



Ref. Certif. No.

US/7775B/UL

IEC SYSTEM FOR CONFORMITY TESTING AND CERTIFICATION OF ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE ET DE CERTIFICATION DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product
Produit

DC Power Supplies

Name and address of the applicant
Nom et adresse du demandeur

Condor D C Power Supplies Inc.
2311 Statham Pky
Oxnard, CA 93033, USA

Name and address of the manufacturer
Nom et adresse du fabricant

Condor D C Power Supplies Inc.
2311 Statham Pky
Oxnard, CA 93033, USA

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

Industrias S L S A de C V
Costa Rica #60, Col Cuahutemoc
Mexicali, Baja California N, Mexico

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

Input: 100-240 V ~, 50/60 Hz, 3.0 A
Output: Convection Airflow
Output #1 5 V 15 Amax 20 max
Output #2 3.3 to 24 V 10 Amax 12 max
Output #3 5 to 15 V 4 Amax 5 max
Output #4 -15 to -12 V 0.75 Amax 1.2 max; Power = 180 Watts max. with coverfan option or slotted Cover with a min. of 150 LFM airflow. 140 Watts max. with no airflow and no cover. GLD140H, GLD140H-101: +5 V/6 A, +12 V/2.5 A, +15 V/2 A, -15 V/2 A. Total output power is 120 W with convection cooling.

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

Condor

Model / Type Ref.
Ref. de type

GLD140H-101, GLD140X-C or -CF, where X equals any alpha character A through Z which represents various output configurations. -C is a slotted cover option and -CF is a solid cover with fan option. Models may be followed by suffix -XXX and/or G, where XXX may be any number from 001 thru 999 and suffix G indicates compliance to RoHS.

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

This report comprises 6 enclosures. The CB Test Certificate was amended on March 29, 2005 and March 10, 2006 to revise models, ratings and replace factory. RoHS compliance has not been evaluated by UL.

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 (1988) Second Edition, with Amendment No. 1 (1991) and No. 2 (1995) with the exception of: Clause 36, Electromagnetic Compatibility, Clause 48, Biocompatibility, and Clause 52.1, Programmable Electronic Systems. See CB Test Report for National Differences.

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

E116994-A8-CB-1

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



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Issued: 2003 December 3
Date: Amended: 2005 March 29 (Am. 1)
Amended: 2006 March 10 (Am. 2)

Signature:

Jolanta M. Wroblewska

File E116994
Project 00SC14101

September 27, 2000

REPORT

ON

COMPONENT - POWER SUPPLIES,
MEDICAL AND DENTAL EQUIPMENT

Condor DC Power Supplies, Inc.
Oxnard, California

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - COMPONENT, Switching Power Supply, Medical and Dental, Models GLD140A-102, GLD140H-101, GLD140X-C or -CF where X equals any alpha character A through Z which represents various output configurations, -C is a slotted cover option and -CF is a solid cover with fan option. . Models may be followed by suffix -XXX and/or G, where XXX may be any number from 001 thru 999 and suffix G indicates compliance to RoHS (RoHS compliance has not been evaluated by UL).

ELECTRICAL RATINGS:

Input: 100-240 V ac, 50/60 Hz, 3.0 A.

Output:

	<u>Volts</u>	<u>Convection Amperes</u>	<u>Airflow Amperes</u>
Output #1	5	16 max	20 max
Output #2	3.3 to 24	10 max	12 max
Output #3	5 to 15	4 max	5 max
Output #4	-15 to -12	0.75 max	1.2 max

Power = 180 Watts maximum with cover/fan option or slotted
Cover with a minimum of 150 LFM airflow.
140 Watts maximum with no airflow and no cover.

Fan output is 12 V dc, 0.25 A

GLD140H, GLD140H-101*: +5 V/6 A, +12 V/2.5 A, +15 V/2 A, -15 V/2A ^a Maximum output power = 120W with Convection Cooling

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

USR - indicates investigation to the Standard for Medical Electrical Equipment, UL 60601-1, First Edition

CNR - indicates investigation to Canadian Standard CSA C22.2 No. 601.1

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

ENGINEERING REFERENCES:

Following Illustrations are provided for engineering references:

- Ill. 1 - Isolation Diagram
- Ill. 2 - Installation Instruction Sheet
- Ill. 3 - PWB Trace Layout
- Ill. 4 - Transformer Construction Detail (T3 & T4)

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 First Edition of the Standard for Medical Electrical Equipment, Part 1: General Requirements for Safety, UL 60601-1, which covers 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 isolation transformers, T3 and T4, complies with Class 155 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; 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 anesthetic mixture with air, oxygen, or nitrous oxide.

12. These power supplies have been evaluated for patient care equipment, but not patient connected.
13. Under normal and single fault conditions, the outputs do not exceed 25 V ac or 60 V dc.
14. 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 (30 A for 2 minutes) with acceptable results.
15. This unit has not been evaluated for use with a slotted cover without airflow.

CONSTRUCTION DETAILS:

See Section General, Construction Details.

Trace Layout - Field Representative to insure that the trace layout has not changed. See Ill. 3.

Model Differences - All models are the same, except for output ratings and differences in secondary, low voltage circuitry. -C indicates slotted cover option, -CF indicates cover and fan option.

GLD140H uses a 5 pin regulator for output #4, which requires a different PWB. New trace layout is added to Ill. 3.

GLD140H-101 is identical to the model GLD140H-101 except it is provide with a slotted cover (item 23)

GLD140A-102 is identical to model GLD140A except Line-to-Ground capacitors C3 & C4 value is changed from 1000 pF to 680 pF to reduce earth leakage current.

Models followed by the suffix -XXX represents value added configurations that have no impact on safety.

Models followed by the suffix G indicates compliance to RoHS (RoHS compliance has not been evaluated by UL).



America

CERTIFICATE

No. B 05 12 14549 261

Holder of Certificate: **Condor DC Power Supplies, Inc.**
2311 Statham Parkway
Oxnard, CA 93033
USA

Certification Mark:



Product: **Medical power supplies**
AC/DC Switching Power Supply

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.: SI500149-130



130925

Date, 2005-12-13

Page 1 of 3



America

CERTIFICATE

No. B 05 12 14549 261

Model(s): **GLD140A-102-YYY-G**
 GLD140X-YYY-G
 GLD140X-C-YYY-G
 GLD140X-CF-YYY-G
 GLD140H-101-YYY-G
 Multi Output Series

Parameters:

Rated Input Voltage:	100-240 V AC
Rated Input Frequency:	50/60 Hz
Rated Input Current:	3.0 A
Rated Output Voltage:	See attachment
Rated Output Current:	See attachment
Rated Output Wattage:	See attachment
Rated Convection:	See attachment
Protection Class:	I

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

Production Facility(ies): 16784



America

Attachment to Certificate No. B 05 12 14549 261 for Condor DC Power Supplies

GLD140A-102-YYY-G, GLD140X-YYY-G, GLD140X-C-YYY-G, GLD140X-CF-YYY-G, GLD140H-101-YYY-G Multi Output Series

Models consist of "X" representation alone or in combination with one of two suffixes "C" or "CF".

"X" represents any letter A through Z, denoting output rating.

"C" suffix represents a slotted cover option, no fan.

"CF" suffix represents a solid cover with fan option. Fan output is 12 Vdc, 0.25 A.

Additional - YYY and G where YYY may be a number from 001 thru 999 are used for non-safety related configurations and G indicates compliance to RoHS.

Outputs	V DC	Convection (A)	Airflow (A)
Output #1	5	16 max	20 max
Output #2	3.3 to 24	10 max	12 max
Output #3	5 to 15	4 max	5 max
Output #4	-15 to -12	0.75 max	1.2 max except model GLD140H
Output #5	-15 to -12	2 max	2 max model GLD140H

Model number GLD140H DC outputs: 5 V/6A; 12V/2.5A; 15V/2A; -15V/2A

Maximum Output Power- 180 W maximum with cover/fan option or slotted Cover with a minimum of 150 LFM airflow. 140 W (120 W for model GLD140H) maximum with no airflow and no cover.

