DESCRIPTION

PRODUCT COVERED:

USR, CNR - Linear Power Supplies, Models CP197, F5-25/OVP, F15-15, F24-12, and G5-35/OVP, followed by -A, suffix after the first hyphen may be replaced by -5XX or -7XX where X is 0-9.

ELECTRICAL RATINGS:

	Input			Output, (dc)	
Model	V	A	Hz	V	A
CP197	100/120/220/240	6.5/6.5/3.25/3.25	50/60	5	50
F5-25/OVP	100/120/220/240	3/3/1.5/1.5	50/60	5	25
*F15-15	100/120/220/240	6/6/3/3	50/60	15 or 12	15 16
F24-12	100/120/220/240	6/6/3/3	50/60	24 or 28	12 10
G5-35/OVP	100/120/220/240	4/4/2/2	50/60	5	35

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, Including Electrical Business Equipment, CSA C22.2, No. 60950 * UL 60950, Third Edition.

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

Conditions of Acceptability - When installed in the end-use equipment, considerations 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, Including Electrical Business Equipment, CSA C22.2, No. 60950 * UL 60950, Third Edition, Sub-Clause 2.10, which would cover the component itself if submitted for Listing.

2. A suitable electrical and fire enclosure shall be provided.

3. The terminals and connectors are suitable for factory wiring only.

4. This power supply was evaluated for connection to a TN power system.

5. The products were tested on a 20 A branch circuit. If used on branch circuit greater than this, additional testing may be necessary. This power supply is considered a Class I product. The power supply shall be properly bonded to the main earthing termination in the end use.

6. Bonding terminals provided on this equipment have not been evaluated as protective earthing terminals.

7. All secondary output circuits for all models are SELV and are not hazardous energy levels, except for Models F5-25/OVP and G5-35/OVP.

8. Magnetic device (e.g. transformer) T1 employs an (OBJY3), electrical insulation system designated Class B.

9. The output is considered SELV.

10. These power supplies have been evaluated for use in a 25 and 50°C ambient in accordance with the manufacturer's specifications. The units were loaded to 100% normal rated load for 25 and 50°C, except for Model F24-12 and CP197. At 25°C convection cooling, maximum load are 75% (F24-12) and 70% (CP197) of normal load. At 50°C, the following units required forced air cooling in order to comply with standard requirements.

Model	Required LFM
F5-25/OVP	200
G5-35/OVP	100
F15-15	250
F24-12	100
CP197	300

11. The maximum working voltage present is 254 V rms, 368 V pk. The Electric Strength Tests in the end product shall be based on this value.

12. Transformer Abnormal Operation Tests were conducted with UL Listed fuses rated 250 V, 1.5 A for Model F5-25/OVP; 250 V, 3 A for Models F24-12 and F15-15; 250 V, 2 A for Model G5-35/OVP; and 250 V, 4 A for Model CP197A connected in the ungrounded conductor circuit.

13. The equipment has been evaluated for use in a Pollution Degree 2 environment.

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Certificate

No: B 01 05 24238 213

TÜV PRODUCT SERVICE

Power-One, Inc.

740 Calle Plano
Camarillo, CA 93012-8583
USA

with production facilities
24238 24258 24260

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** **Linear AC / DC Power Supplies**	
Model:	**CP197, F5-25/OVP, F15-15, F24-12, G5-35/OVP**	
Parameters:	Rated Input Voltage:	100 / 120 / 220 / 240 V AC
	Rated Frequency:	50 / 60 Hz
	Rated Input Current:	See attachment
	Rated Output Voltage:	See attachment
	Rated Output Current:	See attachment
	Protection Class:	I (at end use)

Remarks: When installing the equipment, all requirements of the below mentioned standard must be fulfilled.

The product meets the relevant safety requirements and was tested according to (report no.: SI100277-110)

EN 60950:2000
IEC 60950:1999

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

R- (Z1A 01 05 24238 205)

Department: SDGITE / HP Date: 5/25/01

TÜV PRODUCT SERVICE, INC · Danvers · MA · **www.tuvglobal.com**

Attachment to Certificate No. B 01 05 24238 213
for Power One, Inc.
CP197

TÜV
MANAGEMENT SERVICE
PRODUCT SERVICE

General description:

These linear power supply models are open frame AC to DC power supplies. They have been evaluated for use in maximum ambient of 50°C. The units were loaded to 100% of normal rated load at 25 and 50°C ambient except for models F24-12, F15-15 and CP197, which @ 25°C convection cooling their rated loads are 75% (F24-12), 80% (F15-15) and 70% (CP197) of normal load. Maximum load is de-rated by 10% at 50 Hz input operation.

All the units require:
1) A reliable ground (protective earth) connection at the end product.
2) A suitable electric and fire enclosure at End use.
3) Forced air-cooling @ 50°C ambient.
4) External fusing as specified in the Installation instructions.

Ratings:

Model	Input (AC)			Output (DC)		Airflow
	V	A	Hz	V	A	LFM
F5-25/OVP	100/120/220/240	3/1.5	50/60	5	25	200
F15-15	100/120/220/240	6/3	50/60	15 or 12	15 or 16	250
F24-12	100/120/220/240	6/3	50/60	24 or 28	12 or 10	100
G5-35/OVP	100/120/220/240	4/2	50/60	5	35	100
CP197	100/120/220/240	6.5/3.25	50/60	5	50	300

LFM = Linear feet per minute.

All Models will be followed by suffix -A. Suffixes after the first hyphen may be replaced by -5XX or -7XX where X is 0-9.

TÜV PRODUCT SERVICE SAN DIEGO

Carlos A. Ortiz

SI100277-110

05/25/01

Power-One
Power Supplies

Declaration of Conformity

CE MARKING

We. **Power-One, Inc.**
740 CALLE PLANO, CAMARILLO, CA. 93012 U.S.A.

declare under our sole responsibility that the products

Linear Series Component Power Supply

Model(s): **See specific model numbers on reverse side of this document**

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

Quality Standard(s): **ISO 9001, EN29001**

Product Safety Standard(s): **EN60950: 1992 +A1, +A2: 1993**

Directives: **LVD 73/23/EEC**

(Manufacturer)

Camarillo, Ca. *(Place)*

September 27, 1996 *(Date)*

740 Calle Plano, Camarillo, CA 93012-9951 • (805) 987-8741 • Fax (805) 388-0476

Certificate of Conformity

We, **Power-One, Inc.**
740 Calle Plano
Camarillo, Ca. U.S.A. 93012

declare under our sole responsibility that the products

International Series Linear Component Power Supplies

Model(s): **See Table 1, Below**

to which this certificate relates, are in compliance with the following documents:

Quality Standard: **ISO 9001, EN29001**

Directive: **LVD 73/23/EEC**

Safety Standard: **EN60950: 1992 +A1, +A2:1993**

(Manufacturer) Camarillo, Ca. (Place) September 27, 1996 (Date)

The following component power supplies comply with the applicable requirements of EN60950 when properly installed in an end use equipment. The power supplies must be fully enclosed within the end use equipment enclosure ensuring all creepage and clearance distances, be connected to a reliable earth grounding system, and have temperature rise evaluated in that end use equipment. Terminals on the power supply have not been evaluated for field wiring and must be connected within the end use equipment.

TABLE 1

HA5-1.5/OVP-A	HB5-3/OVP-A	HC5-6/OVP-A	HN5-9/OVP-A	HD5-12/OVP-A	HE5-18/OVP-A
F5-25/OVP-A	G5-35/OVP-A	CP197-A	HA15-0.9-A	HB12-1.7-A	HC12-3.4-A
HN12-5.1-A	HD12-6.8-A	HE12-10.2-A	F15-15-A	HB15-1.5-A	HC15-3-A
HN15-4.5-A	HD15-6-A	HE15-9-A	HA24-0.5-A	HB24-1.2-A	HC24-2.4-A
HN24-3.6-A	HD24-4.8-A	HE24-7.2-A	F24-12-A	HB28-1-A	HC28-2-A
HN28-3-A	HD28-4-A	HE28-6-A	HB48-0.5-A	HC48-1-A	HD48-3-A
HE48-4-A	HB120-0.2-A	HB200-0.12-A	HB250-0.1-A	HAA5-1.5/OVP-A	HBB5-3/OVP-A
HCC5-6/OVP-A	HAD12-0.4-A	HAD15-0.4-A	HAA15-0.8-A	HBB15-1.5-A	HCC15-3-A
HDD15-5-A	HAA24-0.6-A	HCC24-2.4-A	HBB24-1.2-A	HAA512-A	HBB512-A
HCC512-A	HTAA-16W-A	HBAA-40W-A	HCAA-60W-A	HCBB-75W-A	CP131-A
HDBB-105W-A	HDCC-150W-A	CP323-A	CP205-A	CP162-A	CP510-A
CP379-A	CP498-A	CP503-A			

IECEE CB-Scheme

Ref. Certif. No.

DE 3 - 5826

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*	Linear AC/DC 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*	1. see applicant 2. Poder Uno de Mexico, San Luis R.C., Sonora, Mexico 3. Power Electronics, Zona Franca Las Americas, Santo Domingo,
Name and address of the factory *Nom et adresse de l'usine*	see manufacturer
Rating and principal characteristics *Valeurs nominales et caractéristiques principales*	see attachment
Trade mark (if any) *Marque de fabrique (si elle existe)*	POWER-ONE
Model/type Ref. *Ref. de type*	CP197, F5-25/OVP, F15-15, F24-12, G5-35/OVP
Additional information (if necessary) *Information complémentaire (si nécessaire)*	--
	PUBLICATION: EDITION:
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*	IEC 60950:1999 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 SI100277-110

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: ELS SDG/ C. Ortiz
Date: 01-04-17
CB 01 04 24238 189

TÜV PRODUCT SERVICE

TÜV
PRODUCT SERVICE

Appendix to CB Certificate Ref. No: DE 3 - 5826

Model	Input (AC)			Output (DC)		Airflow
	V	A	Hz	V	A	LFM
F5-25/OVP	100/120/220 /240	3/1.5	50/60	5	25	200
F15-15	100/120/220 /240	6/3	50/60	15 or 12	15 or 16	250
F24-12	100/120/220 /240	6/3	50/60	24 or 28	12 or 10	100
G5-35/OVP	100/120/220 /240	4/2	50/60	5	35	100
CP197	100/120/220 /240	6.5/3.25	50/60	5	50	300

LFM = Linear feet per minute.

All Models will be followed by suffix -A. Suffixes after the first hyphen may be replaced by -5XX or -7XX where X is 0-9.

Date:

Signature