

## DESCRIPTION

## PRODUCT COVERED:

USR, CNR Component - Switching Power Supply (Chassis), Information Technology Equipment, Including Electrical Business Equipment, Models SPM3XS, SMM3XS, SPM5XS, SMM5XS, HPM5XS, HMM5XS, HPM7XS and HMM7XS Series where X represents a series of alphanumeric characters.

## ELECTRICAL RATINGS: (Optional)

Model	V	Input A	Hz	Output Watts
SPM3XS, SMM3XS	100-120/200-250	20/10	50-60	1000
SPM5XS, SMM5XS	100-120/200-250	30/15	50-60	1500
HPM5XS, HMM5XS	200-250	23	50-60	2000
*	250-350 V dc	11	--	2000
*HPM7XS, HMM7XS	200-250	23	50-60	2500

## 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 3 modules provided on SPM3XS, SMM3XS, up to 5 modules on SPM5XS, SMM5XS, HPM5XS, HMM5XS and up to 7 on HPM7XS, HMM7XS. Output modules are R/C (QQGQ2), Power One Inc., modules from E131905, Volume 1, Sections 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, CNR 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) T1 (bias) employs an electrical insulation system designated Class A unless otherwise specified on the Report.
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 test ed on a 30 A branch circuit. If used on a branch circuit greater than this, additional testing may be necessary.
- \*8. The DC rated units were tested for an input voltage of 250-350 V dc with zero tolerance. If used outside this voltage range, additional testing may be required.

# Certificate

No: B 02 04 24238 280

**TÜV**  
PRODUCT SERVICE

Power-One, Inc.

740 Calle Plano  
Camarillo, CA 93012-8593  
USA

with production facility(ies)  
24238 24258 24260 25768 36080

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  
AC / DC Switching Power Supply

**Model:** SPM3XS, SMM3XS  
See attachment for additional models.

**Parameters:**

Rated Input Voltage:	100-120 / 200-250 V AC
Rated Frequency:	50 - 60 Hz
Rated Input Current:	20/10 A
Rated Output Power:	1000 W
Protection Class:	I (at end-use)
Degree of Protection:	IPXO

When installing the equipment, all requirements of the below  
mentioned standard must be met.  
See attachment for additional information.

The product meets the relevant safety requirements and was tested according to  
(report no.: SI200809-101)

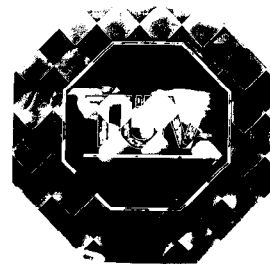
EN 60950:2000  
IEC 60950:1999

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

R - (B 00 01 24238 141)

Department: SDGMIC/HP

Date: April 12, 2002



**Attachment to Certificate B 02 04 24238 280  
For Power-One, Inc.**

**General descriptions:**

High Power Chassis Models SPM3XS/SMM3XS, SPM5XS/ SMM5XS, HPM5XS/HMM5XS, HPM7XS/HMM7XS Chassis consist of an Input board, Bias/Sync board and output modules. The power supply chassis provide a 300 V dc bus which supplies the output modules and the control circuitry. The Bias/Sync board provides 7 slots (HPM7XS/HMM7XS) and 5 slots (SPM5XS/ SMM5XS, HPM5XS/ HMM5XS) for the mounting of the output modules. The output modules are separately approved under the following reports: Single Slot Low Power Modules (SSLP) - S220702601, Single Slot High Power (SSHP) - S220702601, Single Slot Triple Output (SSTO) - S220702601, Double Slot Low Power (DSL P) - S220702601, Double Slot High Power (DSHP) -S11E0031001.


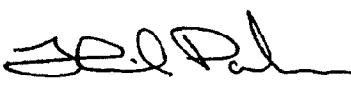
The suffixes after the model name represents: X - series of alphanumeric characters corresponding to output modules and S, optional, represents a series of alphanumeric characters.

Models SMM3XS, SMM5XS, HMM5XS, HMM7XS are exactly the same as SPM3XS, SPM5XS, HPM5XS, HPM7XS except for metric mounting hardware on the mounting chassis.

All outputs are energy hazard (>240 VA) – compliance at end-use.

Model	Rated Input			Output Power
	Vac	A	Hz	
SPM3XS, SMM3XS	100 - 120 / 200 – 250	20 / 10	50 – 60	1000
SPM5XS, SMM5XS	100 - 120 / 200 – 250	30 / 15	50 - 60	1500
HPM5XS, HMM5XS	200 – 250	23	50 - 60	2000
HPM7XS, HMM7XS	200 - 250	23	50 - 60	2500



<b>TEST REPORT</b> <b>EN 60 950:2000 (3<sup>rd</sup> Edition)</b> <b>Safety of information technology equipment</b>	
Report reference No. ....	SI200809-101
Date of issue .....	1 April, 2002
Testing laboratory .....	TÜV Product Service
Address .....	10040 Mesa Rim Road, San Diego, CA 92121, USA
Testing location .....	Power-One, Inc., 740 Calle Plano, Camarillo, CA 93012, USA
Applicant .....	Power-One, Inc.,
Address .....	740 Calle Plano, Camarillo, CA 93012, USA
Standard .....	EN 60 950:2000 (3 <sup>rd</sup> Edition)
Test Report Form No. ....	REPORT.DOT
TRF modified by. ....	TÜV Product Service GmbH
Master TRF .....	PS_INFO\2-ELS.MES\REPORTS\
Copyright blank test report .....	This report is based on a blank test report prepared by FIMKO using information obtained from the TRF originator. Copyright reserved to the bodies participating in the Committee of Certification Bodies (CCB) and/or the CENELEC Certification Agreement (CCA).
Test procedure .....	EN 60950:2000
Procedure deviation .....	None
Non-standard test method .....	None
National deviations .....	All considered
Number of pages (Report) .....	1
Number of pages (Attachments) .....	75, (Attachment A: Cenelec deviations, 7 pages; IEC 60950 report 095-20809A-000 and its attachments, 68 pages)
Compiled by ....	Approved by ....
	
(+ signature) _____ Editha Solomon	(+ signature) _____ Henrik Poulsen



Ref. Certif. No.

DE 3 - 51346

ÎEC 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*

24238, 24258, 24260, 25768, 36080

Rating and principal characteristics  
*Valeurs nominales et caractéristiques principales*

Input Voltage	100-120/200-250 VAC
Input Current	20/10 A
Input Frequency	50 - 60 Hz
Protection Class	I
Output Power	See Attachment

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

Power-One

Model/type Ref.  
*Ref. de type*

SPM3XS, SMM3XS, for additional models see Attachment

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

None

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 60950:1999

**EDITION**  
Third

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  
095-20809A-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: SDG ITY  
Date: 2002-04-22  
CB 02 04 24238 285

**TÜV**  
PRODUCT SERVICE

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

**Attachment to Certificate DE 3 - 51346  
For Power-One, Inc.**

**General description:**

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HPM5XS, HMM5XS	200 – 250	23	50 - 60	2000
HPM7XS, HMM7XS	200 - 250	23	50 - 60	2500







## *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: International High Power 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: 2000, IEC 60950:1999**

These 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.

<u>Approved Models:</u>	HMF3	HMM7	HPF6	RMF5	SMF6	SPF3	SPM3
	HMF4	HPF3	HPM5	RMM5	SMM2	SPF4	SPM5
	HMF5	HPF4	HPM7	RPM5	SMM3	SPF6	
	HMM5	HPF5	RPF5	SMF3	SMM5	SPM2	

The above models may be followed by alpha numeric characters denoting output modules and options. Models may be followed by suffix SXXX.

(Manufacturer)

Robert P. White Jr.  
Product Safety Manager

Camarillo, Ca.

(Place)

April 15, 2002

(Date)