

File E123535  
Project 01ME12890

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REPORT

ON

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

Westcor, Div. Of Vicor Corp.  
Sunnyvale, CA

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**DESCRIPTION**

## PRODUCT COVERED:

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

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 <sup>nd</sup> 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) f = can be any alphanumeric combination or blank	

## 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-dddd-e-f 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 Standard for Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA C22.2 No. 60950-00, UL 60950, CAN/CSA C22.2 No. 950-95, UL 1950 Third Edition, and the Standard for Information Technology Equipment Including Electrical Business Equipment, UL 60950-1:2003, First Edition; CAN/CSA C22.2 No. 60950-1-03.**

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 CAN/CSA C22.2 No. 60950-00, CAN/C22.2 No. 950-95, UL 1950 Third Edition, CAN/CSA C22.2 No. 60950-1-03, UL 60950-1.**

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 Autoranging Rectifier Module and 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.

## 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:  
**2<sup>nd</sup> Gen FasTrak. 1 Maxi, or 2 Minis, or 3 Micro modules**

or

1<sup>st</sup> 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:  
**2<sup>nd</sup> Gen FasTrak. 1 Maxi, or 2 Minis, or 3 Micro modules**

or

1<sup>st</sup> Gen. 1 Full size (VI-200) or 2 Junior modules (VI-J00)