File E186249
Project 06CA37130

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REPORT

On

COMPONENT - POWER SUPPLIES, INFORMATION TECHNOLOGY EQUIPMENT

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DESCRIPTION

PRODUCT COVERED:

USR, CNR Component - Switching Power Supply, Model DS850-3-002 for use in Information Technology Equipment.

ELECTRICAL RATINGS:

MODEL	INPUT	OUTPUT	
DS850-3-002	100 - 240 V AC 12 A 50 / 60 Hz	+ 5.0 V aux + 12 V dc	4 A max 70 A max

Maximum Combined Output Power is 850 W.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE):

General – The unit is for use in product where the acceptability of the combination is determined by Underwriters Laboratories Inc.

* Both USR and CNR indicate investigation to the Standard for Safety of Information Technology Equipment, UL 60950-1, Second Edition, date **October 14, 2014** and CAN/CSA C22.2 No. 60950-1-07, date **October 14, 2014.**

Conditions of Acceptability – When installed in the end-use equipment, the following are the considerations to be made:

*1. This component has been judged on the basis of the required creepages and clearances in the Second Edition of the Standard for Safety of Information Technology Equipment, UL 60950-1, Second Edition, date **October 14, 2014** and CAN/CSA C22.2 No. 60950-1-07, date **October 14, 2014,** Sub-clause 2.10 and Annex G (altitude requirement), which covers the end-use product for which the component was designed. The operational insulation has been evaluated by conducting Component Failure Test per Sub-clause 5.3.4(c) of UL 60950-1, Second Edition, date **October 14, 2014** and CAN/CSA C22.2 No. 60950-1-07, date **October 14, 2014.**

2. This power supply has only been evaluated for use in a pollution degree 2 environment.

*3. This power supply was evaluated with the assumption that the power source is a TN power system as defined by UL 60950-1, Second Edition, date **October 14, 2014** and CAN/CSA C22.2 No. 60950-1-07, date **October 14, 2014.**

4. A suitable fire, mechanical and electrical enclosure shall be provided by end use equipment.

*5. This power supply has been evaluated for use in Class I equipment as defined in UL 60950-1, Second Edition, date **October 14, 2014** and CAN/CSA C22.2 No. 60950-1-07, date **October 14, 2014** and shall be properly earthed or bonded to earth in the end-use. An additional evaluation shall be made if the power supply is intended for use in other than Class I equipment.

*6. +12 V output of the power supply is unearthed energy hazard SELV, while + 5.0 Vaux is unearthed non-energy hazard SELV. Sub-clause 2.2.3.1 per UL 60950-1, Second Edition, date **October 14, 2014** and CAN/CSA C22.2 No. 60950-1-07, date **October 14, 2014** were used to maintain the insulation of SELV from primary circuits.

7. This power supply has been evaluated for use in 25°C and 50°C ambient.

8. Transformers T103, T104, T131 and T402 employ Class F electrical insulation system and T107 employ Class H electrical insulation system.

9. The secondary output connector has not been evaluated for field connections.

10. This power supply is classified Level 5 as defined by UL 60950-1, Second Edition and CAN/CSA C22.2 No. 60950-1-07.

*11. This power supply can be operated in an elevation of maximum 3048 meters above sea level. Annex G of UL 60950-1, Second Edition, date **October 14, 2014** & CAN/CSA C22.2 No. 60950-1-07, date **October 14, 2014** was used in determining the clearance requirement.