

File E186249
Project 07CA52312

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REPORT

On

COMPONENT - POWER SUPPLIES, INFORMATION TECHNOLOGY EQUIPMENT

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Quezon City, Philippines

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DESCRIPTION

PRODUCT COVERED:

USR, CNR Component - Switching Power Supply, Model DS1800-3 for use in Information Technology Equipment.

ELECTRICAL RATINGS:

MODEL	INPUT	OUTPUT
DS1800-3	AC 100 - 200 V 13.0 A 50 / 60 Hz	DC + 12 V 83.0 A max. DC + 3.3Vsb 9.0 A max.
	AC 200 - 240 V 13.0 A 50 / 60 Hz	DC + 12 V 147.5 A max. DC + 3.3Vsb 9.0 A max.

Maximum Continuous Output Power at AC100-200V input is 1000 W.

Maximum Continuous Output Power at AC200-240V input is 1800 W.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S 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, dated March 27, 2007** and CAN/CSA-C22.2 No. **60950-1-07, Second Edition, dated March 27, 2007..**

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 First Edition of the Standard for Safety of Information Technology Equipment, UL 60950-1, **Second Edition** and CAN/CSA C22.2 No. **60950-1-07, Second Edition** Sub-clause 2.10 and Annex G (altitude requirement), which covers the end-use product for which the component was designed. The functional insulation has been evaluated by conducting Component Failure Test per Sub-clause 5.3.4(c) of UL 60950-1, **Second Edition** and CAN/CSA C22.2 No. **60950-1-07 Second Edition**.
2. This component has only been evaluated for use in pollution degree 2 environment.

- *3. This power supply has been evaluated with the assumption that the power source is a TN power system as defined by UL 60950-1, **Second Edition** and CAN/CSA C22.2 No. **60950-1-07 Second Edition**.
4. A suitable electrical, mechanical and fire 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** and CAN/CSA C22.2 No. **60950-1-07, Second Edition** 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. The secondary outputs of the power supply are considered SELV and the output (+12.0V) would represent energy hazardous, the unit shall be handled with care during end product installation. Sub-clause 2.2.3.1 per UL 60950-1, **Second Edition** and CAN/CSA-C22.2 No **60950-1-07, Second Edition** were used to maintain the insulation of SELV from primary circuits.
7. This power supply has been evaluated for use in 25°C and 40°C ambient.
8. Transformer T2 employ Class 155(F) electrical insulation system.
9. The supply and secondary output connector have not been evaluated for field connections.
- *10. This power supply is classified as Level 5 as defined by UL 60950-1, **Second Edition** and CAN/CSA-C22.2 No. **60950-1-07, Second Edition**.
- *11. This power supply can be operated in an elevation of maximum 10000 ft or 3048 meters above sea level. Annex G of UL 60950-1, **Second Edition** & CAN/CSA C22.2 No. **60950-1-07, Second Edition** was used in determining the clearance requirement.
12. The disconnection from the line must be considered in the end system.
13. No energy hazard exists at the PSU outputs in the removed condition.
14. The power supplies were not evaluated for end system mounting. When installed in the end system, the proper evaluation should be considered.
15. The following cautionary markings shall be provided in the servicing instructions: Caution: Double Pole / Neutral Fusing