

File E135493
Project 01ME22852

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REPORT
on

COMPONENT-POWER SUPPLIES

Vicor Corporation
Andover, MA

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D E S C R I P T I O NPRODUCT COVERED:

* Component - Power Supply, 2nd Gen, AC-DC Configurable Front End, VIPAC Model VP-abbbbbcd. The power supplies are for use with data processing equipment, office appliances, and Electrical Business Equipment.

GENERAL CHARACTER AND USE:

*The Model Power Supplies are built incorporating 1 QQGQ2 2nd Generation AC-DC input module, Vicor Corp. Series part number FARMwxyz, 1-3 QQGQ2 2nd Generation DC-DC Converter Modules Vicor Corp. part number Viiisxyzzzw, which provide primary to secondary isolation. It can be configured by selecting the desired output configuration described in the nomenclature section of this report (up to three outputs), See Ill 1. Units share the same front-end primary circuitry. They are intended to be factory wired.

*

NOMENCLATURE BREAKDOWN:

Refer to Ill. 1

*ELECTRICAL RATING : Input 115/230 Vac 14.8 A max, 47-63 Hz

Output: Refer to Ill 1

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

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

*This product was investigated under the Standard for Information Technology Equipment, Including Electrical Business Equipment, **UL 60950-1:2003, First Edition; CAN/CSA C22.2 No 60950-1-30.**

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.
2. The baseplate temperatures should be measured in the end-use equipment, and should not exceed 100°C.
3. The input and output terminals are not acceptable for field connections and are only intended for connection to mating connectors of the internal wiring inside the end-use system. The acceptability of these 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. The unit should be installed within an overall enclosure so that uninsulated current carrying parts are suitably enclosed.
7. When baseplate is accessible, ground baseplate to earth/chassis ground in end product.
8. The unit is provided with reinforced isolation between primary and secondary and Basic insulation from primary to chassis.
9. An investigation of the protective bonding terminals has not been conducted.

CONSTRUCTION DETAILS: Refer to section General.

Model Differences - All models are similar, but different in the amount of models provided, size, number of outputs and output ratings. Refer to Ill. 1.

Models are described as follows:

<u>VIPAC Series</u>	<u>No. of Modules</u>	<u>Max. Output Current</u>	<u>Max. Power</u>	<u>Size(in)</u>
1 Micro	One	25A	150W	3.15 x 6.8
2 Micro	Two	50A	300W	3.15 x 6.8
1 Mini	One	50A	250W	3.15 x 6.8
1 Maxi	One	80A	500W	3.15 x 9.1
3 Micro	Three	75A	450W	4.96 x 6.8
2 Mini	Two	100A	500W	4.96 x 6.8
2 Maxi	Two	160A	900W	4.96 x 9.1

VP-abbbbbcd 2 nd Gen VIPAC Configuration
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Output voltage		2V	3.3V	5V	12V	15V	24V	28V	36V	48V	Total Power (W)	
Micro	# Outputs	DC-DC Module Viiiisxxyzzzw Output Power										
a = G	Single	50	75	100	150	150	150	150	150	150	150	
a = D	Single //	100	150	200	300	300	300	300	300	300	300	300
		50	75	100	150	150	150	150	150	150	150	300
	Dual	50	75	100	150	150	150	150	150	150	150	
a = A	Dual //	100	150	200	300	300	300	300	300	300	300	450
		50	75	100	150	150	150	150	150	150	150	
	Triple	50	75	100	150	150	150	150	150	150	150	450
		50	75	100	150	150	150	150	150	150	150	
		50	75	100	150	150	150	150	150	150	150	
		50	75	100	150	150	150	150	150	150	150	

Mini		DC-DC Module Viiiisxxyzzzw Output Power										
	# Outputs	2V	3.3V	5V	12V	15V	24V	28V	36V	48V	Total Power (W)	
a = E	Single	100	150	200	250	250	250	250	250	250	250	
a = B	Single //	200	300	400	500	500	500	500	500	500	500	500
		100	150	200	250	250	250	250	250	250	250	500
	Dual	100	150	200	250	250	250	250	250	250	250	

Maxi		DC-DC Module Viiiisxxyzzzw Power									
	# Outputs	2V	3.3V	5V	12V	15V	24V	28V	36V	48V	Total Power (W)
a = F	Single	160	264	400	500	500	500	500	500	500	500
a = C	Single //	320	528	800	900	900	900	900	900	900	900
		160	264	400	500	500	500	500	500	500	500
	Dual	160	264	400	500	500	500	500	500	500	500

Input: 115/230 Vac

VP = AC-DC VIPAC designator

a = VIPAC configuration, see above (A,B,C,D,E,F,G)

b = 0-9 represents a customer specific part number

c = 0-9 represents an error check for the customer specific part number

d = Optional, E for RoHs compliant, or blank for non-RoHs

Example: VP-A1234567E

A = Triple Output, 3 Micro size DC-DC modules, 450Wmax

Output #1 = V300C12C150B3, 12Vdc/150W

Output #2 = V300C24C150B3, 24Vdc/150W

Output #3 = V300C48C150B3, 48Vdc/150W

bbbbbb = 123456, c = 7

E = RoHs compliant