## File E186249 Project 06CA39933

September 5, 2006

REPORT

On

COMPONENT - POWER SUPPLIES, INFORMATION TECHNOLOGY EQUIPMENT

Astec International Limited Philippines Branch Quezon City 1110, Philippines

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DESCRIPTION

## PRODUCT COVERED:

USR, CNR Component - Switching Power Supply, Models DS850-9 and DS650-9 for use in Information Technology Equipment.

## **ELECTRICAL RATINGS:**

_	MODEL	INPUT	OUTPUT
_	DS850-9	100 - 240 V AC 12 A 50 / 60 Hz	+ 3.3 V aux 6 A max + 48 V dc 17.5 A max

Maximum Combined Output Power is 850 W.

Maximum Combined Output Power is 650 W.

## 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, UL 60950-1, 2nd Edition, 2014-10-14/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10.

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

- \*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, 2nd Edition, 2014-10-14/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10, Sub-clause 2.10 and Annex G (altitude requirement), which covers the end-use product for which the components were designed. The functional insulation has been evaluated by conducting Component Failure Test per Sub-clause 5.3.4(c) of UL 60950-1, 2nd Edition, 2014-10-14/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10.
- 2. These power supplies have only been evaluated for use in a pollution degree 2 environment.

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- 3. \*These power supplies were evaluated with the assumption that the power source is a TN power system as defined by UL 60950-1, 2nd Edition, 2014-10-14/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10.
- 4. A suitable fire, mechanical and electrical enclosure shall be provided by end use equipment.
- \*These power supplies have been evaluated for use in Class I equipment as defined in UL 60950-1, 2nd Edition, 2014-10-14/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 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. +48 V output of the power supply is unearthed energy hazard SELV, while + 3.3 Vaux is unearthed non-energy hazard SELV. Sub-clause 2.2.3.1 per \* UL 60950-1, 2nd Edition, 2014-10-14/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 were used to maintain the insulation of SELV from primary circuits.
- 7. These power supplies have been evaluated for use in 25°C and 50°C ambient.
- 8. Transformers T103, T104, T131, T107 and T402 employ Class F electrical insulation system.
- 9. The secondary output connector has not been evaluated for field connections.
- 10. \*These power supplies are classified Level 5 as defined by UL 60950-1, 2nd Edition, 2014-10-14/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10.
- 11. \*These power supplies can be operated in an elevation of maximum 3100 meters above sea level. Annex G of UL 60950-1, 2nd Edition, 2014-10-14/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 was used in determining the clearance requirement.
- 12. Result for discharge of capacitor for L-N and N-PE at T=1 second is 6V, further consideration should be considered in end use.