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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 Supply, PFC Mini Series, Model PMw-xyq-zzz-r-v. The power supply is for use with data processing equipment, office appliances, and business equipment.

## PFC Mini Series Model PMw-xyq-zzz-r-v

w = Total number of outputs, maximum of 9, each output can be 0-95 V dc

x = Total number of VI-200 and/or VI-J00 Series DC/DC Converters

y = Total number of 2<sup>nd</sup> Gen Fastrack DC-DC Converters and/or discrete regulated outputs

q = Optional, standard part designator, non-safety related, any alphanumeric character or blank

r = Optional, denotes revision to original configuration if applicable, any alphanumeric or blank, r = G to denote RoHS compliance

z = Factory assigned code, non-safety related, can be any alphanumeric combination or blanks

v = Optional, denotes special model configurations if applicable

v = EL for extended length chassis, no change to rated output power

v = LNF for Low Noise Fan (reduced CFM). Output power de-rated for LNF models

v = LL for low leakage models

v = LLEL for low leakage models with extended length chassis

\*

## GENERAL CHARACTER AND USE:

The PFC Mini is built using up to six Recognized (QQAQ2) Vicor DC-DC switching power supplies which provide primary to secondary isolation. It is provided with input terminals for connection to a single phase power source.

This product was investigated under the Standard for Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA C22.2 No. 60950-00, UL60950, 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.

Outputs which are less than 60 V dc are SELV.

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

## ELECTRICAL RATING:

Model: PMw-xyq-zzz-r-v

## Inputs:

115-230 V ac, 10 A max, 47-500 Hz

300 V dc, 10 A max

## Outputs:

Up to six rated 0 - 95 V dc.

## OUTPUT POWER:

Using VI-200 Series and/or VI-J00 Series DC-DC Converters - 600 W Max.

Using Second Gen Fastrak Series DC-DC Converters -

800 W at 115 V ac input

1200 W at 230 V ac/300 V dc inputs (output voltages < 24)

1500 W at 230 V ac/300 V dc inputs (24 V dc output and higher)

ELECTRICAL RATING: (Low noise fan option)

**Model: PMw-xyq-zzz-r-LNF**

Inputs:

115-230 V ac, 10 A max, 47-500 Hz

300 V dc, 10 A max

Outputs:

Up to six rated 0 - 95 V dc

OUTPUT POWER:

Using VI-200 Series and/or VI-J00 Series DC-DC Converters -

600 W at 115 V ac input for all -LNF models

600 W at 230 V ac/300 V dc inputs for 5 V outputs

750 W at 230 V ac/300 V dc inputs for 12 V outputs

800 W at 230 V ac/300 V dc inputs for 15 V outputs

900 W at 230 V ac/300 V dc inputs for 24 V outputs

1100 W at 230 V ac/300 V dc inputs for 28 V outputs

1150 W at 230 V ac/300 V dc inputs for 48 V outputs

**ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):**

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

Special Considerations - The following items are considerations that were used when evaluating this product.

**USR/CNR indicates investigation to the U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA C22.2 No. 950-95 \*UL1950, Third Edition, including revisions through revision date March 1, 1998, which are based on the Fourth Amendment to IEC 950, Second Edition. Including Electrical Business Equipment, CAN/CSA C22.2 No. 60950-00, UL60950, 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.**

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

1. **This component has been judged on the basis of the required spacings in the Standard for Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA C22.2 No. 60950-00, UL60950, CAN/CSA C22.2 No. 950-95, UL 1950 Third Edition. Including Electrical Business Equipment, 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.**
2. The power supply should be installed in compliance with the enclosure, mounting, spacings, temperature, casualty and segregation requirements of the ultimate application.
3. The Normal Temperature Test should be conducted with the unit mounted in the end-use equipment.
4. Secondary circuits have not been investigated for secondary interconnection or user accessibility.
5. This product has been evaluated as Class I, Component Supply for building-in.
6. The input and output terminals are not acceptable for field connections and are only intended for connection to mating connectors of internal wiring inside the end-use machine. The acceptability of these and the mating connectors relative to secureness, insulating materials, and temperature should be considered.