

File E123535
Project 01ME12890

October 15, 2001

REPORT

ON

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

Westcor, Div. Of Vicor Corp.
Sunnyvale, CA

Copyright © 2001 Underwriters Laboratories Inc.

Underwriters Laboratories Inc. authorizes the above-named company to reproduce this Report provided it is reproduced in its entirety.

Underwriters Laboratories Inc. authorizes the above-named company to reproduce that portion of this Report consisting of this Cover Page through Page 2.

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component AC-DC Switching Power Supplies, PFC Micro, and PFC Micro-S Series, Model Pxa-bc-ddddd-e-ff.

| Item 0. Series Type | <u>Input Voltage</u> | <u>Max Output Power</u> |
|---------------------|--|-------------------------|
| x = S for Micro S | 115 Vac | 500 W |
| | 230 Vac or 300 Vdc | 600 W |
| x = C for Micro | 115 Vac | 500 W |
| | 230 Vac or 300 Vdc | 800 W |
| Item 1. | Number of Outputs a = Total number of outputs (note: 3 for PC or 6 for PS), rated 0-95 Vdc each | |
| Item 2. | Module Configuration b = Total number of VI-200 and/or VI-J00 Series DC/DC Converters c = Total number of 2 nd Gen FasTrack Series DC/DC Converters | |
| Item 3. | Factory assigned Code (Non-safety related) dddd = can be any alphanumeric combination or blanks | |
| Item 4. | Configuration Revision (Optional) e = can be any alphanumeric combination or blank (note: e = G for RoHS compliant) | |
| Item 5. | Micro description (Optional) ff = can be any alphanumeric combination or blank (note:MI for Mil COTs) | |

GENERAL CHARACTER AND USE:

The PFC Micro Models are built using up to six Recognized Component (QQGQ2) Vicor DC-DC switching power supplies, which provide reinforced insulation between their inputs and outputs.

The PFC Micro Models Pxa-bc-ddddd-e-ff Power Supplies are an enclosed assembly provided with an input connector and output connectors/terminals for connection to a single-phase power source. Made for building in, and used with Information Technology Equipment, Including Electrical business equipment.

ELECTRICAL RATING:

Inputs:

115-230 V ac, 47-500 Hz, 7.5 A.
300 V dc, 7.5 A

Outputs:

Up to six rated 0-95 V dc.

OUTPUT POWER:

Using PFC Micro - 500 Watts (100 V ac min input)
1-6 Outputs, 2 Slot
800 Watts (230 V ac)

Using PFC Micro-S - 500 Watts (100 V ac min input)
1-3 Outputs, 1 Slot
600 Watts (230 V ac)

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

USR/CNR indicates investigation to the U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, ANSI/UL60950-1-2011, dated December 19, 2011 and CAN/CSA C22.2 No. 60950-1-07, 2nd Edition + A1:2011 (MOD).

For use in (or with) complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - When installed in the end-use equipment, consideration shall be given to the following:

These components have been judged on the basis of the required spacings in the Standard for Safety of Information Technology Equipment, CAN/CSA C22.2 No. 60950-1-07, 2nd Edition + A1:2011 (MOD)/ ANSI/UL60950-1-2011, dated December 19, 2011, Sub. Clause 2.10, which would cover the component itself, if submitted for Listing. Minimum spacings between live parts of opposite polarity and between live and dead-metal parts shall be as indicated in Tables 2M and 2N in UL/CSA 60950-1. Spacings (creepages and clearances) are based on the provision of Basic Insulation.

1. The power supply should be installed in compliance with the enclosure, mounting, spacings, temperature, and casualty and segregation requirements of the ultimate application.

*2. The baseplate temperatures of the Vicor DC-DC converter switching power supplies should be measured in the end-use equipment, and should not exceed 100°C.

3. The acceptability of the input connector and output mating connectors/terminals relative to secureness, insulating materials and temperature should be considered in the end product evaluation.

4. This product has been evaluated as Class I, Component Supply for building-in.

5. Secondary outputs 2V-48V comply with SELV requirements; higher voltage outputs are non-SELV.

6. Outputs above 240VA are considered hazardous energy.

7. External fuse required. Bussman ABC-10 or a Littelfuse 505 Series rated 10A, or a 10A Listed fuse.

CONSTRUCTION DETAILS:

Refer to Section General.

MODEL DIFFERENCES:

Both units are identical. They are different in the number of outputs, the Module Complement and the total output power.

PFC Micro/2 Slot: (1-6 outputs) Each slot can accommodate the following:
2nd Gen FasTrak. 1 Maxi, or 2 Minis, or 3 Micro modules
or
1st Gen. 1 Full size (VI-200) or 2 Junior modules (VI-J00)

PFC Micro-S/1 Slot: (1-3 outputs) which can accommodate the following:
2nd Gen FasTrak. 1 Maxi, or 2 Minis, or 3 Micro modules
or
1st Gen. 1 Full size (VI-200) or 2 Junior modules (VI-J00)

MARKING

Optional marking for High leakage if frequency is above 60Hz on marking plate. Marking to state the following or equivalent "HIGH LEAKAGE CURRENT - Earth connection essential before connecting supply". Located adjacent to the equipment primary power connection. See Section General for additional marking.