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Project 03ME06490

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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, FlatPAC-EN Series, Model FLA-bc-dddddd-ee-xx.

Item 0. Number of Outputs

a = any number 0-4 (note: each output can be rated 0-95 V dc)

Item 1. Module Configuration

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

c = Total number of 2nd Gen Series DC/DC Converters.

Item 2. Factory assigned Code (Non-safety related)

dddddd = any alphanumeric combination or blanks

Item 3. FlatPAC configuration Revision (Optional)

ee = any alphanumeric combination or blanks (note: ee = G for RoHS compliant)

Item 3. FlatPAC description (Optional)

xx = Optional, any alphanumeric combination or blanks

(note: xx = LL for low leakage models)

(note: xx = E for extended temperature version)

GENERAL CHARACTER AND USE:

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

The FlatPAC-EN Model FLA-bc-dddddd-ee-xx 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.

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ELECTRICAL RATING:

Inputs:

115/230 V ac, 47-63 Hz, 9/5 A.
300 V dc, 3 A

Outputs:

Up to four rated 2-48 V dc.

OUTPUT POWER:

260Watts max @ 90V ac
340Watts max @ 95V ac
450Watts max @ 100V ac
500Watts max @ 105V ac
500Watts max @ 115V ac
500Watts max @ 125V ac
500Watts max @ 132V ac
400Watts max @ 180V ac
450Watts max @ 185V ac
500Watts max @ 190V ac
500Watts max @ 195V ac
500Watts max @ 200V ac
500Watts max @ 205V ac
500Watts max @ 215V ac
500Watts max @ 225V ac
500Watts max @ 235V ac
500Watts max @ 245V ac
500Watts max @ 255V ac
500Watts max @ 265V 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, 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.

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:

1. **The power supply should be installed in compliance with the enclosure, mounting, spacings, temperature, and casualty and segregation requirements of the ultimate application. These components have been judged on the basis of the required spacings in CAN/CSA C22.2 No.60950-00, CAN/CSA C22.2 No. 950-95, UL 1950 Third Edition, CAN/CSA C22.2 No. 60950-1-03, UL60950-1.**
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 85°C for 1st Gen VI-200's and should not exceed 100°C for 1st Gen VI-J00's and 2nd Gen Micro, Mini, Maxi families.
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. VI-200 1st Gen DC-DC Secondary outputs 2V-60V comply with SELV requirements; VI-J00 1st Gen DC-DC Secondary outputs 2V-40V comply with SELV requirements; Micro, Mini, Maxi 2nd Gen DC-DC Secondary outputs 2V-48V comply with SELV requirements; higher voltage outputs are non-SELV.

CONSTRUCTION DETAILS: Refer to Section General.

MODEL DIFFERENCES:

The FlatPAC-EN units use the same Front End Circuitry but differ in the output configurations. They are different in the number of outputs, the Module Complement and the total output power.

FlatPAC-EN:(2 outputs) can accommodate the following:

2nd Gen. Mini, 2nd Gen. Maxi
or
2nd Gen. Mini, 1st Gen. VI-200
or
1st Gen. VI-J00, 1st Gen. VI-200
or
1st Gen. VI-J00, 2nd Gen. Maxi

FlatPAC-EN:(3 outputs) can accommodate the following:

2nd Gen. Mini, Qty 3
or
1st Gen. VI-J00 and 2nd Gen. Mini, Qty 2
or
1st Gen. VI-J00, Qty 3
or
2nd Gen. Mini and 1st Gen. VI-J00, Qty 2

FlatPAC-EN:(4 outputs) can accommodate the following:

2nd Gen. Mini and 2nd Gen. Micro, Qty 3
or
1st Gen. VI-J00 and 2nd Gen. Micro, Qty 3