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REPORT

On

COMPONENT - POWER SUPPLIES, INFORMATION TECHNOLOGY EQUIPMENT
INCLUDING ELECTRICAL BUSINESS EQUIPMENT

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DESCRIPTION

PRODUCT COVERED:

USR, CNR Component - Switching Power Supplies, Models AA23300, DS550-3, DS450-3 and DS450-3-002 for use in Information Technology Equipment, including Electrical Business Equipment.

ELECTRICAL RATINGS:

MODEL	INPUT	OUTPUT
AA23300	100 - 240 V ac	DC +12 V, 44.5 A max.
	8 A	DC +3.3 Vsb, 4.9 A max.
	50 / 60 Hz	
DS550-3	100 - 240 V ac	DC +12 V, 45 A Max.
	8 A	DC +3.3 Vsb, 3.1 A Max.
	50 / 60 Hz	
DS450-3	100 - 240 V ac	DC +12 V, 37 A Max.
	8 A	DC +3.3 Vsb, 3.0 A Max.
	50 / 60 Hz	
DS450-3-002	100 - 240 V ac	DC +12 V, 37 A Max.
	8 A	DC +3.3 Vsb, 3.1 A Max.
	50 / 60 Hz	
DS450-3-001	100 - 240 V ac	DC +12 V, 37 A Max.
	8 A	DC +5 Vsb, 2.0 A Max.
	50 / 60 Hz	

Maximum continuous output power is 550 W for Models AA23300 and DS550-3, 450 W for Models DS450-3, DS450-3-002 and DS450-3-001.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE 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, Including Electrical Business Equipment, UL 60950-1, Second Edition, **with revision date October 14, 2014**, CAN/CSA C22.2 No. 60950-1-07, **Second Edition, with revision date October 14, 2014**.

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 Including Electrical Business 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 operational insulations 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. These power supplies have only been evaluated for use in 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 supplies are unearthed non-energy hazard SELV except for the +12 V output which is energy hazard SELV. Method 1 of Sub-clause 2.2.3.1 of 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 and 45°C and 50°C ambient.
8. Transformers T1 and T2 employ Class F electrical insulation system.
9. These power supplies were not evaluated for end system mounting.
10. The secondary DC output connector has not been evaluated for field connections.
11. These power supplies are classified as Level 5 as defined in UL 60950-1, Second Edition and CAN / CSA 60950-1-07.
12. There is no energy hazard on the output when the power supplies are removed from the system with the power cord intact because of the output disable (PS Kill) feature.
13. Power Supply, Models DS550-3, DS450-3 and DS450-3-002 and DS450-3-001. Can be operated in an elevation of maximum 3048 meters above sea level. Annex G of UL 60950-1, Second Edition, CAN/CSA C22.2 No. 60950-1-07, was considered in determining the clearance requirement.
14. **The following Production-Line tests are 100% conducted for these products: Earthing Continuity test and Electric Strength test.**