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Project 4788292316

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REPORT

on

COMPONENT - POWER SUPPLY FOR USE IN INFORMATION TECHNOLOGY
EQUIPMENT INCLUDING ELECTRICAL BUSINESS EQUIPMENT
COMPLEMENTARY LISTED TO
POWER SUPPLIES, AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY
EQUIPMENT

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TDK-Lambda corp.
Niigata, Japan

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D E S C R I P T I O NPRODUCT COVERED:

USR/ CNR, Component Power supplies, Models PF1000-360 and PF1000A-360 for use in information technology equipment including electrical business equipment. May be followed by suffixes indicated below.

GENERAL:

The units covered by this Report are switching type power supplies. They are provided with input and output terminals for connection to the end-use equipment.

RATINGS:

| <u>Electrical</u> Model | * Input, ac | | | Output, dc | |
|----------------------------|--------------------|----|-------|-------------------|-----|
| | V | A | Hz | V | A |
| PF1000-360 | 100-240 | 14 | 50/60 | 360 | 2.8 |
| PF1000A-360 | 200-240 | 10 | 50/60 | 360 | 4.2 |

Model Differences:

Model PF1000A-360 is the same as the basic Model PF1000-360, and is provided for marketing purposes.

Models with the suffix /PI are identical to the basic models described in this report, except that the corner studs are not threaded (in the basic models, the studs are threaded).

Models with the suffix "/EM" are the same as above except with addition of a reset function.

Models with the suffix /T, indicates the corner studs are non-threaded and differ from the standard models in inside diameter size by 0.1 mm.

Models with the suffix /SIM, indicates non safety changes.

Models with the suffix /SOA, indicates component changes in the enable circuit.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

* USR/CNR indicates investigation to UL 60950-1, 2nd Edition, **2014-10-14** (Information Technology Equipment - Safety - Part 1: General Requirements) and CSA C22.2 No. 60950-1-07, 2nd Edition, **2014-10** (Information Technology Equipment - Safety - Part 1: General Requirements).

USR/CNR indicates investigation to UL 62368-1, 2nd Edition, 2014-12-01 (Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements) and CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12-01 (Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements).

Use - For use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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

* 1. The equipment has been judged on the basis of the required creepage and clearances in the UL 60950-1, 2nd Edition, **2014-10-14** (Information Technology Equipment - Safety - Part 1: General Requirements) and CSA C22.2 No. 60950-1-07, 2nd Edition, **2014-10** (Information Technology Equipment - Safety - Part 1: General Requirements), Clause 2.10, and **UL 62368-1, 2nd Edition, 2014-12-01 (Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements), CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12-01 (Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements), Clause 5.4**, which would cover the end-use product for which the component was designed.

2. The equipment was evaluated with a TN-S power source as defined by UL 60950-1, 2nd Edition, **2014-10-14** (Information Technology Equipment - Safety - Part 1: General Requirements) and CSA C22.2 No. 60950-1-07, 2nd Edition, **2014-10** (Information Technology Equipment - Safety - Part 1: General Requirements).

3. This power supply has been investigated for basic insulation from input and output to the enclosure. The equipment supply shall be installed in compliance with the enclosure, mounting, creepage, casualty, markings and segregation requirements of the end-use application.

4. The equipment has been evaluated for use in a pollution Degree 2 environment.

5. A Temperature Test was conducted with the unit mounted to a heat sink. The temperature of the power supply base plate, at the heat sink, was 85°C. Consideration shall be given to measuring the temperature on power electronic components, inductors and transformer windings, when the power supply is installed in the end-use product and the end-use product heat sink, or the power supply base plate, exceeds 85°C.

6. This power supply shall be properly bonded to earth ground in the end-use product as this unit was investigated for Class I construction.

7. A Leakage Current Test shall be conducted during the end-product investigation.

8. This power supply has been tested with 20 A branch protection.

9. Clearance and creepage distances in the end product should be based on 340 V rms, 540 V pk.

10. Insulation between input and output has been evaluated as functional insulation.