-phase equipment and d.c. equipment	Disconnect device disconnects all poles simultaneously.	Pass
3.4.7	Three-phase equipment	The unit is single-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	No interconnection of hazardous voltages or energy levels.	Pass
3.4.11	Multiple power sources	The equipment only receives power from one source.	N/A

3.5	Interconnection of equipment		Pass
3.5.1	General requirements		Pass
3.5.2	Types of interconnection circuits.....:	Interconnection circuits are SELV CIRCUITS.	Pass
3.5.3	ELV circuits as interconnection circuits		N/A

4	PHYSICAL REQUIREMENTS		Pass
4.1	Stability		N/A
	Angle of 10jã	Based on construction, the test was deemed not necessary.	N/A
	Test: force (N)		N/A

4.2	Mechanical strength		Pass
4.2.1	General		Pass
4.2.2	Steady force test, 10 N		Pass
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N		Pass
4.2.5	Impact test		Pass
	Fall test		Pass
	Swing test		N/A
4.2.6	Drop test		Pass
4.2.7	Stress relief test	No indication of shrinkage or distortion on enclosures due to the stress relief test (115oC/7 h).	Pass
4.2.8	Cathode ray tubes	The equipment does not have any CRTj_s	N/A
	Picture tube separately certified.....:		N/A
4.2.9	High pressure lamps	The equipment does not have	N/A

		any high pressure lamps.	
4.2.10	Wall or ceiling mounted equipment; force (N).....:		N/A

4.3	Design and construction		Pass
4.3.1	Edges and corners		Pass
4.3.2	Handles and manual controls; force (N)		N/A
4.3.3	Adjustable controls		N/A
4.3.4	Securing of parts		N/A
4.3.5	Connection of plugs and sockets	The equipment does not have any interchangeable plugs/sockets.	Pass
4.3.6	Direct plug-in equipment	Not 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); pull (N)		N/A
4.3.7	Heating elements in earthed equipment	The equipment does not have any heating elements.	N/A
4.3.8	Batteries		N/A
4.3.9	Oil and grease	The insulation of the internal wiring is not exposed to oil, grease, etc.	N/A
4.3.10	Dust, powders, liquids and gases		N/A
4.3.11	Containers for liquids or gases	The equipment does not contain liquids.	N/A
4.3.12	Flammable liquids		N/A
	Quantity of liquid (l)		N/A
	Flash point (°C).....		N/A
4.3.13	Radiation; type of radiation	The equipment does not generate ionizing radiation or contain flammable liquids or gases.	Pass
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	Laser (including LEDs)	The embedded and end-product emission class of the LED product is Class I.	Pass
	Laser class	LEDs provided for indicating only and operate in the wavelength range of 180 nm to 1 mm.	-
4.3.13.6	Other types		N/A

4.4	Protection against hazardous moving parts		N/A
4.4.1	General		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

4.5	Thermal requirements		Pass
4.5.1	Maximum temperatures	(see appended table 4.5)	Pass
	Normal load condition per Annex L	Operated in the most unfavorable way of operation given in the operating instructions until steady conditions established.	Pass
4.5.2	Resistance to abnormal heat		N/A

4.6	Openings in enclosures		Pass
4.6.1	Top and side openings	No openings	N/A
	Dimensions (mm)		-
4.6.2	Bottoms of fire enclosures	No openings	N/A
	Construction of the bottom		-
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment		N/A
4.6.5	Adhesives for constructional purposes		N/A
	Conditioning temperature (j°C)/time (weeks)		-

4.7	Resistance to fire		Pass
4.7.1	Reducing the risk of ignition and spread of flame	Use of materials with the required flammability classes.	Pass
	Method 1, selection and application of components wiring and materials		Pass
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure	With having the following parts: - Components in primary - Components in secondary circuits(not supplied by LPS) - Insulated wiring The fire enclosure is required.	Pass
4.7.2.1	Parts requiring a fire enclosure		Pass
4.7.2.2	Parts not requiring a fire enclosure	output cable is VW-1	Pass
4.7.3	Materials		Pass
4.7.3.1	General		Pass
4.7.3.2	Materials for fire enclosures	Enclosure material is V-0	Pass
4.7.3.3	Materials for components and other parts outside fire enclosures	Output cable rated VW-1	Pass
4.7.3.4	Materials for components and other parts inside fire enclosures	All internal materials are rated V-2 or better or are mounted on a PWB rated V-1 or better PWBs are rated min. V-1. Internal wiring is UL Recognized, marked VW-1 or FT-1 and strapped by individual cable ties (where needed).	Pass
4.7.3.5	Materials for air filter assemblies	The equipment does not have any air filters.	N/A
4.7.3.6	Materials used in high-voltage components	No high-voltage components.	N/A

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		Pass
5.1	Touch current and protective conductor current		Pass
5.1.1	General		Pass
5.1.2	Equipment under test (EUT)	EUT has only one mains connection.	Pass
5.1.3	Test circuit	Using test circuit as in figure 5A.	Pass
5.1.4	Application of measuring instrument	Using measuring instrument as in annex D.1.	Pass

5.1.5	Test procedure	The touch current was measured from primary to output connector and primary to enclosure accessible parts wrapped by metal foil.	Pass
5.1.6	Test measurements		Pass
	Test voltage (V)	254.4Vac,60Hz	-
	Measured touch current (mA)	Enclosure with metal foil: Max.0.005mA Output terminal:Max.0.13mA	-
	Max. allowed touch current (mA)	0.25	-
	Measured protective conductor current (mA).....	--	-
	Max. allowed protective conductor current (mA).....	--	-
5.1.7	Equipment with touch current exceeding 3.5 mA...:		N/A
5.1.8	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		Pass
5.2.1	General		Pass
5.2.2	Test procedure		Pass

5.3	Abnormal operating and fault conditions		Pass
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	Pass
5.3.2	Motors	The equipment does not have any motors.	N/A
5.3.3	Transformers		Pass
5.3.4	Functional insulation	Functional insulation complies with the requirements (a), (b), or (c).	Pass

5.3.5	Electromechanical components	The equipment does not have any electromechanical components in the secondary.	N/A
5.3.6	Simulation of faults	No other components where failure could adversely affect SUPPLEMENTARY or REINFORCED INSULATION.	Pass
5.3.7	Unattended equipment	Equipment is not intended for unattended use.	N/A
5.3.8	Compliance criteria for abnormal operating and fault conditions	No fire, emission of molten metal or deformation was noted during the tests.	Pass

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		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		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		-

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
7.1	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N/A

7.2	Protection of equipment users from overvoltages on the cable distribution system		N/A
7.3	Insulation between primary circuits and cable distribution systems		N/A
7.3.1	General		N/A
7.3.2	Voltage surge test		N/A
7.3.3	Impulse test		N/A

A	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)		N/A
A.1.1	Samples		-
	Wall thickness (mm).....		-
A.1.2	Conditioning of samples; temperature (jāC).....		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)		N/A
A.2.1	Samples, material.....		-
	Wall thickness (mm).....		-
A.2.2	Conditioning of samples		N/A
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).....		-

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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
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		N/A
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.7	Locked-rotor overload test for d.c. motors in secondary circuits		N/A
B.7.1	Test procedure		N/A
B.7.2	Alternative test procedure; test time (h)		N/A
B.7.3	Electric strength test		N/A
B.8	Test for motors with capacitors		N/A
B.9	Test for three-phase motors		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)		Pass
	Position.....:	On PWB(PT1)	-
	Manufacturer	Fu yuan Electrical Factory Ltd	-
	Type	Switching type	-
	Rated values	Class A	-
	Method of protection	Protection by electronic drive circuit.	-
C.1	Overload test	(See appended table 5.3)	Pass
C.2	Insulation		Pass
	Protection from displacement of windings	One UL certified triple insulated wire was used in the equipment.	Pass

D	Annex D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS		Pass
D.1	Measuring instrument		Pass
D.2	Alternative measuring instrument		N/A

E	Annex E, TEMPERATURE RISE OF A WINDING		N/A
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F	Annex F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10)		Pass
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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
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J	Annex J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	N/A
	Metal used.....:	-

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	N/A

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

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	Ringling 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
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		Pass
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Q	Annex Q, BIBLIOGRAPHY		Pass
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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
:		-

U	Annex U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		Pass
:	Approved TIW	-

1.5.1	TABLE: list of critical components					Pass
Object/part No.	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
X-cap. (C1)	Xiamen Faratronic Co., Ltd.	MKP62	0.1uF, 250VAC,110Deg.C	FOWX2/8	UL,VDE	3-04
X-cap. (C1,alternate)	Carli Electronics Co., Ltd	MPX	0.1uF, 250VAC,100Deg.C	FOWX2/8	UL,VDE	3-04
X-cap. (C1,alternate)	Tenta Electric Industrial Co., Ltd.	MEX	0.1uF, 250VAC,100Deg.C	FOWX2/8	UL,VDE	3-04
Bridge Cap. (C9) (Y1 type) (Optional)	Success Electronic Co., Ltd	SE	2200PF, 250VAC,125Deg.C	FOWX2/8	UL,VDE	3-04
Bridge Cap. (C9) (Y1 type) (Optional,alternate)	Jya-nay Co Ltd.	JN	2200PF, 250VAC,125Deg.C	FOWX2/8	UL,VDE	3-04
Current Fuse (CF1)	Various	Various	250VAC, 3.0A	JDYX/7	UL	3-04
Photo-Coupler (IC2)	Bright Led	BPC-817	di. > 0.4mm	FPQU2/8	UL	3-04
Photo-Coupler (IC2) (Alternative)	Cosmo	817x	di. > 0.4mm,5000 Vac isolation	FPQU2/8	UL	3-04
Photo-Coupler (IC2) (Alternative)	Sharp	PC817	di. >0.4mm,5000 Vac isolation	FPQU2/8	UL	3-04
Enclosure	GE PLASTICS CHINA LTD	920	94V-0, 105Deg.C, min. 1.8mm thick,Overall :152mm by 59mm by 35mm.The bottom and top enclosure are fixed by ultra- sonic welding.	QMFZ2	UL	3-01
PWB	various	various	94V-0, Min.105Deg.C	ZPMV2	UL	3-05
Shrinkable tube	Various	Various	125Deg.C, 600V VW-1	YDPU2/8	UL	3-04
Transformer (PT1)	Fuyuan	FYXXXYYYYPT	Class A	--	--	3-04
Core of PT1	--	--	Overall:32.2mm by 21.9mm by 25.2mm.	--	--	3-04
Bobbin of PT1	Changchun Plastics	T375J	94V-0, 150Deg.C	QMFZ2/8	UL	3-04
Varnish	HANG CHEUNG PETROCHEMICAL LTD	8562/C	155Deg.C	OBOR2	UL	
Winding of PT1	Various	Various	Min. 130Deg.C	OBMW2	UL	3-04

Insulating Tape of PT1	FUQING YONGBIN ADHESIVE TAPE FACTORY	DEJZ3	130Deg.C	OANZ2	UL	3-04
Insulating Tape of PT1(Alternative)	Jingjiang Yahua	PZ	130Deg.C	OANZ2	UL	3-04
Triple insulated wire of PT1	Great Leoflon	TRW(B)	130Deg.C	OBJT2	UL	3-04
Ripple Cap. (C1)	Various	various	Min. 150uF , 400V, 105Deg.C	--	--	3-04
Heatsinks (three provided: Pri., Sec. and Transformer)	--	--	Aluminium, See dimensions in Enclosure. Partially wrapped by min. 2 layers of insulation tapes.	--	--	3-04
Output cord	various	various	SPT1 or SPT-2, 18AWG, Min. 85Deg.C	ZJCZ, ELBZ	UL	3-01
Appliance Inlet	Various	Various	250 Vac, 2.5 A	AXUT, AXUT2, RTRT2	UL	3-03
Power supply cord (optional)	various	various	Type SPT-2 , min. 18 AWG, 125V, 6A, min. 60 Deg.C, max 4.5 m long; One end with NEMA 1-15. Other end with appliance coupler.	ELBZ	UL	
Chock(L3)	--	--	See Enclosure for detail information	--	--	7-04
Bobbin(L3)	Changchun Plastics	T357J	94V-0, 150Deg.C	QMFZ2/8	UL	3-04
Winding(L3)	XIN LONG MAGNET WIRE CO LTD	UEW	130Deg.C	OBMW2	UL	3-04
Bleeder resistor(R15)	--	--	1Mohm,0.25W	--	--	3-04

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1.6.2		TABLE: electrical data (in normal conditions)					Pass
fuse #	I rated (A)	U (V)	P (W)	I (mA)	I fuse (mA)	condition/status	
FY5802 000							
CF1	-	90Vac / 50Hz	132.5	2380	2380	Maximum Normal load	
CF1	-	90Vac / 60Hz	130.1	2120	2120	Maximum Normal load	
CF1	2.5	100Vac /50Hz	130.1	1937	1937	Maximum Normal load	
CF1	2.5	100Vac / 60Hz	129.8	1890	1890	Maximum Normal load	
CF1	2.5	240Vac / 50Hz	127.2	931	931	Maximum Normal load	
CF1	2.5	240Vac / 60Hz	129.1	1048	1048	Maximum Normal load	
CF1	-	254Vac / 50Hz	129.8	890	890	Maximum Normal load	
CF1	-	254Vac / 60Hz	128.3	959	959	Maximum Normal load	
FY5800 300							
CF1	-	90Vac / 50Hz	19.9	357	357	Maximum Normal load	
CF1	-	90Vac / 60Hz	19.7	356	356	Maximum Normal load	
CF1	2.5	100Vac /50Hz	19.2	332	332	Maximum Normal load	
CF1	2.5	100Vac / 60Hz	19.1	352	352	Maximum Normal load	
CF1	2.5	240Vac / 50Hz	20.9	200	200	Maximum Normal load	
CF1	2.5	240Vac / 60Hz	20.1	191	191	Maximum Normal load	
CF1	-	254Vac / 50Hz	21.2	182	182	Maximum Normal load	
CF1	-	254Vac / 60Hz	20.0	181	181	Maximum Normal load	
FY4802 500							
CF1	-	90Vac / 50Hz	130.6	2240	2240	Maximum Normal load	
CF1	-	90Vac / 60Hz	129.0	2100	2100	Maximum Normal load	
CF1	2.5	100Vac /50Hz	129.7	1965	1965	Maximum Normal load	
CF1	2.5	100Vac / 60Hz	128.9	1883	1883	Maximum Normal load	
CF1	2.5	240Vac / 50Hz	127.4	941	941	Maximum Normal load	
CF1	2.5	240Vac / 60Hz	129.8	1048	1048	Maximum Normal load	

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CF1	-	254Vac / 50Hz	127.9	903	903	Maximum Normal load
CF1	-	254Vac / 60Hz	127.6	962	962	Maximum Normal load
FY2402 500						
CF1	-	90Vac / 50Hz	138.5	2460	2460	Maximum Normal load
CF1	-	90Vac / 60Hz	135.8	2180	2180	Maximum Normal load
CF1	2.5	100Vac /50Hz	136.2	2080	2080	Maximum Normal load
CF1	2.5	100Vac / 60Hz	135.6	1994	1994	Maximum Normal load
CF1	2.5	240Vac / 50Hz	134.1	968	968	Maximum Normal load
CF1	2.5	240Vac / 60Hz	135.6	1083	1083	Maximum Normal load
CF1	-	254Vac / 50Hz	134.6	936	936	Maximum Normal load
CF1	-	254Vac / 60Hz	133.7	1007	1007	Maximum Normal load
FY1267 500						
CF1	-	90Vac / 50Hz	105.2	1814	1814	Maximum Normal load
CF1	-	90Vac / 60Hz	103.6	1705	1705	Maximum Normal load
CF1	2.5	100Vac /50Hz	103.7	1553	1553	Maximum Normal load
CF1	2.5	100Vac / 60Hz	102.6	1529	1529	Maximum Normal load
CF1	2.5	240Vac / 50Hz	102.7	789	789	Maximum Normal load
CF1	2.5	240Vac / 60Hz	102.6	856	856	Maximum Normal load
CF1	-	254Vac / 50Hz	107.0	758	758	Maximum Normal load
CF1	-	254Vac / 60Hz	104.8	782	782	Maximum Normal load
FY0307 500						
CF1	-	90Vac / 50Hz	32.5	587	587	Maximum Normal load
CF1	-	90Vac / 60Hz	30.8	580	580	Maximum Normal load
CF1	2.5	100Vac /50Hz	34.2	544	544	Maximum Normal load
CF1	2.5	100Vac / 60Hz	31.1	524	524	Maximum Normal load
CF1	2.5	240Vac / 50Hz	36.3	323	323	Maximum Normal load
CF1	2.5	240Vac /	34.7	295	295	Maximum Normal load

		60Hz				
CF1	-	254Vac / 50Hz	37.4	293	293	Maximum Normal load
CF1	-	254Vac / 60Hz	35.2	291	291	Maximum Normal load
FY0300 300						
CF1	-	90Vac / 50Hz	2.1	51	51	Maximum Normal load
CF1	-	90Vac / 60Hz	2.1	49	49	Maximum Normal load
CF1	2.5	100Vac /50Hz	2.0	44	44	Maximum Normal load
CF1	2.5	100Vac / 60Hz	2.0	47	47	Maximum Normal load
CF1	2.5	240Vac / 50Hz	3.0	33	33	Maximum Normal load
CF1	2.5	240Vac / 60Hz	2.9	39	39	Maximum Normal load
CF1	-	254Vac / 50Hz	3.5	29	29	Maximum Normal load
CF1	-	254Vac / 60Hz	3.4	30	30	Maximum Normal load

supplementary information:

Maximum Normal Load was defined as follows: Output connected to rated resistive load and operated continuously.

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements					Pass
clearance cl and creepage distance dcr at/of:	Up (V)	U r.m.s. (V)	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Line - Neutral	340	240	1.5	8.9	2.5	8.9
Different polarity of fuse	340	240	1.5	3.7	2.5	3.7
Primary trace to secondary trace - under IC2	408	249	4.0	6.47	5.0	6.47
Primary trace to secondary trace - under PT1	544	266	4.4	8.91	6.4	8.91
Transformer PT1 (MUPSXXXXYYY) Triple insulated wire used	--	--	--	--	--	--
Transformer Heat sink to Secondary heat sink	544	266	4.4	7.8	6.4	7.8
Primary trace to secondary heat sink	340	240	4.0	6.43	5.0	6.43

supplementary information:

1. The CTI rating of PWB is material group IIIb (Cl. 2.10.4). 2. Separation Method between SELV and hazard circuit (Cl. 2.2.3) by double or reinforced insulation (Method 1) 3. Slot openings(10.6mm by 22.18mm) provide for maintain creepage was complied with Annex F, details see Enclosure, PWB layout.

2.10.5	TABLE: distance through insulation measurements				Pass
distance through insulation di at/of:		Up (V)	test voltage (V)	required di (mm)	di (mm)
Optp-coupler		340	3000	0.4	>0.4
supplementary information:					
Optical coupler refer to Table 1.5.1 (Critical Components) for details.					

4.5	TABLE: temperature rise measurements					Pass
	test voltage (V).....	90Va c/50H z	254.4Va c/60Hz	90V/50H z at	254.4Va c/60Hz	—
	t1 (°C).....	--	--	--	--	—
	t2 (°C).....	See below	See below	Tma is 25	Tma is 25	—
maximum temperature T of part/at:		T (jāC)				allowed Tmax (jāC)
FY0300300		--	--	--	--	--
Ambient		26	27.1	25.0	25.0	--
AC inlet		33.5	37.3	32.5	35.2	85
C1 body		34.5	38	33.5	35.9	100
L3 winding		34.8	31.8	33.8	29.7	130
PWB near D1		35.6	36.8	34.6	34.7	105
C2 body		37.5	39.6	36.5	37.5	105
Primary heatsink		38.8	40.7	37.8	38.6	105
Secondary heatsink		35.2	38.1	34.2	36.0	105
PT1 winding		36.3	39.1	35.3	37.0	90
PT1 core		36	38	35.0	35.9	90
C9 body		37.1	39.4	36.1	37.3	125
IC2 body		38.4	36.7	37.4	34.6	100
PWB near R3		39.1	35	38.1	32.9	105
Output wire		32.9	36.4	31.9	34.3	85
Enclosure above PT1(inside)		35.6	36.2	34.6	34.1	105
Enclosure above PT1(outside)		32.2	33.8	31.2	31.7	95
Enclosure under PT1 (outside)		32.4	33.8	31.4	31.7	95
Enclosure under PT1(inside)		36.4	34.9	35.4	32.8	105
FY0307500		--	--	--	--	--
Ambient		26	27.1	25.0	25.0	--
AC inlet		42.5	41.3	41.5	39.2	85
C1 body		60.2	57.5	59.2	55.4	100
L3 winding		80.5	70.1	79.5	68.0	130
PWB near D1		70	65	69.0	62.9	105
C2 body		56.3	57.8	55.3	55.7	105
Primary heatsink		55.7	61.9	54.7	59.8	105
Secondary heatsink		97.9	102.9	96.9	100.8	105
PT1 winding		83.7	87.6	82.7	85.5	90

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PT1 core	81.4	86.9	80.4	84.8	--	90
C9 body	64.1	68.3	63.1	66.2	--	125
IC2 body	59.6	63.6	58.6	61.5	--	100
PWB near R3	61.5	65.8	60.5	63.7	--	105
Output wire	72.8	78.2	71.8	76.1	--	85
Enclosure above PT1(inside)	53.8	54.7	52.8	52.6	--	105
Enclosure above PT1 (outside)	58.9	57	57.9	54.9	--	95
Enclosure under PT1 (outside)	62	64.8	61.0	62.7	--	95
Enclosure under PT1 (inside)	68.3	71.3	67.3	69.2	--	105
FY1267500	--	--	--	--	--	--
Ambient	26.6	27.1	25	25.0	--	--
AC inlet	57.2	45.3	55.6	43.2	--	85
C1 body	70.9	55.7	69.3	53.6	--	100
L3 winding	86.9	64.8	85.3	62.7	--	130
PWB near D1	59.7	48.9	58.1	46.8	--	105
C2 body	87.7	67.4	86.1	65.3	--	105
Primary heatsink	75.9	65.6	74.3	63.5	--	105
Secondary heatsink	91.3	78.2	89.7	76.1	--	105
PT1 winding	89.2	85.2	87.6	83.1	--	90
PT1 core	88	83.5	86.4	81.4	--	90
C9 body	77.7	68.2	76.1	66.1	--	125
IC2 body	75.8	66.4	74.2	64.3	--	100
PWB near R3	79.2	69.5	77.6	67.4	--	105
Output wire	69	60.6	67.4	58.5	--	85
Enclosure above PT1 (inside)	80.2	70.9	78.6	68.8	--	105
Enclosure above PT1 (outside)	67.4	59.4	65.8	57.3	--	95
Enclosure under PT1 (outside)	82.3	61.7	80.7	59.6	--	95
Enclosure under PT1 (inside)	72	68.1	70.4	66.0	--	105
FY2405000	--	--	--	--	--	--
Ambient	26	27.1	25.0	25.0	--	--
AC inlet	68.7	44.4	67.7	42.3	--	85
C1 body	85.2	59.8	84.2	57.7	--	100
L3 winding	87.2	71.5	86.2	69.4	--	130
PWB near D1	91.6	67.9	90.6	65.8	--	105
C2 body	87.6	62.7	86.6	60.6	--	105
Primary heatsink	85.7	65.4	84.7	63.3	--	105
Secondary heatsink	87.4	98.6	86.4	96.5	--	105
PT1 winding	80.6	89	79.6	86.9	--	90
PT1 core	78.4	86.5	77.4	84.4	--	90
C9 body	75.9	73.1	74.9	71.0	--	125
IC2 body	77.8	68	76.8	65.9	--	100
PWB near R3	85	69.9	84.0	67.8	--	105
Output wire	66.1	81.5	65.1	79.4	--	85
Enclosure above PT1 (inside)	73.6	76.1	72.6	74.0	--	105

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Enclosure above PT1 (outside)	65.9	68	64.9	65.9	--	95
Enclosure under PT1 (outside)	72.6	74.7	71.6	72.6	--	95
Enclosure under PT1 (inside)	76.1	76.7	75.1	74.6	--	105
FY4802500	--	--	--	--	--	--
Ambient	26	27.1	25.0	25.0	--	--
AC inlet	52.8	44.3	51.8	42.2	--	85
C1 body	64.6	55.5	63.6	53.4	--	100
L3 winding	77.9	65.5	76.9	63.4	--	130
PWB near D1	85.6	66.2	84.6	64.1	--	105
C2 body	87.1	69.3	86.1	67.2		105
Primary heatsink	75	65.5	74.0	63.4	--	105
Secondary heatsink	70.9	68.4	69.9	66.3	--	105
PT1 winding	84.8	86.5	85.6	84.4	--	90
PT1 core	82.2	85	81.2	82.9	--	90
C9 body	72.5	69	71.5	66.9	--	125
IC2 body	69.7	65.9	68.7	63.8	--	100
PWB near R3	77.3	69.8	76.3	67.7	--	105
Output wire	50.5	46.8	49.5	44.7	--	85
Enclosure above PT1 (inside)	56.4	57.6	55.4	55.5	--	105
Enclosure above PT1 (outside)	54.8	55.7	53.8	53.6	--	95
Enclosure under PT1 (outside)	67.7	67.1	66.7	65.0	--	95
Enclosure under PT1 (inside)	74	75.1	73.0	73.0	--	105
FY5800300	--	--	--	--	--	--
Ambient	26	27.1	25.0	25.0	--	
AC inlet	29.8	31.9	28.8	29.8	--	85
C1 body	33.5	35.1	32.5	33.0	--	100
L3 winding	37.2	37.9	36.2	35.8	--	130
PWB near D1	31.8	33.9	30.8	31.8	--	105
C2 body	39	39.3	38.0	37.2	--	105
Primary heatsink	38	41.2	37.0	39.1	--	105
Secondary heatsink	35.5	37.7	34.5	35.6	--	105
PT1 winding	44	47.5	43.0	45.4	--	90
PT1 core	42.5	46.1	41.5	44.0	--	90
C9 body	40.9	43.5	39.9	41.4	--	125
IC2 body	39.2	41.7	38.2	39.6	--	100
PWB near R3	40.3	42.7	39.3	40.6	--	105
Output wire	39.6	41.6	38.6	39.5	--	85
Enclosure above PT1 (inside)	38.1	39.9	37.1	37.8	--	105
Enclosure above PT1 (outside)	37.2	38.4	36.2	36.3	--	95
Enclosure under PT1 (outside)	35	37.5	34.0	35.4	--	95
Enclosure under PT1 (inside)	38.7	41.9	37.7	39.8	--	105

FY5802000	--	--	--	--	--	--
Ambient	26	27.1	25.0	25.0	--	--
AC inlet	66.5	56.1	65.5	54.0	--	85
C1 body	81.1	44	80.1	41.9	--	100
L3 winding	56.2	54.4	55.2	52.3	--	130
PWB near D1	86.9	64.6	85.9	62.5	--	105
C2 body	86.5	50.4	85.5	48.3	--	105
Primary heatsink	68.6	66	67.6	63.9	--	105
Secondary heatsink	86.6	71.2	85.6	69.1	--	105
PT1 winding	82.6	85.1	81.6	83.0	--	90
PT1 core	73.7	78.3	72.7	76.2	--	90
C9 body	72.9	87.5	71.9	84.5	--	125
IC2 body	80.4	71.3	79.4	69.2	--	100
PWB near R3	57.6	64.8	56.6	62.7	--	105
Output wire	64.9	66.3	63.9	64.2	--	85
Enclosure above PT1 (inside)	67.7	72.2	66.7	70.1	--	105
Enclosure above PT1 (outside)	61.8	64.5	60.8	62.4	--	95
Enclosure under PT1 (outside)	71.7	73.3	70.7	71.2	--	95
Enclosure under PT1 (inside)	72.2	78.5	71.2	76.4	--	105
temperature T of winding:		R ₁ (Ω)	R ₂ (Ω)	T (jãC)	allowed Tmax (jãC)	insulation class
--	--	--	--	--	--	--

supplementary information:

The temperatures were measured under worst case normal mode defined in 1.2.2.1 and as described in 1.6.1 at voltages as described in 1.6.5.

With a specified ambient temperature of 25 Deg.C, the max. temperature rise is calculated as follows:

Winding components:

- class A 100 Deg.C(PT1)

Components with:

- max. absolute temp. of 130 Deg.C (Line choke)

- max. absolute temp. of 105 Deg.C (Electrolyte capacitor)

- max. absolute temp. of 105 Deg.C (PWB)

- when no class of insulation is given, min. insulation 105 Deg.C assumed.

User accessible area:

- material is plastic 95Deg.C

4.5.2	TABLE: ball pressure test of thermoplastics			Pass
	allowed impression diameter (mm)	:	<=2	—
part		test temperature (°C)	impression diameter (mm)	
PT1 Bobbin(T1,Phenolic, T357J,Changchun Plastic Co.,Ltd, 0.9mm)		125	0.7	
L3 Bobbin(T1,Phenolic, T357,Changchun Plastic Co.,Ltd,0.9mm)		125	0.3	

supplementary information:
--

4.7	TABLE: resistance to fire			Pass
part	manufacturer of material	type of material	thickness(mm)	flammability class
--	--	--	--	--

supplementary information:
See 1.5.1 for detail information

5.2	TABLE: electric strength tests, impulse tests and voltage surge tests		Pass
test voltage applied between:		test voltage (V) a.c./d.c.	breakdown Yes / No
Primary to secondary circuits		AC 3000	No
Primary to enclosure with metal foil		AC 3000	No
Transformer Primary to Transformer Secondary		AC 3000	No
Transformer core to Transformer Secondary		AC 3000	No
One layer of insulation tape(Jingjiang Yahua,PZ)		AC 3000	No

supplementary information:
--

5.3	TABLE: fault condition tests			Pass
	ambient temperature (°C)	:	25.4 or specified	—
	model/type of power supply	:	See below	—
	manufacturer of power supply	:	Fuyuan Electronic	—
	rated markings of power supply	:	See power reference page	—

component No.	fault	test voltage (V)	test time	fuse No.	fuse current (A)	result
Output(FY5 802000)	Short Circuit	240Vac/50Hz	1h	CF1	0.09	Unit shut down immediately CT(PT1 winding 42.6 Deg.C), NC,NT,NB Ambient 24.6 Deg.C
Output(FY0 307500)	Short Circuit	240Vac/50Hz	1h	CF1	0.063	Unit shut down immediately CT(PT1 winding 28.5 Deg.C), NC,NT,NB Ambient 24.7 Deg.C
Output(FY1 267500)	Short Circuit	240Vac/50Hz	1h	CF1	0.185	Unit shut down immediately CT(PT1 winding 51.0 Deg.C), NC,NT,NB Ambient 25.0 Deg.C
Output(FY4 802500)	Short Circuit	240Vac/50Hz		CF1		Unit shut down immediately CT(PT1 winding 51.2

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			1h		0.124	Deg.C), NC,NT,NB Ambient 24.1 Deg.C
Output(FY0 300300)	Short Circuit	240Vac/50H z	1h	CF1	0.063	Unit shut down immediately CT(PT1 winding 30.1 Deg.C), NC,NT,NB Ambient 24.7 Deg.C
Output(FY5 800300)	Short Circuit	240Vac/50H z	1h	CF1	0.09	Unit shut down immediately CT(PT1 winding 42.6 Deg.C), NC,NT,NB Ambient 24.0 Deg.C
Output(FY2 405000)	Short Circuit	240Vac/50H z	1h	CF1	0.130	Unit shut down immediately CT(PT1 winding 47.0 Deg.C), NC,NT,NB Ambient 24.6 Deg.C
Output(FY5 802000)	Overload	240Vac/50H z	4h	CF1	0.801	Unit normally operated at 2.1A and Unit shut down at 2.2A NC,NT,NB PT1 winding Max. 112.0 Deg.C Ambient 25.4 Deg.C
Output(FY0 307500)	Overload	240Vac/50H z	4h	CF1	0.295	Unit normally operated at 8.0A and Unit shut down at 9.5A NC,NT,NB PT1 winding 134.5 Deg.C Ambient 26.0 Deg.C
Output(FY1 267500)	Overload	240Vac/50H z	4h	CF1	1.231	Unit normally operated at 10.0A and Unit shut down at 11.9A NC,NT,NB PT1 winding Max. 107.9 Deg.C Ambient 26.0 Deg.C
Output(FY4 802500)	Overload	240Vac/50H z	4h	CF1	0.910	Unit normally operated at 2.6A and Unit shut down at 2.7A NC,NT,NB PT1 winding Max. 97.2 Deg.C Ambient 25.4 Deg.C
Output(FY0 300300)	Overload	240Vac/50H z	4h	CF1	0.295	Unit normally operated at 8.0A and Unit shut down at 9.5A NC,NT,NB PT1 winding Max.134.5 Deg.C Ambient 26.0 Deg.C
Output(FY5 800300)	Overload	240Vac/50H z	4h	CF1	0.801	Unit normally operated at 2.1A and Unit shut down at 2.2A NC,NT,NB PT1 winding Max. 112.0 Deg.C Ambient 25.4 Deg.C
Output(FY2 405000)	Overload	240Vac/50H z	4h	CF1	0.866	Unit normally operated at 5.0A and Unit shut down at 5.1A NC,NT,NB PT1 winding Max. 101.0 Deg.C

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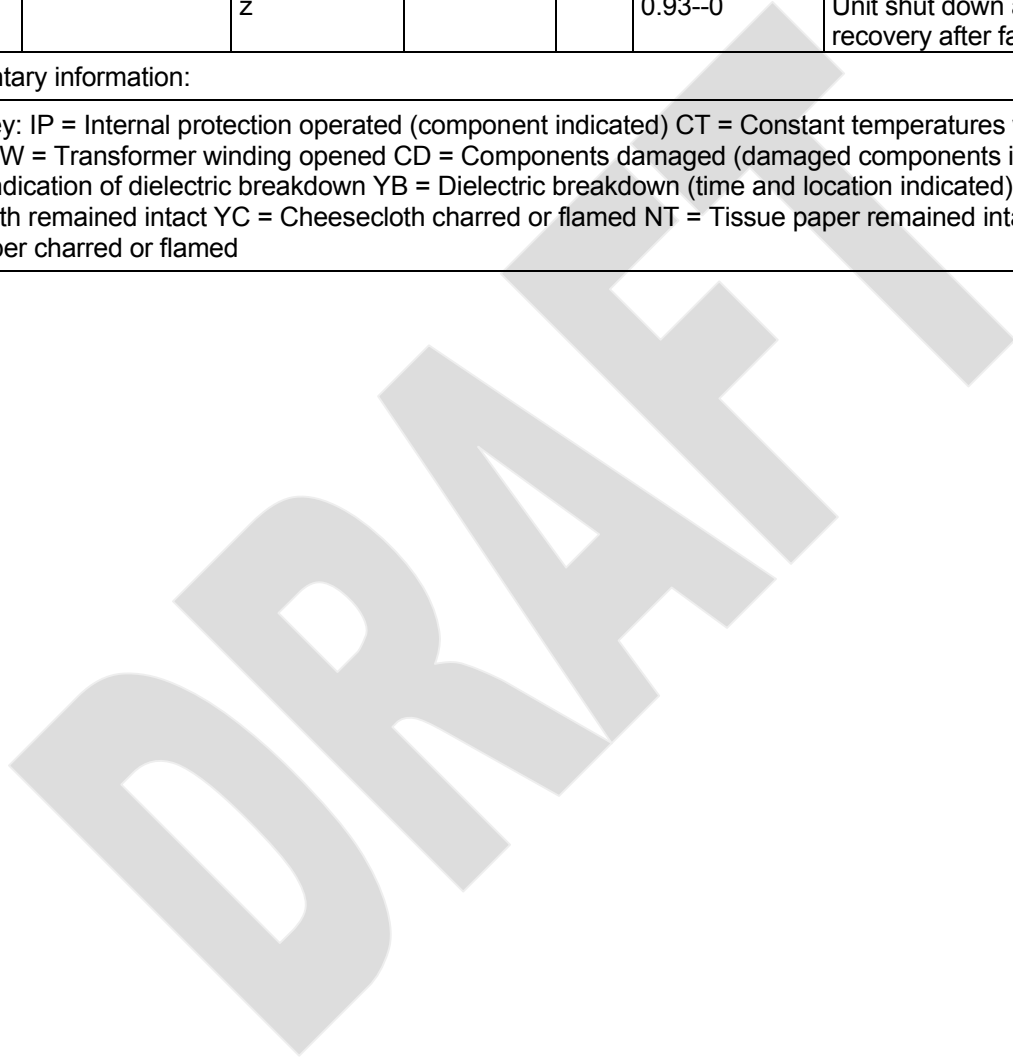
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						Ambient 25.4 Deg.C
PT1 Pin9 to Pin10(FY5 802000)	Overload	240Vac/50Hz	11h	CF1	0.901	Unit normally operated at 2.5A and Unit shut down at 2.8A NC,NT,NB PT1 winding Max. 138.8 Deg.C Ambient 25.3 Deg.C
PT1 Pin9 to Pin10(FY0 307500)	Overload	240Vac/50Hz	9h	CF1	0.278	Unit normally operated at 9.5A and Unit shut down at 10A NC,NT,NB PT1 winding Max.107.8 Deg.C Ambient 27.0 Deg.C
PT1 Pin9 to Pin10(FY1 267500)	Overload	240Vac/50Hz	9h	CF1	1.203	Unit normally operated at 9.5A and Unit shut down at 10A NC,NT,NB PT1 winding Max.102.4 Deg.C Ambient 26.6 Deg.C
PT1 Pin9 to Pin10(FY4 802500)	Overload	240Vac/50Hz	10h	CF1	1.137	Unit normally operated at 3.2A and Unit shut down at 3.6A NC,NT,NB PT1 winding Max.115.2 Deg.C Ambient 25.3 Deg.C
PT1 Pin9 to Pin10(FY2 405000)	Overload	240Vac/50Hz	9h	CF1	0.863	Unit normally operated at 5.7A and Unit shut down at 6A NC,NT,NB PT1 winding Max.102.1 Deg.C Ambient 25.3 Deg.C
D1	Short Circuit	240Vac/50Hz	0	CF1	0.93--0	CD(CF1), NC,NT,NB
D2	Short Circuit	240Vac/50Hz	0	CF1	0.93--0	CD(CF1), NC,NT,NB
C2	Short Circuit	240Vac/50Hz	0	CF1	0.93--0	CD(CF1), NC,NT,NB
T1 G-S	Short Circuit	240Vac/50Hz	0	CF1	0.93--0	CD(CF1), NC,NT,NB
T1 G-D	Short Circuit	240Vac/50Hz	10min	CF1	0.92--0	IP(T1), NC,NT,NB Unit shut down and recovery after fault remove
T1 D-S	Short Circuit	240Vac/50Hz	0	CF1	0.93--0	CD(CF1), NC,NT,NB
PT1 Pin9 to Pin10	Short Circuit	240Vac/50Hz	0	CF1	0.93--0	CD(R6,T1,CF1), NC,NT,NB
IC2 Primary	Open Circuit	240Vac/50Hz	10min	CF1	0.92--0	IP(IC1),NC,NT,NB Unit shut down and recovery after fault remove
IC2 Secondary	Short Circuit	240Vac/50Hz	0	CF1	0.93--0	CD(R6,T1,CF1), NC,NT,NB
IC1 pin4 to	Short Circuit	240Vac/50Hz	0	CF1		CD(T1,CF1),NC,NT,NB

pin8		z			0.93--0	
R6	Short Circuit	240Vac/50H z	0	CF1	0.93--0	CD(T1,CF1),NC,NT,NB
C5	Short Circuit	240Vac/50H z	10min	CF1	0.92--0	IP(IC1),NC,NT,NB Unit shut down and recovery after fault remove
IC1 pin2 to pin8	Short Circuit	240Vac/50H z	10min	CF1	0.93--0	IP(IC1),NC,NT,NB Unit shut down and recovery after fault remove

supplementary information:

Results Key: IP = Internal protection operated (component indicated) CT = Constant temperatures were obtained TW = Transformer winding opened CD = Components damaged (damaged components indicated) NB = No indication of dielectric breakdown YB = Dielectric breakdown (time and location indicated) NC = Cheesecloth remained intact YC = Cheesecloth charred or flamed NT = Tissue paper remained intact YT = Tissue paper charred or flamed



Enclosure

National Differences

(Total 9 Pages including this Cover Page)

USA / Canada

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USA / Canada - Differences to IEC 60950-1:2001, First Edition			
1.1	Equipment able to be installed in accordance with the National Electrical Code ANSI/NFPA 70 and the Canadian Electrical Code, Part1, and when applicable, the National Electrical Safety Code, IEEE C2.		Pass
1.1.1	Equipment able to be installed in accordance with ANSI/NFPA 75 and NEC Art. 645 unless intended for use outside of computer room and provided with such instructions.		Pass
1.1.2	Equipment in wire-line communication facilities serving high-voltage electric power stations operating at greater than 1kV are excluded.		N/A
1.1.2	Special requirements apply to equipment intended for use outdoors.		N/A
1.4.14	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20 A.		Pass
1.5.1	All IEC standards for components identified in Annex P.1 replaced by the relevant requirements of CSA and UL component standards in Annex P.1.		Pass
1.5.1	All IEC standards for components identified in Annex P.2 alternatively satisfied by the relevant requirements of CSA and UL component standards in Annex P.2.		Pass
1.5.5	Interconnecting cables acceptable for the application regarding voltage, current, temperature, flammability, mechanical serviceability and the like.		Pass
1.5.5	For other than limited power and TNV circuits, the type of output circuit identified for output connector.		N/A
1.5.5	External cable assemblies that exceed 3.05 m in length to be types specified in the NEC and CEC.		N/A
1.5.5	Detachable external interconnecting cables 3.05 m or less in length and provided with equipment marked to identify the responsible organization and the designation for the cable.		N/A
1.5.5	Building wiring and cable for use in ducts, plenums and other air handling space subject to special requirements and excluded from scope.		N/A
1.5.5	Telephone line and extension cords and the like comply with UL 1863 and CSA C22.2 No. 233.		N/A
1.6.1.2	Equipment intended for connection to a d.c. power (mains) distribution system is subject to special circuit classification requirements (e.g., TNV-2)		N/A
1.6.1.2	Earthing of d.c. powered equipment provided.		N/A
1.7	Lamp replacement information indicated on		N/A

	lampholder in operator access area.		
1.7.1	Special marking format for equipment intended for use on a supply system with an earthed neutral and more than one phase conductor.		N/A
1.7.1	Equipment voltage rating not higher than rating of the plug except under special conditions.		N/A
1.7.6	Special fuse replacement marking for operator accessible fuses.	Not operator accessible	N/A
1.7.7	Identification of terminal connection of the equipment earthing conductor.		N/A
1.7.7	Connectors and field wiring terminals for external Class 2 or Class 3 circuits provided with marking indicating minimum Class of wiring to be used.	Units not for field wiring	N/A
1.7.7	Marking located adjacent to terminals and visible during wiring.		N/A
2.1.1	Screw shell of Edison-base lampholder tied to the neutral conductor.		N/A
2.1.1.1	Bare TNV conductive parts in the interior of equipment normally protected against contact by a cover intended for occasional removal are exempt provided instructions include directions for disconnection of TNV prior to removal of the cover.		N/A
2.3.1.b	Other telecommunication signaling systems (e.g., message waiting) than described in 2.3.1(b) are subject to M.4.		N/A
2.3.1.b	For TNV-2 and TNV-3 circuits with other than ringing signals and with voltages exceeding 42.4 Vp or 60 V d.c., the maximum current limit through a 2000 Ohm or greater resistor with loads disconnected is 7.1 mA peak or 30 mA d.c. under normal conditions.		N/A
2.3.1.b	Limits for measurements across 5000 ohm resistor in the event of a single fault are replaced after 200 ms with the limits of M.3.1.4.		N/A
2.3.2	Enamel coating on signal transformer winding wire allowed as an alternative to Basic insulation in specific telecommunication applications when subjected to special construction requirements and routine testing.		N/A
2.3.2	In the event of a single fault, the limits of 2.2.3 apply to SELV circuits and accessible conductive parts.		N/A
2.5	Overcurrent protection device required for Class 2 and Class 3 limiting in accordance with the NEC, or for a Limited Power Source, not interchangeable with devices of higher ratings if operator replaceable.		N/A

2.6	Equipment having receptacles for output a.c. power connectors generated from an internal separately derived source have the earthed (grounded) circuit conductor suitably bonded to earth.		N/A
2.6.3.3	For Pluggable Equipment Type A, if neither a) or b) are applicable, the current rating of the circuit is taken as 20 A.		N/A
2.6.3.4	Capacity of connection between earthing terminal and parts required to be earthed subject to special conditions based on the current rating of the circuit.		N/A
2.6.3.4	Protective bonding conductors and their terminals of non-standard constructions (e.g. PWB traces) evaluated to limited short-circuit test of CSA C22.2 No.0.4.		N/A
2.6.4.1	Field wiring terminals for earthing conductors suitable for wire sizes (gauge) used in US and Canada.		N/A
2.7.1	Data for selection of special external branch circuit overcurrent devices marked on the equipment.		N/A
2.7.1	Standard supply outlets protected by overcurrent device in accordance with the NEC, and CEC, Part 1.		N/A
2.7.1	Overcurrent protection for individual transformers that distribute power to other units over branch circuit wiring.		N/A
2.7.1	Additional requirements for overcurrent protection apply to equipment provided with panelboards.		N/A
2.7.1	Non-motor-operated equipment requiring special overcurrent protective device marked with device rating.		N/A
2.10.5.4	Multi-layer winding wire subject to UL component wire requirements in addition to 2.10.5.4 and Annex U.		Pass
3.1.1	Permissible combinations of internal wiring/external cable sizes for overcurrent and short circuit protection.		Pass
3.1.1	All interconnecting cables protected against overcurrent and short circuit.		Pass
3.2	Wiring methods permit connection of equipment to primary power supply in accordance with the NEC and CEC, Part 1.		Pass
3.2.1	Permitted use for flexible cords and plugs.		Pass
3.2.1	Flexible cords provided with attachment plug rated 125% of equipment current rating.		Pass
3.2.1	Any Class II equipment provided with 15 or 20 A standard supply outlets, Edison-base lampholders or single pole disconnect device provided with a		N/A

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	polarized type attachment plug.		
3.2.1.2	Equipment intended for connection to DC mains supply power systems complies with special wiring requirements (e.g., no permanent connection to supply by flexible cord).		N/A
3.2.1.2	Equipment with one pole of the DC mains supply connected to both the equipment mains input terminal and the main protective earthing terminal provided with special instructions and construction provisions for earthing		N/A
3.2.1.2	Equipment with means for connecting supply to earthing electrode conductor has no switches or protective devices between supply connection and earthing electrode connection.		N/A
3.2.1.2	Special markings and instructions for equipment with provisions to connect earthed conductor of a DC supply circuit to earthing conductor at the equipment.		N/A
3.2.1.2	Special markings and instructions for equipment with earthed conductor of a DC supply circuit connected to the earthing conductor at the equipment.		N/A
3.2.1.2	Terminals and leads provided for permanent connection of DC powered equipment to supply marked to indicate polarity if reverse polarity may result in a hazard.		N/A
3.2.3	Permanently connected equipment has provision for connecting and securing a field wiring system (i.e. conduit, or leads etc.) per the NEC and CEC, Part 1.		N/A
3.2.3	Permanently connected equipment may have terminals or leads not smaller than No. 18 AWG (0.82 mm ²) and not less than 152 mm in length for connection of field installed wiring.		N/A
3.2.3	If supply wires exceed 60 ºC, marking indicates use of 75 ºC or 90 ºC wiring for supply connection as appropriate.		N/A
3.2.3	Equipment compatible with suitable trade sizes of conduits and cables.		N/A
3.2.5	Length of power supply cord limited to between 1.5 and 4.5 m unless shorter length used when intended for a special installation.		Pass
3.2.5	Conductors in power supply cords sized according to NEC and CEC, Part I.		Pass
3.2.5	Power supply cords and cord sets incorporate flexible cords suitable for the particular application.		Pass
3.2.6	Strain relief provided for non-detachable interconnecting cables not supplied by a limited	30N applied	Pass

	power source.		
3.2.9	Adequate wire bending space and volume of field wiring compartment required to properly make the field connections.		N/A
3.2.9	Equipment intended solely for installation in Restricted Access Locations using low voltage d.c. systems may not need provision for connecting and securing a field wiring system. A method of securing wiring or instructions provided to ensure the wiring is protected from abuse.		N/A
3.3	Field wiring terminals provided for interconnection of units for other than LPS or Class 2 circuits also comply with 3.3.		N/A
3.3	Interconnection of units by LPS or Class 2 conductors may have field wiring connectors other than those specified in 3.3 if wiring is reliably separated.		N/A
3.3.1	Terminals for the connection of neutral conductor identified by a distinctive white marking or other equally effective means.		N/A
3.3.3	Wire binding screw terminal permitted for connection of No. 10 AWG (5.3 mm ²) or smaller conductor if provided with upturned lugs, cupped washer or equivalent retention.		N/A
3.3.4	Terminals accept wire sizes (gauge) used in the U.S. and Canada.		N/A
3.3.4	Terminals accept current-carrying conductors rated 125% of the equipment current rating.		N/A
3.3.6	Field wiring terminals marked to indicate the material(s) of the conductor appropriate for the terminals used.		N/A
3.3.6	Connection of an aluminum conductor not permitted to terminal for equipment earthing conductor.		N/A
3.3.6	Field wiring connections made through the use of suitable pressure connectors (including set screw type), solder lugs or splices to flexible leads.		N/A
3.4.2	Separate motor control device(s) required for cord-connected equipment rated more than 12 A, or with motor rated more than 1/3 hp or more than 120 V.		N/A
3.4.8	Vertically mounted disconnect devices oriented so up position of handle is "on".		N/A
3.4.11	For computer-room applications, equipment with battery systems capable of supplying 750 VA for 5 min require battery disconnect means.		N/A
4.2.8.1	Special opening restrictions for enclosures around CRTs with face dimension of 160 mm or more.		N/A

4.2.9	Compartment housing high-pressure lamp marked to indicate risk of explosion.		N/A
4.3.2	Loading test for equipment with handle(s) used to support more than 9 kg tested at four times the weight of the unit.		N/A
4.3.6	In addition to the IEC requirements, Direct Plug-in Equipment complies with UL 1310 or CSA 223 mechanical assembly requirements.		N/A
4.3.12	The maximum quantity of flammable liquid stored in equipment complies with ANSI/NFPA 30(Table NAE.6).		N/A
4.3.12	Equipment using replenishable liquids marked to indicate type of liquid to be used.		N/A
4.3.13.2	Equipment that produces x-radiation and does not comply with 4.3.12 under all conditions of servicing marked to indicate the presence of radiation where readily visible.		N/A
4.3.13.5	Requirements contained in the applicable national codes and regulations apply to lasers (21 CFR 1040 and REDR C1370).		N/A
4.7	Automated information storage equipment intended to contain more than 0.76 m3 of combustible media requires provision for automatic sprinklers or a gaseous agent extinguishing system.		N/A
4.7.3.1	Equipment for use in environmental air space other than ducts or plenums provided with metal enclosure or with non-metallic enclosure having adequate fire-resistance and low smoke producing characteristics. Low smoke-producing characteristics evaluated according to UL 2043. Equipment for installation in space used for environmental air as described in Sec. 300-22(c) of the NEC provided with instructions indicating suitability for installation in such locations.		N/A
4.7.3.1	Flame spread rating for external surface of combustible material with exposed area greater than 0.93 m2 or a single dimension greater than 1.8 m; 50 or less for computer room applications or 200 or less for other applications.		N/A
4.7.3.4	Wire marked "VW-1" or "FT-1" considered equivalent.		Pass
5.1.8.2	Special earthing provisions and instructions for equipment with high touch current due to telecommunication network connections.		N/A
5.1.8.3	Touch current due to ringing voltage for equipment containing telecommunication network leads.		N/A
5.3.6	Overloading of SELV connectors and printed wiring board receptacles accessible to the operator.		Pass

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5.3.6	Tests interrupted by opening of a component repeated two additional times.		N/A
5.3.8.1	Test interrupted by opening of wire or trace subject to certain conditions.		N/A
6	Specialized instructions provided for telephones that may be connected to a telecommunications network.		N/A
6	Marking identifying function of telecommunication type connectors not used for connection to a telecommunication network.		N/A
6.2.1	Special requirements for enameled wiring used as electrical separation provided between parts connected to telecommunication network and telecommunication circuitry intentionally isolated from network.		N/A
6.2.1	Digital line termination equipment (e.g., NCTE) subject to separation requirements.		N/A
6.3	Equipment remotely powered over telecommunication wiring systems provided with specialized markings adjacent to the connection.		N/A
6.3	Overcurrent protection incorporated into equipment to provide power over telecommunication wiring system not interchangeable with devices of higher ratings if operator replaceable.		N/A
6.4	Additional requirements for equipment intended for connection to a telecommunication network using cable subject to overvoltage from power line failures (Fig. 6C).		N/A
6.4	Where 26 AWG line cord required by Fig. 6C, either the cord is provided with the equipment or described in the safety instructions.		N/A
6.5	Acoustic pressure from an ear piece less than 136 dBA for short duration disturbances, and less than 125 dBA for handsets, 118 dBA for headsets, and 121 dBA for insert earphones, for long duration disturbances.		N/A
7	Equipment associated with the cable distribution system may need to be subjected to applicable parts of Chapter 8 of the NEC.		N/A
H	Ionizing radiation measurements made under single fault conditions in accordance with the requirements of the Code of Federal Regulations 21 CFR 1020 and the Canadian Radiation Emitting Devices Act, REDR C1370.		N/A
M.2	Continuous ringing signals evaluated to Method A subjected to special accessibility considerations.		N/A
M.4	Special requirements for message waiting and similar telecommunications signals.		N/A

NAC	Equipment intended for use with a generic secondary protector marked with suitable instructions.		N/A
NAC	Equipment intended for use with a specific primary or secondary protector marked with suitable instructions.		N/A

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Enclosure**Photographs**

Supplement Id	Description
3-01	Top view
3-02	Bottom view
3-03	Internal view 1
3-04	Internal view 2
3-05	Internal view 3

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Miscellaneous ID 7-01

Http:WWW.DGFUYUAN.CN		東莞市石排福源電子廠			Tel: 076986595029 Fax: 86595019		
UL CUL GS CE 认证 120W以下开关电源系列清单							
MODEL	INPUT	OUTPUT			元件表引		
	VAC	W	V	mA	SBC.WINDING	DIODE D8 D9	E.CAP.C15 C16
FY0300300	100~240	0.9	3	300	2X0.9MM 3T	20A 45V	1000uF 10V
FY0300400	100~240	1.2	3	400			
FY0300500	100~240	1.5	3	500			
FY0301000	100~240	3	3	1000			
FY0301500	100~240	4.5	3	1500			
FY0302000	100~240	6	3	2000			
FY0303000	100~240	9	3	3000			
FY0304000	100~240	12	3	4000			
FY0305000	100~240	15	3	5000			
FY0306000	100~240	18	3	6000			
FY0307000	100~240	21	3	7000			
FY0307500	100~240	22.5	3	7500			
FY0420300	100~240	1.26	4.2	300	2X0.9MM 3T	20A 45V	1000uF 10V
FY0420400	100~240	1.68	4.2	400			
FY0420500	100~240	2.1	4.2	500			
FY0420600	100~240	2.52	4.2	600			
FY0420700	100~240	2.94	4.2	700			
FY0420800	100~240	3.36	4.2	800			
FY0420900	100~240	3.78	4.2	900			
FY0421000	100~240	4.2	4.2	1000			
FY0421500	100~240	6.3	4.2	1500			
FY0422000	100~240	8.4	4.2	2000			
FY0423000	100~240	12.6	4.2	3000			
FY0423000	100~240	12.6	4.2	3000			
FY0423000	100~240	12.6	4.2	3000			
FY0423000	100~240	12.6	4.2	3000			
FY0423000	100~240	12.6	4.2	3000			
FY0423000	100~240	12.6	4.2	3000			
FY0424000	100~240	16.8	4.2	4000			
FY0425000	100~240	21	4.2	5000			
FY0426000	100~240	25.2	4.2	6000			
FY0427000	100~240	29.4	4.2	7000			
FY0427500	100~240	31.5	4.2	7500			
FY0500300	100~240	1.5	5	300	2X0.9MM 3T	20A 45V	1000uF 10V
FY0500400	100~240	2	5	400			
FY0500500	100~240	2.5	5	500			
FY0500600	100~240	3	5	600			
FY0500700	100~240	3.5	5	700			
FY0500800	100~240	4	5	800			
FY0500900	100~240	4.5	5	900			
FY0501000	100~240	5	5	1000			
FY0501500	100~240	7.5	5	1500			

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FY0506000	100~240	30	5	6000				
FY0507000	100~240	35	5	7000				
FY0507500	100~240	37.5	5	7500				
FY0600300	100~240	1.8	6	300	2X0.9MM 3T	20A 45V	1000uF 10V	
FY0600400	100~240	2.4	6	400				
FY0600500	100~240	3	6	500				
FY0600600	100~240	3.6	6	600				
FY0600700	100~240	4.2	6	700				
FY0600800	100~240	4.8	6	800				
FY0600900	100~240	5.4	6	900				
FY0601000	100~240	6	6	1000				
FY0601500	100~240	9	6	1500				
FY0602000	100~240	12	6	2000				
FY0603000	100~240	18	6	3000				
FY0604000	100~240	24	6	4000				
FY0605000	100~240	30	6	5000				
FY0606000	100~240	36	6	6000				
FY0607000	100~240	42	6	7000				
FY0607500	100~240	45	6	7500				
FY0750300	100~240	2.25	7.5	300	2X0.9MM 3T	20A 45V	1000uF 10V	
FY0750400	100~240	3	7.5	400				
FY0750500	100~240	3.75	7.5	500				
FY0750600	100~240	4.5	7.5	600				
FY0750700	100~240	5.25	7.5	700				
FY0750800	100~240	6	7.5	800				
FY0750900	100~240	6.75	7.5	900				
FY0751000	100~240	7.5	7.5	1000				
FY0751500	100~240	11.25	7.5	1500				
FY0752000	100~240	15	7.5	2000				
FY0753000	100~240	22.5	7.5	3000				
FY0754000	100~240	30	7.5	4000				
FY0755000	100~240	37.5	7.5	5000				
FY0756000	100~240	45	7.5	6000				
FY0757000	100~240	52.5	7.5	7000				
FY0757500	100~240	56.25	7.5	7500				
FY0850300	100~240	2.55	8.5	300	2X0.9MM 4T	20A 45V	1000uF 16V	
FY0850400	100~240	3.4	8.5	400				
FY0850500	100~240	4.25	8.5	500				
FY0850600	100~240	5.1	8.5	600				
FY0850700	100~240	5.95	8.5	700				
FY0850800	100~240	6.8	8.5	800				
FY0850900	100~240	7.65	8.5	900				
FY0851000	100~240	8.5	8.5	1000				
FY0851500	100~240	12.75	8.5	1500				
FY0852000	100~240	17	8.5	2000				
FY0853000	100~240	25.5	8.5	3000				
FY0854000	100~240	34	8.5	4000				

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Miscellaneous ID 7-01

FY0900300	100~240	2.7	9	300	2X0.9MM 4T	20A 45V	1000uF 16V		
FY0900400	100~240	3.6	9	400					
FY0900500	100~240	4.5	9	500					
FY0900600	100~240	5.4	9	600					
FY0900700	100~240	6.3	9	700					
FY0900800	100~240	7.2	9	800					
FY0900900	100~240	8.1	9	900					
FY0901000	100~240	9	9	1000					
FY0901500	100~240	13.5	9	1500					
FY0902000	100~240	18	9	2000					
FY0903000	100~240	27	9	3000					
FY0904000	100~240	36	9	4000					
FY0905000	100~240	45	9	5000					
FY0906000	100~240	54	9	6000					
FY0907000	100~240	63	9	7000					
FY0907500	100~240	67.5	9	7500					
FY1000300	100~240	3	10	300	2X0.9MM 4T	20A 45V	1000uF 16V		
FY1000400	100~240	4	10	400					
FY1000500	100~240	5	10	500					
FY1000600	100~240	6	10	600					
FY1000700	100~240	7	10	700					
FY1000800	100~240	8	10	800					
FY1000900	100~240	9	10	900					
FY1001000	100~240	10	10	1000					
FY1001500	100~240	15	10	1500					
FY1002000	100~240	20	10	2000					
FY1003000	100~240	30	10	3000					
FY1004000	100~240	40	10	4000					
FY1005000	100~240	50	10	5000					
FY1006000	100~240	60	10	6000					
FY1007000	100~240	70	10	7000					
FY1007500	100~240	75	10	7500					
FY1200300	100~240	3.6	12	300	2X0.9MM 4T	20A 45V	1000uF 16V		
FY1200400	100~240	4.8	12	400					
FY1200500	100~240	6	12	500					
FY1200600	100~240	7.2	12	600					
FY1200700	100~240	8.4	12	700					
FY1200800	100~240	9.6	12	800					
FY1200900	100~240	10.8	12	900					
FY1201000	100~240	12	12	1000					
FY1201500	100~240	18	12	1500					
FY1202000	100~240	24	12	2000					
FY1203000	100~240	36	12	3000					
FY1204000	100~240	48	12	4000					
FY1205000	100~240	60	12	5000					
FY1206000	100~240	72	12	6000					
FY1207000	100~240	84	12	7000					
FY1207500	100~240	90	12	7500					

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FY1260700	100~240	8.82	12.6	700					
FY1260800	100~240	10.08	12.6	800					
FY1260900	100~240	11.34	12.6	900					
FY1261000	100~240	12.6	12.6	1000					
FY1261500	100~240	18.9	12.6	1500					
FY1262000	100~240	25.2	12.6	2000					
FY1263000	100~240	37.8	12.6	3000					
FY1264000	100~240	50.4	12.6	4000					
FY1265000	100~240	63	12.6	5000					
FY1266000	100~240	75.6	12.6	6000					
FY1267000	100~240	88.2	12.6	7000					
FY1267500	100~240	94.5	12.6	7500					
FY1350300	100~240	4.05	13.5	300	2X0.9MM 5T	20A 80V	1000uF 16V		
FY1350400	100~240	5.4	13.5	400					
FY1350500	100~240	6.75	13.5	500					
FY1350600	100~240	8.1	13.5	600					
FY1350700	100~240	9.45	13.5	700					
FY1350800	100~240	10.8	13.5	800					
FY1350900	100~240	12.15	13.5	900					
FY1351000	100~240	13.5	13.5	1000					
FY1351500	100~240	20.25	13.5	1500					
FY1352000	100~240	27	13.5	2000					
FY1353000	100~240	40.5	13.5	3000					
FY1354000	100~240	54	13.5	4000					
FY1355000	100~240	67.5	13.5	5000					
FY1356000	100~240	81	13.5	6000					
FY1357000	100~240	94.5	13.5	7000					
FY1500300	100~240	4.5	15	300	2X0.9MM 5T	20A 80V	1000uF 25V		
FY1500400	100~240	6	15	400					
FY1500500	100~240	7.5	15	500					
FY1500600	100~240	9	15	600					
FY1500700	100~240	10.5	15	700					
FY1500800	100~240	12	15	800					
FY1500900	100~240	13.5	15	900					
FY1501000	100~240	15	15	1000					
FY1501500	100~240	22.5	15	1500					
FY1502000	100~240	30	15	2000					
FY1503000	100~240	45	15	3000					
FY1504000	100~240	60	15	4000					
FY1505000	100~240	75	15	5000					
FY1506000	100~240	90	15	6000					
FY1507000	100~240	105	15	7000					
FY1600300	100~240	4.8	16	300	2X0.9MM 5T	20A 80V	1000uF 25V		
FY1600400	100~240	6.4	16	400					
FY1600500	100~240	8	16	500					
FY1600600	100~240	9.6	16	600					
FY1600700	100~240	11.2	16	700					

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FY1603000	100~240	48	16	3000					
FY1603750	100~240	60	16	3750					
FY1604000	100~240	64	16	4000					
FY1605000	100~240	80	16	5000					
FY1606000	100~240	96	16	6000					
FY1700300	100~240	5.1	17	300	2X0.9MM 6T	20A 60V	1000uF 25V		
FY1700500	100~240	6.8	17	400					
FY1700500	100~240	8.5	17	500					
FY1700600	100~240	10.2	17	600					
FY1700700	100~240	11.9	17	700					
FY1700800	100~240	13.6	17	800					
FY1700900	100~240	15.3	17	900					
FY1701000	100~240	17	17	1000					
FY1701500	100~240	25.5	17	1500					
FY1702000	100~240	34	17	2000					
FY1703000	100~240	51	17	3000					
FY1704000	100~240	68	17	4000					
FY1705000	100~240	85	17	5000					
FY1706000	100~240	102	17	6000					
FY1800300	100~240	5.4	18	300	2X0.9MM 6T	20A 100V	1000uF 25V		
FY1800400	100~240	7.2	18	400					
FY1800500	100~240	9	18	500					
FY1800600	100~240	10.8	18	600					
FY1800700	100~240	12.6	18	700					
FY1800800	100~240	14.4	18	800					
FY1800900	100~240	16.2	18	900					
FY1801000	100~240	18	18	1000					
FY1801500	100~240	27	18	1500					
FY1802000	100~240	36	18	2000					
FY1803000	100~240	54	18	3000					
FY1804000	100~240	72	18	4000					
FY1805000	100~240	90	18	5000					
FY1806000	100~240	108	18	6000					
FY1900300	100~240	5.7	19	300	2X0.9MM 6T	20A 100V	1000uF 25V		
FY1900400	100~240	7.6	19	400					
FY1900500	100~240	9.5	19	500					
FY1900600	100~240	11.4	19	600					
FY1900700	100~240	13.3	19	700					
FY1900800	100~240	15.2	19	800					
FY1900900	100~240	17.1	19	900					
FY1901000	100~240	19	19	1000					
FY1901500	100~240	28.5	19	1500					
FY1902000	100~240	38	19	2000					
FY1903000	100~240	57	19	3000					
FY1903150	100~240	59.85	19	3150					
FY1904000	100~240	76	19	4000					
FY1904750	100~240	90.25	19	4750					

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FY2100500	100~240	10.5	21	500				
FY2100600	100~240	12.6	21	600				
FY2100700	100~240	14.7	21	700				
FY2100800	100~240	16.8	21	800				
FY2100900	100~240	18.9	21	900				
FY2101000	100~240	21	21	1000				
FY2101500	100~240	31.5	21	1500				
FY2102000	100~240	42	21	2000				
FY2103000	100~240	63	21	3000				
FY2104000	100~240	84	21	4000				
FY2105000	100~240	105	21	5000				
FY2400300	100~240	7.2	24	300	2X0.9MM 7T	20A 150V	470uF 35V	
FY2400400	100~240	9.6	24	400				
FY2400500	100~240	12	24	500				
FY2400600	100~240	14.4	24	600				
FY2400700	100~240	16.8	24	700				
FY2400800	100~240	19.2	24	800				
FY2400900	100~240	21.6	24	900				
FY2401000	100~240	24	24	1000				
FY2401500	100~240	36	24	1500				
FY2402000	100~240	48	24	2000				
FY2402500	100~240	60	24	2500				
FY2403000	100~240	72	24	3000				
FY2403500	100~240	84	24	3500				
FY2404000	100~240	96	24	4000				
FY2404500	100~240	108	24	4500				
FY2405000	100~240	120	24	5000				
FY2550300	100~240	7.85	25.5	300	2X0.9MM 7T	20A 150V	470uF 35V	
FY2550400	100~240	10.2	25.5	400				
FY2550500	100~240	12.75	25.5	500				
FY2550600	100~240	15.3	25.5	600				
FY2550700	100~240	17.85	25.5	700				
FY2550800	100~240	20.4	25.5	800				
FY2550900	100~240	22.95	25.5	900				
FY2551000	100~240	25.5	25.5	1000				
FY2551500	100~240	38.25	25.5	1500				
FY2552000	100~240	51	25.5	2000				
FY2552500	100~240	63.75	25.5	2500				
FY2553000	100~240	76.5	25.5	3000				
FY2553500	100~240	89.25	25.5	3500				
FY2554000	100~240	102	25.5	4000				
FY2554500	100~240	114.75	25.5	4500				
FY2900300	100~240	8.7	29	300	2X0.9MM 9T	20A 150V	470uF 35V	
FY2900400	100~240	11.6	29	400				
FY2900500	100~240	14.5	29	500				
FY2900600	100~240	17.4	29	600				
FY2900700	100~240	20.3	29	700				

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FY2902500	100~240	72.5	29	2500					
FY2903000	100~240	87	29	3000					
FY2903500	100~240	101.5	29	3500					
FY2904000	100~240	116	29	4000					
FY3000300	100~240	9	30	300	2X0.9MM 9T	20A 150V	470uF 35V		
FY3000400	100~240	12	30	400					
FY3000500	100~240	15	30	500					
FY3000600	100~240	18	30	600					
FY3000700	100~240	21	30	700					
FY3000800	100~240	24	30	800					
FY3000900	100~240	27	30	900					
FY3001000	100~240	30	30	1000					
FY3001500	100~240	45	30	1500					
FY3002000	100~240	60	30	2000					
FY3002500	100~240	75	30	2500					
FY3003000	100~240	90	30	3000					
FY3003500	100~240	105	30	3500					
FY3400300	100~240	10.2	34	300	2X0.9MM 10T	20A 150V	470uF 50V		
FY3400400	100~240	13.6	34	400					
FY3400500	100~240	17	34	500					
FY3400600	100~240	20.4	34	600					
FY3400700	100~240	23.8	34	700					
FY3400800	100~240	27.2	34	800					
FY3400900	100~240	30.6	34	900					
FY3401000	100~240	34	34	1000					
FY3401500	100~240	51	34	1500					
FY3402000	100~240	68	34	2000					
FY3402500	100~240	85	34	2500					
FY3403000	100~240	102	34	3000					
FY3600300	100~240	10.8	36	300	2X0.9MM 10T	20A 150V	470uF 50V		
FY3600400	100~240	14.4	36	400					
FY3600500	100~240	18	36	500					
FY3600600	100~240	21.6	36	600					
FY3600700	100~240	25.2	36	700					
FY3600800	100~240	28.8	36	800					
FY3600900	100~240	32.4	36	900					
FY3601000	100~240	36	36	1000					
FY3601500	100~240	54	36	1500					
FY3602000	100~240	72	36	2000					
FY3602500	100~240	90	36	2500					
FY3603000	100~240	108	36	3000					
FY3800300	100~240	11.4	38	300	2X0.9MM 11T	16A 200V	470uF 50V		
FY3800400	100~240	15.2	38	400					
FY3800500	100~240	19	38	500					
FY3800600	100~240	22.8	38	600					
FY3800700	100~240	26.6	38	700					

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FY3802500	100~240	95	38	2500					
FY3803000	100~240	114	38	3000					
FY4250300	100~240	12.75	42.5	300	2X0.9MM 12T	16A 200V	470uF 50V		
FY4250400	100~240	17	42.5	400					
FY4250500	100~240	21.25	42.5	500					
FY4250600	100~240	25.5	42.5	600					
FY4250700	100~240	29.75	42.5	700					
FY4250800	100~240	34	42.5	800					
FY4250900	100~240	38.25	42.5	900					
FY4251000	100~240	42.5	42.5	1000					
FY4251500	100~240	63.75	42.5	1500					
FY4252000	100~240	85	42.5	2000					
FY4252500	100~240	106.25	42.5	2500					
FY4252600	100~240	119	42.5	2800					
FY4300300	100~240	12.9	43	300	2X0.9MM 12T	10A 200V	470uF 50V		
FY4300400	100~240	17.2	43	400					
FY4300500	100~240	21.5	43	500					
FY4300600	100~240	25.8	43	600					
FY4300700	100~240	30.1	43	700					
FY4300800	100~240	34.4	43	800					
FY4300900	100~240	38.7	43	900					
FY4301000	100~240	43	43	1000					
FY4301500	100~240	64.5	43	1500					
FY4302000	100~240	86	43	2000					
FY4302500	100~240	107.5	43	2500					
FY4302700	100~240	116.1	43	2700					
FY4400300	100~240	13.2	44	300	2X0.9MM 12T	16A 200V	470uF 50V		
FY4400400	100~240	17.6	44	400					
FY4400500	100~240	22	44	500					
FY4400600	100~240	26.4	44	600					
FY4400700	100~240	30.8	44	700					
FY4400800	100~240	35.2	44	800					
FY4400900	100~240	39.6	44	900					
FY4401000	100~240	44	44	1000					
FY4401500	100~240	66	44	1500					
FY4402000	100~240	88	44	2000					
FY4402500	100~240	110	44	2500					
FY4402700	100~240	118.8	44	2700					
FY4500300	100~240	13.5	45	300	2X0.9MM 12T	16A 200V	470uF 50V		
FY4500400	100~240	18	45	400					
FY4500500	100~240	22.5	45	500					
FY4500600	100~240	27	45	600					
FY4500700	100~240	31.5	45	700					
FY4500800	100~240	36	45	800					
FY4500900	100~240	40.5	45	900					
FY4501000	100~240	45	45	1000					

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FY4600400	100~240	18.4	46	400				
FY4600500	100~240	23	46	500				
FY4600600	100~240	27.6	46	600				
FY4600700	100~240	32.2	46	700				
FY4600800	100~240	36.8	46	800				
FY4600900	100~240	41.4	46	900				
FY4601000	100~240	46	46	1000				
FY4601500	100~240	69	46	1500				
FY4602000	100~240	92	46	2000				
FY4602500	100~240	115	46	2500				
FY4603000	100~240	14.4	46	300	2X0.8MM 12T	16A 200V	330uF 63V	
FY4604000	100~240	19.2	46	400				
FY4605000	100~240	24	46	500				
FY4606000	100~240	28.8	46	600				
FY4607000	100~240	33.6	46	700				
FY4608000	100~240	38.4	46	800				
FY4609000	100~240	43.2	46	900				
FY4601000	100~240	46	46	1000				
FY4601500	100~240	72	46	1500				
FY4602000	100~240	96	46	2000				
FY4602500	100~240	120	46	2500				
FY5100300	100~240	15.3	51	300	2X0.9MM 14T	16A 200V	330uF 63V	
FY5100400	100~240	20.4	51	400				
FY5100500	100~240	25.5	51	500				
FY5100600	100~240	30.6	51	600				
FY5100700	100~240	35.7	51	700				
FY5100800	100~240	40.8	51	800				
FY5100900	100~240	45.9	51	900				
FY5101000	100~240	51	51	1000				
FY5101500	100~240	76.5	51	1500				
FY5102000	100~240	102	51	2000				
FY5102200	100~240	112.2	51	2200				
FY5502000	100~240	116	56	2000	2X0.9MM 14T	16A 200V	330uF 63V	
FY5600300	100~240	17.4	56	300	2X0.9MM 14T	16A 200V	330uF 63V	
FY5600400	100~240	23.2	56	400				
FY5600500	100~240	29	56	500				
FY5600600	100~240	34.8	56	600				
FY5600700	100~240	40.6	56	700				
FY5600800	100~240	46.4	56	800				
FY5600900	100~240	52.2	56	900				
FY5601000	100~240	56	56	1000				
FY5601500	100~240	87	56	1500				
FY5602000	100~240	116	56	2000				

Enclosure

Test Record

Description
Test Record 1
CRD
datasheet

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Test Record No. 1

The manufacturer submitted representative production samples switching power supply, FY5802000, FY0307500, FY1267500, FY5800300, FY4802500, FY0300300 and FY2405000. Unless otherwise indicated, all tests were conducted on FY5802000, FY0307500, FY1267500, FY5800300, FY4802500, FY0300300 and FY2405000. Tests performed on FY5802000, FY0307500, FY1267500, FY5800300, FY4802500, FY0300300 and FY2405000 were considered to be representative of FYXXXXYYY series. The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in UL 60950-1:2003, First Edition with revisions November 26, 2003 and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report. The following tests conducted in accordance with UL 60950-1:2003, First Edition with revisions November 26, 2003 were considered representative of the same tests required by Canadian Standard, CSA CSA C22.2 No. 60950-1-03 1st Ed. April 1, 2003. Unless otherwise noted in the above list of tests, all tests were conducted by USAI TECHNOLOGY SERVICES CO LTD in China under WTDP program and witness by UL staff.

The following tests were conducted:

Test	Comments
End Product Reference Page	
General Guidelines	
Power Supply Reference Page	
Maximum Output Voltage, Current, and Volt-Ampere Measurement (1.2.2.1)	
Double or Reinforced Insulation Bridged By Components (1.5.7.4, Annex D)	
Input: Single-Phase (1.6.2)	
Durability of Marking (1.7.13)	
Capacitance Discharge (2.1.1.7)	
SELV Reliability (2.2.2, 2.2.3, 2.2.4)	
Humidity (2.9.1, 2.9.2, 5.2.2)	
Determination of Working Voltage; Voltage Measurement (2.10.2)	
Determination of Working Voltage; Hazardous Voltage (Circuit) Measurement (2.10.2)	
Transformer/Insulation Electric Strength (2.10.5.2, 2.9.5)	
Strain Relief (3.2.6, 4.2.1, 4.2.7)	
Steady Force (4.2.1 - 4.2.4)	
Impact (4.2.5, 4.2.1)	
Drop (4.2.6, 4.2.1)	
Stress Relief (4.2.7, 4.2.1)	
Heating (4.5.1, 1.4.12, 1.4.13)	

Ball Pressure (4.5.2, 4.5)	
Touch Current (Single-Phase/ Polyphase; TN/TT System) (5.1, Annex D)	
Electric Strength (5.2.2)	
Component Failure (5.3.1, 5.3.4, 5.3.6)	
Transformer Abnormal Operation (5.3.3, 5.3.6b, Annex C.1)	
Power Supply Output Short-Circuit/Overload (5.3.6)	

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard.

Enclosure

Test Reference

(For UL Reference only - Not for Outside Distribution)

Description
Test Reference 1
Circuit diagram

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Report Reference #

E304160-A1

Test Reference No. 1

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