

UL TEST REPORT AND PROCEDURE

Standard:	UL 60950-1, 2nd Edition, 2007-03-27 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03 (Information Technology Equipment - Safety - Part 1: General Requirements)
Certification Type:	Listing
CCN:	QQGQ, QQGQ7 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)
Product:	Power Supply
Model:	CENT1120AXYFZ, where X represents the output voltage which may be the number 9, 12, 15, 18 to 48; Y indicates the output connector style which may be any number from 00-99; F indicates the C14 type AC inlet; and Z represents non-safety related customer options which may be any number from 00-99.
Rating:	MW155RA2400F06, 2606270-XX (X=0-9) Input: 100-240 V~, 50-60 Hz, 2.0 A Output: CENT1120A0900F02: 9 V dc/9 A CENT1120A12YFZ: 12 V dc/8.33 (100-110 V~); 12 V dc/9.165 A (>110-240 V~) CENT1120A15YFZ: 15 V dc/7.33 A CENT1120A18YFZ: 18 V dc/6.66 A CENT1120A24YFZ, MW155RA2400F06 and 2606270-XX: 24 V dc/5.0 A CENT1120A48YFZ: 48 V dc/2.5 A
Applicant Name and Address:	SL POWER ELECTRONICS CORP BLDG A 6050 KING ST VENTURA CA 93003 UNITED STATES

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.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

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Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - 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.
 - 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.
 - 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.

Product Description

External Power Supply Adapter provided with an appliance inlet, Class I equipment. Power supply is housed in a thermoplastic enclosure.

Model Differences

There are minor component differences between voltage models and the main transformer T1 has differences in number of turns in the secondary windings based on output voltage.

Model MW155RA2400F06 is similar to Model CENT1120A24YFZ except for designation, add fuse FP2, alternate line chock construction (LFP2, LFP4), add bridging capacitors (CYP7 and CYP8) and without L type heatsink.

Model MW155RA2400F06 is identical to Model 2606270-XX except for designation.

Technical Considerations

- Equipment mobility : movable
- Connection to the mains : pluggable A
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +6%, -10% ; (+10%, -10% for Models MW155RA2400F06, 2606270-XX)
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A

- Class of equipment : Class I (earthed)
- Considered current rating (A) : 20
- Pollution degree (PD) : PD 2
- IP protection class : IP 41
- Altitude of operation (m) : 0-2000
- Altitude of test laboratory (m) : 0-2000
- Mass of equipment (kg) : 0.81Kg
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40Deg.C for Models CENT1120A0900F02, MW155RA2400F06 and 2606270-XX;, 25 Deg.C for all other models.
- The means of connection to the mains supply is: Pluggable A, Detachable power cord
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: Appliance inlet
- The following accessible locations (with circuit/schematic designation) are within a limited current circuit: The load side of CYP7 and CYP8 for Models MW155RA2400F06 and 2606270-XX., The load side of CYP3 and CYP4 for all other models.
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

Additional Information

N/A

Markings and instructions

Clause Title	Marking or Instruction Details
Inter-connecting cables - Non-LPS or TNV	Non-LPS or TNV output connectors identify the type of circuit, intended cable type or relevant circuit characteristics. (Marking or Instruction)
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
Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.
In marking label or user manual (for neutral fuse):	No serviceable parts inside

Special Instructions to UL Representative

Inspect the transformer(s) listed in table "Electric Strength Test Special Constructions" per AA1.1- (C): When the tests are conducted at other location, inspect test record and specification sheet provided by the component manufacturer. Verify the specification sheet indicates 100% routine test specified in the table be conducted at the component manufacturer.

Production-Line Testing Requirements

Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.

Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
CENT1120A XYFZ, MW155RA2 400F06, 2606270-XX	Transformer T1	N/A	Primary to Secondary	300 0	4242	1

Earthing Continuity Test Exemptions - This test is not required for the following models:

Electric Strength Test Exemptions - This test is not required for the following models:

Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:

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Sample and Test Specifics for Follow-Up Tests at UL

Model	Component	Material	Test	Sample(s)	Test Specifics
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