

SPECIFIC TECHNICAL CRITERIA

UL 60950-1, First Edition Information technology equipment - Safety- Part 1: General Requirements	
Report Reference No.....	E135493-A2-UL-1
Compiled by	Gerard Soprych
Reviewed by	David Keen
Date of issue	2008-06-17
Standards	UL 60950-1, 1st Edition, 2006-07-07 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-03, 1st Edition, 2006-07 (Information Technology Equipment - Safety - Part 1: General Requirements)
Test procedure	Component Recognition
Non-standard test method	N/A
Test item description	AC/DC Power Supply
Trademark	Vicor
Model and/or type reference	PFC FlatPAC: VE-CMU1-CM
	See Miscellaneous Enclosure for Family Tree.
Rating(s)	Rated Input: 85-264 Vac 47-63 Hz 7.0 A max. Rated Output Wattage: 575W max.

Particulars: test item vs. test requirements	
Equipment mobility	for building-in
Operating condition	continuous
Mains supply tolerance (%)	85-264 Vac
Tested for IT power systems	No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	Class I (earthed)
Mass of equipment (kg)	1.8
Protection against ingress of water	IP X0

Possible test case verdicts:

- test case does not apply to the test object : N / A
- test object does meet the requirement : Pass
- test object does not meet the requirement : Fail (acceptable only if a corresponding, less stringent national requirement is "Pass")

General remarks:

- "(see Enclosure #)" refers to additional information appended to the Test Report
- "(see appended table)" refers to a table appended to the Test Report
- Throughout the Test Report a point is used as the decimal separator

GENERAL PRODUCT INFORMATION:	
CA1.0	Report Summary
CA1.1	N/A
CB1.0	Product Description
CB1.1	The PFC FlatPAC is a configurable Power Factor corrected AC-DC power supply that incorporates an EMI filter, a Vicor VE-HAM front end module, and a Vicor 2nd Gen. Fastrak Maxi size DC-DC converter. The PFC FlatPAC output voltage can range from 3.3V to 54V with a maximum output power of 575W max.
CC1.0	Model Differences
CC1.1	N/A
CD1.0	Additional Information
CD1.1	N/A
CE1.0	Technical Considerations
CE1.4	The product is intended for use on the following power systems: TN
CE2.0	The product was submitted and tested for use at the maximum case temperature permitted by the manufacturer's specification of 85°C.
CF1.0	Engineering Conditions of Acceptability
CF1.1	For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. When installed in an end-product, consideration must be given to the following:
CF1.2	The following Production-Line tests are conducted for this product: Electric Strength
CF1.3	The end-product Electric Strength Test is to be based upon a maximum working voltage of: Primary-Earthed Dead Metal: 250 Vrms, 400 Vpk, Primary-SELV: 250 Vrms, 400 Vpk
CF1.5	The following secondary output circuits are SELV: All
CF1.6	The following secondary output circuits are at hazardous energy levels: All
CF1.11	The power supply terminals and/or connectors are: Not investigated for field wiring
CF1.12	The maximum investigated branch circuit rating is: 20 A
CF1.13	The investigated Pollution Degree is: 2
CF1.15	Proper bonding to the end-product main protective earthing termination is: Required
CF1.16	An investigation of the protective bonding terminals has: Not been conducted
CF1.19	The following end-product enclosures are required: Mechanical, Fire, Electrical

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Company: Vicor Corporation, 25 Frontage Road Andover, MA 01810 USA

<p style="text-align: center;">PFC FlatPAC Family Tree VE - CMUw - xy - z</p>

VE Product Type

VI = Vicor, VE = Vicor RoHs

w Output Voltage (Vdc)

Y = 3.3 V	L = 28 V
0 = 5.0 V	J = 36 V
1 = 12 V	4 = 48 V
2 = 15 V	G = 54 V
3 = 24 V	

x Product Grade

E = Economy	0C to + 85C case
C = Commercial	0C to + 85C case
I = Industrial	-30C to + 85C case

y Output Current / Output Power

When Vout ≤ 5v	When Vout > 5V
S = 80 A	M = 575 W
	Q = 400 W

z Customer Option

Non-safety related, any alphanumeric combination up to 2 characters or blanks

Example

VE-CMU1-CM

VE = Vicor RoHS, 1 = 12 Vout, C = Commercial, M = 575 W, z = blank

License Conditions:

1. Maximum case temperature is 85 C.
2. Maximum output power is 575W. See user's guide for de-rating information.