

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:	Component Recognition
CCN:	QQGQ2, QQGQ8 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)
Product:	Power Supply
Model:	CINT1275VWWXXYZZ (Where V represents the generational differences which may be either A or B (A is for Class I and B is for Class II construction), WW represents the output voltage which may be any number from 12 to 56, XX represents output connector which may be any two alphanumeric digits, Y represents the input connector which may be any letter from A thru Z, and ZZ represents non-safety related customer options and RoHS statements which may be any two alphanumeric digits, for marketing purpose and no impact safety related critical components and constructions.)
Rating:	Input: 100-240Vac, 50-60Hz, 3.7A Output: With 200 LFM: Main Output: 12Vdc/21.84A to 56Vdc/4.68A, Maximum 262W, Fan Output: 12Vdc/1.0A, Signal: 5VSB/0.2A. Without LFM: Main Output: 12Vdc/15A to 56Vdc/3.22A, Maximum 180W, Fan Output: 12Vdc/0A, Signal:5VSB/0.2A.
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.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

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

Prepared by: Jasper Wu
Underwriters Laboratories Inc.
Reviewed by: Jenly Ge
Underwriters Laboratories Inc.

Handwritten signatures of Jasper Wu and Jenly Ge in black ink. The signature for Jasper Wu is written above the signature for Jenly Ge.

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

Open frame power supply for built-in, electrical components are mounted on PWB.

Model Differences

Models CINT1275AWWXXYZZ are identical to CINT1275BWWXXYZZ except for class of equipment and designation.

CINT1275AWWXXYZZ: for Class I product, all models are identical to each other except for secondary circuit, transformer secondary winding and designation.

CINT1275BWWXXYZZ: for Class II product, all models are identical to each other except for secondary circuit, transformer secondary winding and designation.

Technical Considerations

- Equipment mobility : for building-in
- Connection to the mains : to be determined in end use
- Operating condition : continuous
- Access location : to be determined in end use
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10%
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class II (double insulated) for CINT1275BWWXXYZZ, Class I (earthed) for

CINT1275AWWXXYZZ.

- Considered current rating (A) : 16
- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : 0-3000
- Altitude of test laboratory (m) : 0-2000
- Mass of equipment (kg) : 0.388
- The product was submitted and evaluated for use at the maximum ambient temperature (T_{ma}) permitted by the manufacturer's specification of: 50Deg.C
- The means of connection to the mains supply is: Pluggable A, ,
- The product is intended for use on the following power systems: TN
- The product was investigated to the following additional standards: EN 60950-1:2006+ A11:2009 (which includes all European national differences, including those specified in this test report)., IEC 60664-1 TABLE A.2.
- The following accessible locations (with circuit/schematic designation) are within a limited current circuit: For CINT1275BWWXXYZZ: C327 load side.
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

Engineering Conditions of Acceptability

For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. When installed in an end-product, consideration must be given to the following:

- The following Production-Line tests are conducted for this product: Electric Strength,
- The end-product Electric Strength Test is to be based upon a maximum working voltage of: Primary-SELV: 336 Vrms, 544 Vpk , Primary - Earthed: 368Vrms, 540Vpk.
- The following secondary output circuits are SELV: DC: secondary outputs. ,

- The following secondary output circuits are at hazardous energy levels: J303 +V1 to RTN output.
- The following secondary output circuits are at non-hazardous energy levels: J301 12V Fan+ to 12V Fan RTN, and J201 +5VSB to +5VSB RTN,
- The following secondary output circuits are Limited Current Circuits: The load output of C327 for CINT1275BWWXXYZZ
- The power supply terminals and/or connectors are: Not investigated for field wiring
- The maximum investigated branch circuit rating is: 16 A
- The investigated Pollution Degree is: 2
- Proper bonding to the end-product main protective earthing termination is: Required for CINT1275AWWXXYZZ.,
- An investigation of the protective bonding terminals has: Not been conducted
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJ2 insulation system with the indicated rating greater than Class A (105°C): T300, T201, T101 and T102 (Class F)
- The following end-product enclosures are required: Fire, Electrical
- The following components require special consideration during end-product Thermal (Heating) tests due to the indicated maximum temperature measurements during component-level testing: T300, T201, T101 and T102(130 degree C)
- The maximum continuous power supply output (Watts) relied on forced air cooling from: For 275W of CINT1275 family:, 200LFM fan employed, the detailed location and orientation of fan see Enclosure 7-03 for details.
- The equipment is suitable for direct connection to: AC mains supply

Additional Information

The label is a draft of an artwork for marking plate pending approval by National Certification Bodies and it shall not be affixed to products prior to such an approval.

Additional Standards

The product fulfills the requirements of: EN 60950-1:2006 + A11:2009

Markings and instructions

Clause Title	Marking or Instruction Details
Power rating - Ratings	