

DESCRIPTION

PRODUCT COVERED:

USR, CNR: Component - Switching Power Supply (Chassis), Information Technology Equipment, Including Electrical Business Equipment, Models RPM5XS and RMM5XS, series where X represents a series of alphanumeric characters corresponding to output modules and S, optional, represents a series of alphanumeric characters.

ELECTRICAL RATINGS: Optional

Model	Input				Output Watts	Air Flow (Direction)
	V	A	Hz			
RPM5XS, RMM5XS	230	3 ϕ	20/ ϕ	50-60	4000	Conventional airflow
	or 230	3 ϕ	20/ ϕ	50-60	2500	Conventional airflow
	or 230	3 ϕ	20/ ϕ	50-60	3200	Reversed airflow
	or 230	1 ϕ	28/ ϕ	50-60	2800	Conventional airflow

GENERAL:

The above power supply chassis provide a 300 V dc buss which supplies the output modules and the control circuitry such as bias/sync and EMI filtering. Up to 5 modules provided. Output modules are (QQGQ2), Power One Inc., modules from E131905, Vol. 1, Secs. 81 through 85.

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.

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

USR indicates investigation to the U.S. Standard for Safety of Information Technology Equipment, CSA C22.2, No. 60950 * UL 60950, Third Edition, dated December 1, 2000.

The equipment is considered: Class I (earthed), intended for use on a TN power system.

Disconnect Device - To be determined in the end product.

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 the Safety of Information Technology Equipment, CSA/UL 60950, Third Edition, dated December 1, 2000, Sub-Clause 2.10, which would cover the component itself if submitted for Listing.
2. The terminals and connectors have not been evaluated for field wiring.

3. The power supply shall be properly bonded to the main protective earthing termination in the end product.
4. Magnetic device(s) (e.g. transformer, inductor) T3-7, L1 (input), L2, L1 (bias), and T1 (bias) employ an (OBJY3) electrical insulation system designated Class B, B, B, F, and F, respectively. All others employ Class A unless otherwise noted.
5. The equipment has been evaluated for use in a Pollution Degree 2 environment.
6. A suitable electrical and fire enclosure shall be provided.
7. The products were tested on a 20 A branch circuit, except a 30 A branch circuit was used for single-phase units. If used on a branch circuit greater than this, additional testing may be necessary.
8. The marking requirements of UL 60950, Sub-clauses 1.7.9 and 3.4.11 shall be considered in the end-use product.
9. Accessibility to hazardous voltage shall be considered in the end-use product. Unused input terminals in single phase units are connected internally and are at hazardous voltage levels.
10. The maximum working voltage present is 357 V rms; 616 V pk. The Electric Strength Tests in the end product shall be based on this value.

Certificate

No: B 02 09 24238 326



Power-One, Inc.

740 Calle Plano
Camarillo, CA 93012-8593
USA

with production facility(ies)
24238 24258 24260 36080 25768

is authorized to label the following products with the
certification mark E20
as shown in the certification mark list. See also notes overleaf.

Product: Netzgeräte (Schaltnetzteile)
Switching Power Supplies - High Power Chassis

Model: RPM5 / RMM5
See attachment pages for configurations

Parameters:

Rated Input Voltage:	230 V AC (1 or 3-phase)
Rated Input Current:	28 or 20 A
Rated Frequency:	50 - 60 Hz
300 V DC Output Power:	2800 / 2500 / 3200 / 4000 W
Protection Class:	I (at end use)

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

The product meets the relevant safety requirements and was tested according to
(report no.: 095-232971-000)

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

Released with the above certificate number by TÜV PRODUCT SERVICE,
the Product Certification Body of TÜV AMERICA INC.

R - (B 01 02 24238 177)

Department: ELSUSSD/HP

Date: September 10, 2002

A handwritten signature in black ink, reading 'Carlos A. Ortiz'.



TÜV Product Service

www.TUVamerica.com

**Attachment to Certificate B 02 09 24238 326
For Power-One, Inc.**

Summary of testing (information/comments):

The High Power Chassis RPM5XS/RMM5XS Series consists of an Input board, a Bias/Sync board and output modules. The power supply chassis provides a 300 V dc bus which supplies the output modules and the control circuitry. The Bias/Sync board provides 5 slots for the installation of the output modules. The output modules are separately approved.

Model RMM5XS is similar to RPM5XS except for metric mounting hardware on the mounting chassis.

The suffixes after the model name represents: X - series of alphanumeric characters corresponding to output modules and S, optional, represents a series of alphanumeric characters.

All models may have any combination of suffix letters as follows:

- A = Inhibit logic high. Enable open circuit or logic high.
- B = Inhibit open circuit or logic high. Enable logic low.
- C = Inhibit open circuit or logic low. Enable logic high.
- H = Parallel outputs.
- K = Blank panel covering empty slot (Single width).
- L = Blank panel covering empty slot (Double width).
- M = Input power fail warning, low to high transition.
- N = Input power fail warning, open collector conducts to provide signal.
- P = Input power fail warning, open collector opens to provide signal.

Rating for all models:

<u>I N P U T</u>				<u>Output Watts</u>
230 Vac, 1-phase	28 A	50 – 60 Hz		2800
230 Vac, 3-phase	20 A	50 – 60 Hz		2500
230 Vac, 3-phase	20 A	50 – 60 Hz		3200
				(With reverse airflow)
230 Vac, 3-phase	20 A	50 – 60 Hz		4000

1) 4kW chassis must be used if the total output power of all the modules in the chassis exceeds 2500 W. This chassis can use conventional or reverse airflow.

2) 2.5kW chassis must be used if the total output power of all the modules in the chassis equals 2500 W. This chassis can use conventional or reverse airflow.

3) 2.5 or 4kW chassis must be used if the total output power of all the modules in the chassis is below 2500 W.





Ref. Certif. No.

DE 3 - 51565

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

Switching Power Supplies - High Power Chassis

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

24238, 24258, 24260, 25768, 36080

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

Rated Input Voltage: 230 VAC, 1 or 3-phase
Rated Input Current: 28 or 20 A
Rated Frequency: 50 - 60 Hz
300 VDC Output Power: 2800 / 2500 / 3200 /
4000 W
Protection Class: I (at end use)

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

Power-One

Model/type Ref.
Ref. de type

RPM5 / RMM5

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

See Attachment page for configurations

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
095-232971-000

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: 2002-09-11
CB 02 09 24238 327

TÜV
PRODUCT SERVICE

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

**Attachment to Certificate DE 3 – 51565
For Power-One Inc.**

Summary of testing (information/comments):

The High Power Chassis RPM5XS/RMM5XS Series consists of an Input board, a Bias/Sync board and output modules. The power supply chassis provides a 300 V dc bus which supplies the output modules and the control circuitry. The Bias/Sync board provides 5 slots for the installation of the output modules. The output modules are separately approved.

Model RMM5XS is similar to RPM5XS except for metric mounting hardware on the mounting chassis.

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Rating for all models:

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230 Vac, 1-phase	28 A	50 – 60 Hz	2800
230 Vac, 3-phase	20 A	50 – 60 Hz	2500
230 Vac, 3-phase	20 A	50 – 60 Hz	3200
			(With reverse airflow)
230 Vac, 3-phase	20 A	50 – 60 Hz	4000

1) 4kW chassis must be used if the total output power of all the modules in the chassis exceeds 2500 W. This chassis can use conventional or reverse airflow.

2) 2.5kW chassis must be used if the total output power of all the modules in the chassis equals 2500 W. This chassis can use conventional or reverse airflow.

3) 2.5 or 4kW chassis must be used if the total output power of all the modules in the chassis is below 2500 W.





CSA STATEMENT OF COMPLIANCE

This is to Certify that the equipment indicated below has been tested, evaluated and found to comply to all relevant CSA International requirements. This equipment is eligible to bear the following CSA Mark as authorized by the CSA Category Certification Program under Master Contract No. 153031.



EQUIPMENT TYPE: Switch Mode Component Power Supply

MODEL NO: RPM5 or RMM5 Series

RATINGS:

<u>Model</u>	<u>Rated Input Voltage (VAC), # phases</u>	<u>Rated Input Current (A) Per Phase</u>	<u>Rated Frequency</u>	<u>Rated Watts</u>
RPM5X	230 3 Ph.	20 A	50 - 60 Hz	4000
or	230 3 Ph.	20 A	50 - 60 Hz	2500
RMM5X	230 3 Ph.	20 A	50 - 60 Hz	3200*
	230 1 Ph.	28 A	50 - 60 Hz	2800

NOTE: Ph. = Phase * = Reverse Airflow

- I) Model Designator
X = Two-character model number of the certified DC – DC modules (s) installed in the power supply chassis.

II) Conditions of acceptability

- a.) 4 kW chassis must be used if the total output power of all the modules in the chassis exceeds 2500 W. This chassis can use conventional or reverse airflow.
- b.) 2.5 kW chassis must be used if the total output power of all the modules in the chassis equals 2500 W. This chassis can use conventional or reverse airflow.
- c.) 2.5 or 4 kW chassis must be used if the total output power of all the modules in the chassis is below 2500 W.

The power supply may accept up to five modules. The total output rating of the modules may exceed the output rating for the power supply, but the actual power drawn from the supply, must not exceed the output power rating.

All models may have any combination of suffix letters as follows:

A= Inhibit logic high. Enable open circuit or logic high.

B= Inhibit open circuit or logic high. Enable logic low.

C= Inhibit open circuit or logic low. Enable logic high.

H= Parallel outputs.

L= Blank panel covering empty slot.

K= Blank panel covering empty slot.

M= Input power fail warning, low to high transition.

N= Input power fail warning, open collector conducts to provide signal.

P= Input power fail warning, open collector opens to provide signal.

SXXX= Where X is a number 0-9. Denotes customized standard product where changes do not impact safety.

**This product complies with CSA Standard C22.2 No. 0, C22.2 No. 0.4, and CSA C22.2 No. 60950-00
See attached Product Record (CSA documentation package) for these particular model(s).**

Certified by: Robert P. White Jr.

Title: Product Safety Manager



(Signature)

May 23, 2001

(Date)