

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

Component Type Switching Power Supplies

Name and address of the applicant
Nom et adresse du demandeur

Condor DC Power Supplies, Inc.
2311 Statham Parkway
Oxnard, CA 93033 USA

Name and address of the manufacturer
Nom et adresse du fabricant

Same as applicant

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

Additional Information on page 2

Note: When more than one factory, please report on page 2
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2^{ème} page

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

Input rated 100-240 V ac, 50/60 Hz, 6.0 A;
dc outputs rated as indicated on Page 2.

Additional Information on page 2

Trademark (if any)
Marque de fabrique (si elle existe)



Model / Type Ref.
Ref. De type

Additional Information on page 2
GPFM250 Series

Additional information (if necessary may also be reported
on page 2)
Les informations complémentaires (si nécessaire, peuvent
être indiqués sur la 2^{ème} page

Additional Information on page 2

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

EDITION

IEC 60601-1

2:1988

Amendment No 1 (1991) and Amendment No 2 (1995), excluding
requirements for Electromagnetic Compatibility (Clause 36),
Biocompatibility (Clause 48) and Programmable Electronic Systems
(Clause 52.1) Including National Differences: AU, CA, DK, IL, KR,
US, per CB Bulletin 107A

As shown in the Test Report Ref. No. which forms part of
this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue partie de ce Certificat

CB 150684 - 1166451 (1783457)

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



CSA International
178 Rexdale Boulevard
Toronto, ON M9W 1R3

Date: April 27, 2006

Signature: Ginaluca Acari, P. Eng.

Electrical ratings:

Input: 100-240 V ac, 50/60 Hz, 6 A
Output: Maximum volts =48 V dc
Maximum current =50 A
Maximum watts =180 W convection cooled
250 W with cover/fan option
or minimum 150 LFM airflow

Options Included:

GPFM250-X where X represents the output voltage, which may be any number from 3.3 thru 48. Models may or may not be followed by suffix -C, which indicates optional cover/fan, and suffix -H, which indicates the Neutral fuseholder/fuse removed and replaced with a jumper on the PWB, suffix -YYY and/or G, where YYY may be any number from 001 thru 999. The -YYY suffix are used for value added configurations that have no impact on safety and suffix G indicates compliance to RoHS.

Name and Address of Factories:

- F1 Industrias SL, S.A. de C.V.,
Costa Rica No. 60,
Col. Cuahutemoc,
Mexicali B.C.
Mexico.
- F2 *GES Information Technology Co. Ltd.,
No. 668 Li Shi Zhen Rd.,
Shanghai Zhangjiang Hi-Tech Park,
China.*

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



Date: April 27, 2006

Signature: Gianluca Arcari, P. Eng.

File E116994
Project 99SC53255

November 29, 1999

REPORT

ON

COMPONENT - POWER SUPPLIES,
MEDICAL ELECTRICAL EQUIPMENT

Condor DC Power Supplies Inc.
Oxnard, California

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Switching Power Supply, Models GPFM250-15-104, GPFM250-24-C-11, GPFM250-24-112 and GPFM250-X-C-H where X equals any number from 3.3 through 48, C is optional cover, and H indicates the neutral fuse and fuseholder are not provided. May be followed by an optional Suffix "G", which indicates compliance with RoHS. (RoHS Compliance has not been evaluated by UL.)

ELECTRICAL RATINGS:

Input: 100-240 V ac, 50-60 Hz, 6 A.

Output: Maximum watts = 180 W convection cooled, 250 W with cover fan option or minimum 150 LFM airflow.

Maximum current = 50 A

Maximum volts = 48 V

24 V dc max., 12.5 A (300 W for model GPFM250-24-C-11)

24 V dc max., 7.5 A (180 W for model GPFM250-24-112)

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

For use in product where the acceptability of the combination is determined by Underwriters Laboratories Inc.

USR indicates that the product was evaluated to the First Edition of the Standard For Medical Electrical Equipment, Part 1: General Requirements for Safety, UL 60601-1.

CNR indicates that the product was evaluated to the Standard For Medical Electrical Equipment, Part 1: General Requirements for Safety, CSA C22.2, No. 601.1-M90.

Engineering References - Following Illustrations are provided for engineering references:

ILL. 1 - Insulation diagram of the equipment.

ILL. 2 - Installation Instructions

Condition of Acceptability - When installed in the end-use equipment, the following are among the considerations to be made:

1. This component has been judged on the basis of the required spacings in the Standards for Medical Electrical Equipment, Part 1: General Requirements for Safety, UL 60601-1, 1st Edition and CSA C22.2 No. 601.1-M90, which cover the end use product for which the component is designed.
2. The component shall be installed in compliance with the enclosure, mounting, spacing, casualty markings and segregation requirements of the end-use application.
3. Consideration should be given to measuring the temperature on power electronic components and transformer windings when the power supply is installed in the end-use equipment.
4. The input/output connectors are not acceptable for field connections, they are only intended for connection to mating connectors of internal wiring inside the end-use machine.
5. The output circuits have not been evaluated for direct patient connection (Type B, BF or CF).
6. The component should be properly bonded to ground in the end-use equipment.
7. The Temperature Test was performed in a raised ambient of 50°C.
8. The main isolation transformer, T4, complies with Class 155 (F) limits.
9. Leakage current testing should be repeated in the end product application.
10. The power supply was evaluated as Reinforced insulation between primary and secondary and basic insulation between primary to ground.
11. This power supply has been evaluated as Class I, continuous operation, ordinary equipment and has not been evaluated for use in the presence of a flammable anaesthetic mixture with air, oxygen, or nitrous oxide.
12. **The grounding trace on the PWB has not been evaluated as the Protective Earthing path for any metal parts accessible in the end product. However, the grounding path was subjected to the Earthing Test per Clause 18 (25 A for 5 seconds) with acceptable results.**
13. **Only Clause 5 and input rating requirements are evaluated for the manual. Other manual requirements should be evaluated in the end-product.**



Product Service

CERTIFICATE

No. B 07 12 59743 032

Holder of Certificate: **SL Power Electronics, Corp.**



6050 King Drive Bldg A
Ventura CA 93003
USA

Certification Mark:



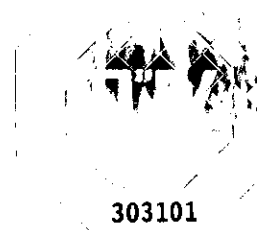
Product:

Medical power supplies
Power supply for medical equipment

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. The certification mark must not be altered in any way. See also notes overleaf.

Test report no.:

SI700003-107



Date, 2007-12-06

Page 1 of 3



Product Service

CERTIFICATE

No. B 07 12 59743 032

Model(s): **GPFM250-X-C-H Series**
GPFM250-15-104, GPFM250-24-C-11,
GPFM250-24-112, GPFM250-24-116
See attachment for additional information

Parameters:

Rated Input Voltage:	100-240 V AC
Rated Input Frequency:	50/60 Hz
Rated Input Current:	6.0 A
Rated Output Voltage:	See Attachment
Rated Output Current:	See Attachment
Rated Output Wattage:	See Attachment
Fan Output:	See Attachment
Protection Class:	I

This certificate and attachment issued with regard to project numbers: SM1V-9997-01, SI00077-114, SI105627-105, SI500149-107, SI500149-114 and SI700003-107.

This product meets the relevant safety requirements and was tested according to the standard listed.

Tested according to: EN 60601-1/A13:1996

Production Facility(ies): 52962, 16784



Product Service

**ATTACHMENT TO CERTIFICATE NO. B 07 12 59743 032
FOR SL POWER ELECTRONICS, CORP.**

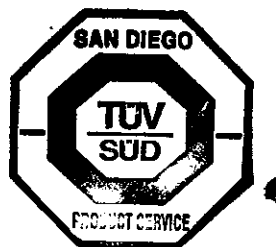
***GPFM250-X-C-H- Series
GPFM250-15-104 and GPFM250-24-C-11,
GPFM250-24-112 and GPFM250-24-116**

*Model numbers: "X" represents output voltage, which may be any number from 3.3 through 48. Models may be followed by Suffix -YYY, which indicates minor alterations not affecting safety. Suffix "C" indicates optional cover/fan and Suffix "H" indicates the neutral fuse holder/fuse removed and replaced with a jumper on the PWB and/or "G" which indicates compliance to RoHS.

Output Ratings	Maximum Volts	Maximum Current	Maximum Watts
All Models	48 V dc	50 A	180 W convection cooled 250 W with cover/fan option, or minimum 150 LFM airflow
GPFM250-24-C-11	24 V dc	12.5 A	300 W with 10 CFM fan/cover
GPFM250-24-112	24 V dc	7.5 A	180 W with 3 CFM fan
GPFM250-24-116	24 V dc	5.8 A 8.3 PEAK	140 W convection cooled

- *Notes:
1. Model # GPFM250-15-104 is equivalent to model # GPFM250-15-H.
 2. Maximum ambient temperature for rated output current is 50° C.
 3. Maximum Operating Relative Humidity 96%, no condensation.
 4. Storage: -40° to 85° C. Units should be allowed to warm-up under non-condensing conditions before application of power.
 5. Degree of protection against electric shock = Signal output or intermediate.
 6. Mode of operation = Continuous

Certificate and Attachment issued under ACT project report SI700003-107 to replace B 05 06 14549 257.



Project Number: SI700003-107

2007-12-06