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ELECTRONICS

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Jameco Part Number 1468385

## DESCRIPTION

## PRODUCT COVERED:

USR/CNR - Switching Power Supply, Models PFC375-Series and SP630 with suffix F, or G, or M, SXXX, or SXXXG, or ZXXX, ZXXXG where X can be 0-9, denoting non-safety critical options.

## ELECTRICAL RATINGS: Optional

Model	V	Input		Output	
		A	Hz	V	A
PFC375-1005	85-250	6	50/60	5	40
PFC375-1012	85-250	6	50/60	12	30
PFC375-1015	85-250	6	50/60	15	25
PFC375-1024	85-250	6	50/60	24	15
PFC375-1028	85-250	6	50/60	28	15
*PFC375-1048	85-250	6	50/60	48	7.8
PFC375-3000	85-250	6	50/60	5	40
				12	10
				12	6
PFC375-3001	85-250	6	50/60	5	40
				15	10
				15	6
PFC375-3002	85-250	6	50/60	5	40
				12	10
				5	6
<b>PFC375-3004S111</b>	<b>85-250</b>	<b>6</b>	<b>50/60</b>	<b>5</b>	<b>30</b>
				12	1
				24	1
PFC375-4000	85-250	6	50/60	5	40
				12	10
				12	6
				5	3

Model	Input			Output	
	V	A	Hz	V	A
PFC375-4001	85-250	6	50/60	5	40
				12	10
				12	6
				12	3
PFC375-4002	85-250	6	50/60	5	40
				12	10
				12	6
				24	3
PFC375-4004	85-250	6	50/60	5	40
				12	10
				15	4
				15	4
PFC375-4005	85-250	6	50/60	5	40
				12	10
				24	4
				24	3
PFC375-4200, -4200FS152	85-250	6	50/60	24	10
				5	10
				12	4
				12	4
PFC375-4201	85-250	6	50/60	24	10
				5	10
				15	4
				15	4
PFC375-4005S128	85-250	6	50/60	5	40
				24	5
				48	4
PFC375-4500	85-250	6	50/60	5	50
				12	10
				12	6
				5	3
PFC375-4500FS164	85-250	6	50/60	5	50
				12	10
				12	6
				5.2	5

Model	Input			Output	
	V	A	Hz	V	A
PFC375-S146	85-250	6	50/60	5	40
				30	3
				15	6
				15	4
PFC375-S165	85-250	6	50/60	5	50
				12	10
				12	6
				5.2	3
SP630	96-240	4.5	50/60	27	13

Maximum 375 W continuous output with 300 lfm forced air cooling applied to the input section of the power supply.

For the SP630 only, maximum 350 W continuous output with 300 lfm air flow applied across the power supply.

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

Use - For use only in (or with) complete 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, CAN/CSA C22.2, No. 60950-1-03 \* UL 60950-1, First Edition, dated April 1, 2003.**

The component was submitted by the manufacturer for use in a maximum air ambient of 50°C.

The equipment is considered: For building in, Class I (earthed), pluggable Types A and B, intended for use on a TN power system.

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 Safety of Information Technology Equipment, CSA C22.2, No. 60950-1-03\*UL 60950-1, First Edition, dated April 1, 2003, Sub-Clause 2.10, which would cover the component itself if submitted for Listing.**
2. All secondary output circuits are SELV.
3. The terminals and connectors are suitable for factory wiring only.
4. The power supply shall be properly bonded to the main protective earthing termination in the end product.
5. Magnetic device(s) (e.g. transformer, inductor) T1 on the Mother Board employs an Unlisted Component (OBJY3) electrical insulation system designated Class F. T2, T3, T4, T5, T6 on the Mother Board and T1 on the PFC Board employ an Unlisted Component (OBJY3) electrical insulation system designated Class B.
6. The equipment has been evaluated for use in a Pollution Degree 2 environment.
7. The products were tested on a 20 A branch circuit. If used on a branch circuit greater than this, additional testing may be necessary.
8. Tests performed on Model PFC375-S165 were conducted with the unit installed in the host equipment (VMX200) chassis. Heating tests shall be performed if installed in equipment other than Model VMX200.

CONSTRUCTION DETAILS:

See Section General for additional details.

Electrical Ratings - Not required.

Model Differences - PFC375-4001 is the base model.

- PFC375-4000 - Same as PFC375-4001, except for a resistor and a potentiometer that is removed from Vo4 output.
- PFC375-4002 - Same as PFC375-4001, except Vo4 is a 24 V dc, changed output chokes, and capacitors.
- PFC375-4004 - Same as PFC375-4001, except Vo3 and Vo4 outputs are set to 15 V dc.
- PFC375-1005 - Same as PFC375-4001, except Vo2, Vo3, and Vo4 is not unstuffed.
- PFC375-3000 - Same as PFC375-4001, except Vo4 is not unstuffed.
- PFC375-3001 - Same as PFC375-3000, except Vo2 and Vo3 is set to 15 V dc.
- PFC375-3002 - Same as PFC375-3000, except Vo3 output is changed to 5 V dc, changed output inductors to capacitors.
- PFC375-4201 - Second Base Model - 24 V dc main.
- PFC375-4200 - Same as PFC375-4201, except Vo3 and Vo4 set to 12 V dc.
- PFC375-1024 - Same as PFC375-4201, except Vo2, Vo3 and Vo4 is not stuffed.
- \* • PFC375-1028 - Same as PFC375-1024, except for secondary changes.

# C E R T I F I C A T E

No. B 04 05 24238 519



**Holder of Certificate:** Power-One, Inc.

740 Calle Plano  
Camarillo, CA 93012-8583  
USA

**Production  
Facility(ies):**

24260, 36080

**Certification Mark:**



**Product:**

**Power supply  
AC/DC Switching Power Supplies**

**Model(s):**

**1) PFC375 Series  
2) PFC500 Series**

**Parameters:**

Rated Input Voltage:	85 - 250 V AC
Rated Input Current:	1) 6 A, 2) 7 A
Rated Input Frequency:	50 / 60 Hz
DC Outputs:	See Attachment
Protection Class	I

When installing the equipment, all requirements of the below mentioned standard must be met.


**Tested according to:**

EN 60950-1:2001  
IEC 60950-1:2001

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. See also notes overleaf.

**Test report no.:**

095-232962-100

  
**Date,** 2004-05-13

Page 1 of 2



**134835**

TÜV AMERICA INC. • 5 Cherry Hill Drive • Danvers, MA 01923 USA  
TÜV Süddeutschland Group

**Attachment to Certificate B 04 05 24238 519  
For Power-One Inc.**

**General product information:**

The PFC375 and PFC500 series are open-frame type AC / DC Switching Power Supplies.

The models require:

- 1) A suitable electrical and fire enclosure at end use.
- 2) A reliable ground (Protective Earth) connection at end use.
- 3) External 300 lfm air cooling (minimum) – unless option F selected
- 4) Maximum operating ambient of 50°C

All models may be followed by suffix SXXX where X is a numbers 0-9 (custom configurations), denoting non-safety-critical options. All models may be followed by a combination of suffix letters D, F and/or M, where D= Oring diodes on output, F= Optional fan included, M= Metric hardware.

**Ratings:**

Model	Output #1		Output #2		Output #3		Output #4		Maximum output (W) *)
	V DC	A	V DC	A	V DC	A	V DC	A	
PFC375-									
1005	5	40	—	—	—	—	—	—	200
1012	12	30	—	—	—	—	—	—	360
1015	15	25	—	—	—	—	—	—	375
1024	24	15	—	—	—	—	—	—	360
1028	28	13.4	—	—	—	—	—	—	375.2
1048	48	7.8	—	—	—	—	—	—	374.4
3000	5	40	12	10	12	6	—	—	375
3001	5	40	15	10	15	6	—	—	375
3002	5	40	12	10	5	6	—	—	375
3004	5	40	12	10	24	6	—	—	375
4000	5	40	12	10	12	6	5	3	375
4001	5	40	12	10	12	6	12	3	375
4002	5	40	12	10	12	6	24	3	375
4004	5	40	12	10	15	4	15	4	375
4005	5	40	12	10	24	4	24	3	375
4200	5	10	24	10	12	4	12	4	375
4201	5	10	24	10	15	4	15	4	375
4500	5	50	12	10	12	6	5	3	375
3004S111	5	30	12	1	24	1	—	—	186
S165	5	50	12	10	12	6	5.2	3	375
PFC500-									
1024	24	21	—	—	—	—	—	—	500
1028, -S205	28	17.9	—	—	—	—	—	—	500
1048	48	10.4	—	—	—	—	—	—	500

\*) With 300 lfm airflow.







Ref. Certif. No.

DE 3 - 51476

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST  
CERTIFICATES FOR ELECTRICAL EQUIPMENT  
(IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE  
CERTIFICATS D'ESSAIS DES EQUIPEMENTS  
ELECTRIQUES (IECEE) METHODE OC

## CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product  
*Produit*

AC/DC Switching Power Supplies

Name and address of the applicant  
*Nom et adresse du demandeur*

Power-One, Inc.  
740 Calle Plano  
Camarillo, CA 93012 USA

Name and address of the manufacturer  
*Nom et adresse du fabricant*

Power-One, Inc.  
740 Calle Plano  
Camarillo, CA 93012 USA

Name and address of the factory  
*Nom et adresse de l'usine*

See Attachment page 2

Rating and principal characteristics  
*Valeurs nominales et caractéristiques principales*

Input Voltage: 85 - 250 V AC  
Input Current: PFC375: 6 A  
PFC500: 7 A  
Input Frequency: 50 / 60 Hz  
DC Outputs: See Attachment page  
Protection Class: I

Trade mark (if any)  
*Marque de fabrique (si elle existe)*

Power-One

Model/type Ref.  
*Ref. de type*

PFC375 and PFC500 series

Additional information (if necessary)  
*Information complémentaire (si nécessaire)*

See Attachment page 1

A sample of the product was tested and found  
to be in conformity with  
*Un échantillon de ce produit a été essayé et a été  
considéré conforme à la*

**PUBLICATION**  
IEC 60950-1:2001

**EDITION**  
First

as shown in the Test Report Ref. No.  
which form part of this certificate  
*comme indiqué dans le Rapport d'essais numéro de  
référence qui constitue une partie de ce certificat*

TÜV Product Service  
095-232962-000

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

Department: ELSUSSD  
Date: 2002-07-17  
CB 02 07 24238 305

**TÜV**  
PRODUCT SERVICE

TÜV PRODUCT SERVICE GMBH · Certification Body · Ridlerstrasse 65 · D-80339 München

**Attachment to Certificate DE 3 – 51476  
For Power-One Inc.**

**General product information:**

The PFC375 and PFC500 series are open-frame type AC / DC Switching Power Supplies.

The models require:

- 1) A suitable electrical and fire enclosure at end use.
- 2) A reliable ground (Protective Earth) connection at end use.
- 3) External 300 lfm air cooling (minimum) – unless option F selected
- 4) Maximum operating ambient of 50°C

All models may be followed by suffix SXXX where X is a numbers 0-9 (custom configurations), denoting non-safety-critical options. All models may be followed by a combination of suffix letters D, F and/or M, where D= Oring diodes on output, F= Optional fan included, M= Metric hardware.

**Ratings:**

Model	Output #1		Output #2		Output #3		Output #4		Maximum output (W) *)
	V DC	A	V DC	A	V DC	A	V DC	A	
PFC375-									
1005	5	40			—		—		200
1012	12	30			—		—		360
1015	15	25			—		—		375
1024	24	15			—		—		360
1028	28	13.4			—		—		375.2
1048	48	7.8			—		—		374.4
3000	5	40	12	10	12	6			375
3001	5	40	15	10	15	6			375
3002	5	40	12	10	5	6			375
3004	5	40	12	10	24	6			375
4000	5	40	12	10	12	6	5	3	375
4001	5	40	12	10	12	6	12	3	375
4002	5	40	12	10	12	6	24	3	375
4004	5	40	12	10	15	4	15	4	375
4005	5	40	12	10	24	4	24	3	375
4200	5	10	24	10	12	4	12	4	375
4201	5	10	24	10	15	4	15	4	375
4500	5	50	12	10	12	6	5	3	375
3004S111	5	30	12	1	24	1			186
S165	5	50	12	10	12	6	5.2	3	375
PFC500-									
1024	24	21			—		—		500
1028	28	17.9			—		—		500
1048	48	10.4			—		—		500

\*) With 300 lfm airflow.

**Attachment to Certificate DE 3 – 51476  
For Power-One Inc.**

Factories:

- 1) Power-One Inc. 740 Calle Plano, Camarillo, CA 93012, USA
- 2) Poder Uno de Mexico, S.A., Calzada Constitucion/Calle Colombia, San Luis R.C., Sonora, Mexico C.P.83420
- 3) Power Electronics, Edificio A3/A4, Zona Franca Las Americas, Santo Domingo, Dominican Republic
- 4) Power Electronics, Isabela Industrial Park, Rd. P.R. 112 KM 2.3, PO Box 1572, Isabela, PR 00662, Puerto Rico



*[Handwritten signature]*



## ***Declaration of Conformity***

### ***CE MARKING***

We, **Power-One, Inc., 740 Calle Plano, Camarillo, CA. 93012 USA**  
declare under our sole responsibility that the products;

**Power Supply Model: PFC375 Series**

to which this declaration relates, is/are in compliance with the following document(s):

Quality Standard(s): **ISO 9001, EN 29001**

Directive: **DIR 73/23/EEC, Low Voltage Directive**

Product Safety Standard(s): **EN 60950-1: 2001**  
**IEC 60950-1: 2001**

(Licensed by a Notified Body to the European Union )

These component level power supplies are intended exclusively for inclusion within other equipment by an industrial assembly operation or by professional installers per the Installation Instructions provided with the power supplies. The power supply is considered Class I and must be connected to a reliable earth grounding system.

*(Manufacturer)*

Robert P. White Jr.  
Product Safety Manager

**Camarillo, Ca.**

*(Place)*

**March 17, 2003**

*(Date)*