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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 LPQ172 for use in Information Technology Equipment.

ELECTRICAL RATINGS:

MODEL	INPUT	OUTPUT	
LPQ172	AC 100 - 250 V 4.0 A 50 / 60 Hz OR DC 120Vmin - 300Vmax 4.0 A	FORCED AIR	
		V1:	DC +3.3 to +5.7 V, 30.0 A MAX
		V2:	DC + 12.0 V, 8.0 A MAX
		V3:	DC -12.0 to -15.0 V, 3.0 A MAX
		V4:	DC 3.3 to 25.0 V, 5.0 A MAX
			DC + 5 VSB, 0.2 A MAX
		CONVECTION COOLING	
		V1:	DC +3.3 to +5.7 V, 15.0 A MAX
		V2:	DC + 12.0 V, 6.0 A MAX
		V3:	DC -12.0 to -15.0 V, 1.5 A MAX
V4:	DC 3.3 to 25.0 V, 2.0 A MAX		
	DC + 5 VSB, 0.2 A MAX		

Maximum continuous output powers is 175 W with or without cover at min. 30 CFM forced.

Maximum continuous output powers is 110 W without cover at min. 30 CFM forced.

*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.

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 insulation have been evaluated by conducting Component Failure Tests 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 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. 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.
- *6. 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.
7. This power supply has been evaluated for use in 25°C and 50°C ambient.
8. Transformers T201, T202, T203 and L801 employ Class F electrical insulation system, while T701 employs Class B electrical insulation system.
9. The secondary DC output connector and input connector have not been evaluated for field connections.
- *10. This power supply is classified as Level 3 as defined by UL 60950-1, Second Edition, CAN/CSA C22.2 No. 60950-1-07.
11. This power supply has not been evaluated for end system mounting. Creepage and clearance requirements between primary parts of power supply and system chassis shall be considered in the end system.
12. This power supply has only been evaluated under a specific ventilation set-up. See ILL. 3 for details.
- *13. The reliability of protective bonding conductor in U-Base shall be evaluated per clause 2.6 of UL 60950-1, Second Edition, CAN/CSA C22.2 No. 60950-1-07 in the end system.