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Project 96ME17406

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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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D E S C R I P T I O N

PRODUCT COVERED:

USR, CNR - Component - Switching Power Supplies, Models Mpaa-7bbcccccc-v-xx (PFC MegaPAC Series), model designations particularly identified as follows:

Model Mpaa-7bbcccccc-v-xx (Mp may be replaced by IMp)

- Item 1. Module Configuration
p = P when populated with 1st Gen Vicor Modules **and/or FlexPACs**
p = X when populated with 2nd Gen and / or 1st and 2nd Gen Modules
and/or 1st and 2nd Gen Modules and FlexPACs
- Item 2. Number of Outputs
aa = any number 0 - **32**
- Item 3. Number of Modules **and FlexPACs**
bb = any number 0 - 16
- Item 4. Factory assigned Code (Non-safety related, customer specific)
cccccc = any alphanumeric combination or blanks
- Item 5. MegaPAC configuration Revision (Optional)
v = any alphanumeric character or blank (note: v = G for RoHs)
- Item 6. MegaPAC description (Optional)
xx can be any alphanumeric combination or blanks
(note: xx may be used to designate chassis color)
(note: xx = EL for extended length, xx = LL for low leakage)

ELECTRICAL RATING:

Input: 100-240 V or 115-230 V, 47-500 Hz, 15 A; 300 V dc, 15 A.

Output: up to 95 V, 240/320 A, power as described in tabulation below.

#

Output (W)	@	60 Hz Input (V)	Corresponding Input Current (A)
1200		100	15.5
1000		100	12.7
1200		120	12.7
1600		200	10.0
1600		190	10.5
1600		220	9.1
1600		240	8.4
2400		190	15.0
2400		200	14.2
2400		220	12.9
2400		240	11.8

Power output rating based on min 38 cfm forced air cooling as provided by incorporated fan.

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 Standard for Information Technology Equipment, Including Electrical Business Equipment, UL 60950-1:2003, First Edition; CAN/CSA C22.2 No. 60950-1-03, **First Edition**.

The products are formed from up to sixteen Recognized Component dc-dc converter modules, and a common front end assembly, which front end includes a forced-air cooling provision. The modules are selected for the desired output parameters.

Transformers incorporate a Class 105 temperature-rated insulation system.

These components are single insulated with provision for grounding (i.e., Class I), the bonding terminal has not however been qualified as a protective grounding point.

For components with rated output of 48 V or less, the output is qualified as SELV (safety extra low voltage).

Conditions of Acceptability - The products are not acceptable for Listing as:

* 1. These components have been judged on the basis of the required spacings in CAN/CSA C22.2 No. 60950-1-03, UL60950-1, **First Edition**.

1A. An enclosure, preventing user contact with hazardous parts and providing protection for the circuit items, is not provided.

2. Input and output terminals are not suitable for accommodating field applied wiring.

3. Primary (input) overcurrent protection [20 A max] is not provided.

4. When the products are powered from sources of frequency greater than 63 Hz, leakage current limits may exceed allowable values for products connected to the source of supply with other than industrial type sockets and plugs.

5. Complete accompanying documentation is not provided.

6. These power supplies must be investigated for use with patient connected circuits in the end product with respect to spacings and leakage.