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REPORT

On

*COMPONENT - POWER SUPPLIES, INFORMATION TECHNOLOGY EQUIPMENT

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DESCRIPTION

PRODUCT COVERED:

*USR, CNR Component - Switching Power Supplies, Models LPS173 and LPS172 for use in Information Technology Equipment.

ELECTRICAL RATINGS:

MODEL	INPUT	OUTPUT
LPS173	AC 100 - 250 V 4 A 50/60 Hz DC 120 V min. - 300 V max.	(180 W at 30 CFM Forced air cooling) DC +6 - 12 V, 15 A max. DC +5 VSTBY, 2 A max. DC +12 V (FAN_OUT), 1 A max.
		(110 W at Convection cooling) DC +6 - 12 V, 9.1 A max. DC +5 - VSTBY, 2 A max. DC +12 V (FAN_OUT), 0.5 max.
		(75 W at Convection Cooling) DC +6 - 12 V, 6.25 A max. DC +5 - VSTBY, 2 A max. DC +12 V (FAN_OUT), 0.5 max.
LPS172	AC 100 - 250 V 4 A 50/60 Hz DC 120 V min. - 300 V max.	(175 W at 30 CFM Forced air cooling) DC +2.5 - 6.0 V, 35 A max. DC +5 VSTBY, 2 A max. DC +12 V (FAN_OUT), 1 A max.
		(110 W at Convection cooling) DC +2.5 - 6.0 V, 22 A max. DC +5 VSTBY, 1 A max. DC +12 V (FAN_OUT), 0.5 A max.
		(75 W at Convection cooling) DC +2.5 - 6.0 V, 15 A max. DC +5 VSTBY, 1 A max. DC +12 V (FAN_OUT), 0.5 A max.

For Model LPS173

- Maximum continuous output power is 180 W with 30 CFM forced air cooling, unit with or without cover.
- Maximum continuous output power is 110 W with convection cooling, unit without cover.
- Maximum continuous output power is 75 W with convection air cooling, unit with cover.

For Model LPS172

- Maximum continuous output power is 175 W with 30 CFM forced air cooling, unit with or without cover.
- Maximum continuous output power is 110 W with convection cooling, unit without cover.
- Maximum continuous output power is 75 W with convection air cooling, unit with cover.

Output power for both Models LPS173 and LPS172 derate 2.5% per degree from 50°C to 70°C ambient temperature.

***TECHNICAL 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, CAN/CSA C22.2 No. 60950-1-07, Second Edition.**

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, CAN/CSA C22.2 No. 60950-1-07**, Sub-clause 2.10, which covers the end-use product for which the component was designed. The functional insulations have been evaluated by conducting Component Failure Test per Sub-clause 5.3.4(c) of UL 60950-1, **Second Edition, CAN/CSA C22.2 No. 60950-1-07.**
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-S system as defined by UL 60950-1, **Second Edition, CAN/CSA C22.2 No. 60950-1-07.**
4. A suitable 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, CAN/CSA C22.2 No. 60950-1-07** 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 unearthed non-energy hazard SELV. Sub-clause 2.2.3.1 per UL 60950-1, **Second Edition, CAN/CSA C22.2 No. 60950-1-07** 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, T1, T2, T3, T4 and T5 employ Class F electrical insulation system.
9. The input and secondary output connectors have not been evaluated for field connections.

- *10. This power supply is classified Level 3 as defined by UL 60950-1, **Second** Edition, CAN/CSA C22.2 No. **60950-1-07**.
- 11. A suitable power supply disconnection means is to be provided by the end-use equipment.
- 12. This power supply has been evaluated under a specified forced air cooling and convection. Refer to ILL. 3 for details of forced air cooling ventilation system.
- 13. Maximum current per output at convection cooling must be computed as per Installation and Operating Instruction.