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REPORT

On

*COMPONENT - POWER SUPPLIES INFORMATION TECHNOLOGY EQUIPMENT

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DESCRIPTION

PRODUCT COVERED:

*SR, CNR Component - Switching Power Supplies, Models LPS174 and LPS175 for use in Information Technology Equipment.

ELECTRICAL RATINGS:

MODEL	INPUT	OUTPUT
		180 W FORCED AIR
LPS174	AC 100 - 250 V 4.0 A 50 / 60 Hz	V1: DC +12.0 to +24.0 V, 12.0 A MAX +5VSTBY, 2.0 A MAX +12V (FAN_OUT), 1.0 A MAX
	OR	110 W CONVECTION COOLING
	DC 120Vmin - 300Vmax 4.0 A	V1: DC +12.0 to +24.0 V, 7.3 A MAX +5VSTBY, 1.0 A MAX +12V (FAN_OUT), 0.5 A MAX
		75 W CONVECTION COOLING
		V1: DC +12.0 to +24.0 V, 5.33 A MAX +5VSTBY, 1.0 A MAX +12V (FAN_OUT), 0.5 A MAX
		180 W FORCED AIR
LPS175	AC 100 - 250 V 4.0 A 50 / 60 Hz	V1: DC +24.0 to +54.0 V, 7.5 A MAX +5VSTBY, 2.0 A MAX +12V (FAN_OUT), 1.0 A MAX
	OR	110 W CONVECTION COOLING
	DC 120Vmin - 300Vmax 4.0 A	V1: DC +24.0 to +54.0 V, 4.125 A MAX +5VSTBY, 1.0 A MAX +12V (FAN_OUT), 0.5 A MAX
		75 W CONVECTION COOLING
		V1: DC +12.0 to +24.0 V, 3.125 A MAX +5VSTBY, 1.0 A MAX +12V (FAN_OUT), 0.5 A MAX

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 cooling, unit with cover.

Each output power derate 2.5% per degree from 50°C to 70°C ambient temperature.

***TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):**

General - The units are 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

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

- *1. These components have 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. These power supplies have only been evaluated for use in a pollution degree 2 environment.
- *3. These power supplies were 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. These power supplies have 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 supplies are intended for use in other than Class I equipment.
- *6. The secondary outputs of the power supply are unearthed non-energy hazard SELV except for +24 V output for Model LPS174 and +54 V and +24 V outputs for Model LPS175. 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. These power supplies have been evaluated for use in 25°C, 50°C and 70°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. These power supplies are 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. These power supplies have been evaluated under a specified forced air-cooling and convection. Refer to ILL. 3 for details of forced air-cooling ventilation system.