



Ref. Certif. No.

DE 3 - 52265M1

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

Name and address of the applicant
Nom et adresse du demandeur

Name and address of the manufacturer
Nom et adresse du fabricant

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

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

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

Model/type Ref.
Ref. de type

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

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*

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*

Power supply
AC / DC Switching Power Supply

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

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

Industrias SL S.A. de C.V., Calle Cost Rica No. 60 Col. Cuauhtemoc,
Mexicali, B.C., Mexico

For further information please see attachment

GLC65-XX Series:
Rated Input Voltage: 100 - 240 V AC
Rated Input Current: 1.5 A
Rated Input Frequency: 50 / 60 Hz
DC Outputs: 12 - 48 V / 5.4 - 1.35 A
Protection Class: I (at end use)

Condor

GLC65-XX Series, GLC65-5
Where "XX" is any number from "12" through "48"
representing the output voltage rating. May be
followed by suffix -C to indicate optional chassis/
cover.

SMT . See Attachment

IEC 60950-1:2001

TÜV Product Service
095-988102-100

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, 2004-08-23
CB 04 08 14549 039

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

**Attachment to Certificate DE 3 – 52265M1
For Condor DC Power Supplies, Inc.**

General product information:

AC /DC Switching power supply model GLC65-XX is a component type power supply intended for use in Information Technology Equipment.

The model name is followed by XX where XX is any number from 12 through 48, which represents the output voltage rating. May be followed by suffix -C to indicate optional chassis/cover.

DC Output rating: 12 - 48 V / 5.4 – 1.35 A, 65 W maximum, model GLC65-5: 5.1 V / 11 A with 50 LFM external airflow and 5.1 V / 9 A with convection cooling.

This model requires:

- 1) A suitable fire enclosure at end use.
- 2) A reliable ground (Protective Earth) connection at end use.
- 3) Maximum operating ambient of 50°C.

Factories:

- 1) Industrias S.L., S.A. De d.v., Costa Rica No. 60, Col. Cuauhtemoc, Mexicali, B.C. Mexico
- 2) Flash Electronics Inc., No. 2 Gutang Road, WEDZ, Wujiang City, Suzhou, Jiangsu Province, China





CSA INTERNATIONAL

Certificate of Compliance

Certificate: (LR 46516C)

Master Contract: 150684

Project: 1724410

Date Issued: 2005/10/27

Issued to: Condor D.C. Power Supplies Inc.

2311 Statham Pky
Oxnard, CA 93033
USA

Attention: Mr. Ross Sacolles

The products listed below are eligible to bear the CSA Mark shown



Issued by: Eugen Velea, MAsc. E. Eng.

Authorized by: Shane Stevenson, Product
Group Manager

PRODUCTS

CLASS 5311 07 - POWER SUPPLIES - Component Type - (CSA 60950-1-03)

CLASS 5311 20 - POWER SUPPLIES - Component Type - For Use in Medical Equipment

CLASS 5311 07 - Component Power supplies for use in other equipment where the acceptability of the combination is to be determined by CSA International.

Model Numbers: GLC65-X, where X is 5 or any number from 12 through 48, which represents the output voltage rating. May be followed by suffix -C to indicate optional chassis/cover and/or suffix -XXX where XXX may be any number from 001 thru 999. The -XXX suffix are used for value added configurations that have no impact on safety.

Ratings:



Certificate: (LR 46516C)

Master Contract: 150684

Project: 1724410

Date Issued: 2005/10/27

Input: 100-240 V ac, 1.5 A, 50/60 Hz

Output: 11 A or 65 W maximum or see table for standard output voltage models.

Model	Output	Watts
GLC65-5	+5.1 V dc 11 A	56
GLC65-12	+12 V dc 5.4 A	65
GLC65-15	+15 V dc 4.3 A	65
GLC65-24	+24 V dc 2.7 A	65
GLC65-28	+28 V dc 2.3 A	65
GLC65-48	+48 V dc 1.35 A	65

Notes:

1. Maximum ambient temperature for rated output is 50°C.
2. Output rating at 11 A (56 W) requires 50 LFM airflow or derate to 9 A (46 W) maximum with convection cooling.
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.

CLASS 5311 20 - Component power supplies for use in medical equipment where the suitability of the combination is to be determined by CSA International.

Model Numbers: MSP1788, GLM65-12-115, and GLM65-X, where X is 5 or any number from 12 through 48, which represents the output voltage rating. May be followed by suffix -C to indicate optional chassis/cover. G2M65-X, where X is any number from 12 through 48, which represents the output voltage rating. Models GLM65-X and G2M65-X may be followed by suffix -XXX where XXX may be any number from 001 thru 999. The -XXX suffix are used for value added configurations that have no impact on safety.

Ratings:

Input: 100-240 V ac, 1.5 A, 50/60 Hz

Output: 11 A or 65 W maximum or see table for standard output voltage models.

Model	Output	Watts
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Certificate: (LR 46516C)

Master Contract: 150684

Project: 1724410

Date Issued: 2005/10/27

GLM65-5	+5.1 V dc 11 A	56
GLM65-12	+12 V dc 5.4 A	65
GLM65-15	+15 V dc 4.3 A	65
GLM65-24	+24 V dc 2.7 A	65
GLM65-28	+28 V dc 2.3 A	65
GLM65-48	+48 V dc 1.35 A	65
GLM65-12-115	+12 V dc, 5.4 A	65
MSP1788	+15.9 V dc, 4.0 A	64

Notes:

1. Maximum ambient temperature for rated output is 50°C.
2. Output rating at 11 A (56 W) requires 50 LFM airflow or derate to 9 A (46 W) maximum with convection cooling.
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. All outputs are intended for Signal Output and Intermediate Circuits only. The output is not acceptable for patient connection without additional isolation.
6. The outputs are SELV during normal and single fault conditions.
7. The isolation voltage from primary to secondary is 4000 V ac. The creepage distance between primary and secondary circuits is 8 mm minimum.
8. External overcurrent protection on the Neutral side of the line is required.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No 60950-1-03 Safety of Information Technology Equipment, Part 1: General Requirements

CAN/CSA-C22.2 No. 601.1 Medical Electrical Equipment, Part 1: General Requirements for Safety



CERTIFICATE

No. B 06 01 14549 265

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

Certification Mark:



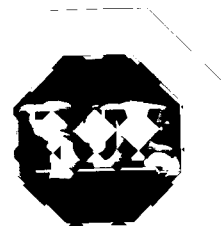
Product: **Power supplies**
AC / DC Switching Power Supply

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.: 095-988102-200

Date, 2006-01-09

Page 1 of 2



218544

TÜV AMERICA INC. • 5 Cherry Hill Drive • Danvers MA 01923 USA
TÜV Süddeutschland Group



CERTIFICATE
No. B 06 01 14549 265

Model(s): **GLC65-X Series**
Where X is the output voltage, which may be 5 or any number from 12 thru 48. May be followed by suffix -C to indicate optional chassis/cover and/or suffix -XXX where XXX may be any number from 001 thru 999. The -XXX suffix are used for value added configurations that have no impact on safety.

Brand Name: **Condor**

Parameters:

Rated Input Voltage:	100 - 240 VAC
Rated Input Frequency:	50 / 60 Hz
Rated Input Current:	1.5 A
DC Output range:	12 - 48 V / 5.4 – 1.35 A, 65 W maximum,(model dependent)
Model GLC65-5:	5.1 V / 11 A with 50 LFM external airflow and 5.1 V / 9 A with convection cooling.
Maximum Output Watts:	65 W
Protection Class:	I (at end use)
This model requires:	
	1) A suitable fire enclosure at end use.
	2) A reliable ground (Protective Earth) connection at end use.
	3) Maximum operating ambient of 50°C.

Tested according to: EN 60950-1/A11:2004

Production Facility(ies): 16784, 52962
William Alenthorpe

Page 2 of 2



Product Service

Technical Report No. SI600002-102, Revision

Issue Date: 2006-05-03

Client: / Applicant: (14549) Condor DC Power Supplies, Inc.
2311 Statham Parkway
Oxnard, CA 93033
Attn.: Daniel Mitchell

Responsible Manufacturer: Same as above

Manufacturing location(s): (16784) Industrias SL S.A. de C.V. Calle Cost Rica No. 60, Col.
Cuauhtemoc, Mexicali, B.C. Mexico

(56962) Shanghai GES Information Technology Co, Ltd., No. 668,
Li Shi Zhen Rd., Shanghai Zhangjiang Hi-Tech Park, China

Test subject: Product: Switching Power Supply:
Type: GLC65-28

Test specifications: EN 60950-1:2001

Purpose of examination: Alternate construction testing and evaluation in accordance
with the test specifications for continued authorized use of a
TÜV Product Service Certification Mark.

Add optional suffix "G" to the GLC 65 Series. "G" indicates
RoHS compliance.

Test result: The equipment submitted **MEETS** the requirements of the
test specifications as indicated.

This technical report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.

TÜV America, Inc.
PRODUCT SERVICE
10040 Mesa Rim Road
San Diego, CA 92121-2912 USA
Phone +001.858.678.1400, Fax +001.858.546.0364

Technical Report No. SI600002-102
Revision: 00
Project Manager: Henrik Poulsen
Date: 2006-05-03
Page 1 of 3



Product Service

1 Description of the test object

1.1 Function / Intended use

Switching Power Supply

1.3 Technical Data

Model: GLC65-28
Rated Voltage: 100-240 Vac
Rated Frequency: 50/60 Hz
Protection Class: I
Installation Category: I
Pollution Degree: 2
Degree of Protection (IP): X0
Laser Class: 1
Maximum Altitude: 2000 m (6562 ft)
Maximum Room Ambient: 50 °C

1.4 Conditions of Acceptability:

When installing the equipment, all requirements of the specified standard must be met.

2 Order

2.1 Date of Purchase Order, Customer's Reference

ACT Client.

2.2 Receipt of Test Sample, Location

No test object retained

2.3 Date of Testing

ACT location

2.4 Location of Testing

Condor Inc., 2311 Statham Parkway, Oxnard, CA 93033 USA

2.5 Points of Non-compliance

None

3 Test Results

3.1 Positive Test Results

- *documents*: No non-compliances.
- *points resulting from the evaluation*: No non-compliances.
- *performed tests*: All outstanding tests completed.

3.2 Points of Non-compliance according to the test specification

(THE NUMBER IN BRACKETS REFERS TO CLAUSE NUMBER IN THE STANDARD)

None



Product Service

4 Remarks

This Technical Report supplements your previously issued Product Certificate or Test Report used for TÜV Product Service Certification Marks (see issued certificate for details). Maintain all items as evidence of this alternate construction approval.

An updated TÜV license and CB certificate with name and address change will be issued in the near future.

CERTIFICATE CANCELLATIONS: For cancellation to be effective with associated costs for the following year, licenses/certificates **MUST BE** canceled on or before October 1.

4.1 Remarks to Factory

None

5. Documentation

5.1 Issued Product Documentation

- Technical report

6 Summary

The equipment submitted **MEETS** the requirements of the test specification(s).

If any of the Applicant, Responsible Manufacture, Factory location(s) or Product information in this Technical Report is incorrect or misstated, please advise us of the correction, as this is the information to be placed in the finalized Test Report(s) and Certificate (if applicable).

TÜV America, Product Service

David Wong
Product Safety Service Engineer

Henrik Poulsen
Product Safety Service Engineer

DESCRIPTION

PRODUCT COVERED:

USR/CNR, Switching Power Supply, Model GLC65-5 and GLC65-X where X may be any number from 12 through 48. Models may be followed by suffix (-C) to indicate optional chassis/cover and/or suffix -XXX where XXX may be any number from 001 thru 999. May be followed by an optional "G" which indicates compliance with RoHS. (RoHS compliance has not been evaluated by UL)

ELECTRICAL RATINGS:

Input: 100-240 V ac, 50/60 Hz, 1.5 A.
Output: Maximum watts = 65 W (68 W at 48 V output)
Maximum Current = 5.4 A
Maximum Volts = 48 Vdc

GLC65-5 Output: 5.1 Vdc, 11 A with 50 LFM airflow
5.1 Vdc, 9 A with convection cooling

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

This product is for use only in (or with) complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

USR/CNR indicates investigation to the U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, Equipment - Safety - Part 1: General Requirements, CSA C22.2 No. 60950-1-03 * UL 60950-1, First Edition.

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

Conditions 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 Standard for Safety of Information Technology Equipment - Safety - Part 1: General Requirements, CSA C22.2 No. 60950-1-03 * UL 60950-1, First Edition, which would cover the component itself if submitted for unrestricted listing.
2. All secondary output circuits are SELV and are not hazardous energy levels.

3. The terminals and connectors have not been evaluated for field wiring.
4. **The power supply shall be properly bonded to the main protective earthing termination in the end product as this unit was investigated for Class I construction as defined in UL 60950-1. An additional evaluation shall be made if the power supply is intended for use in other than Class I equipment.**
5. Bonding terminals provided on this equipment have not been evaluated as protective earthing terminals.
6. Magnetic device transformer T2 employs an OBJY2 electrical insulation system designated Class F. Inductor T1 employs bobbin material rated 155°C in the thickness used.
7. The equipment has been evaluated for use in a Pollution Degree 2 environment.
8. The component shall be installed in compliance with the enclosure, mounting, spacing, casualty markings and segregation requirements of the end-use application.
9. This power supply was evaluated for use in a 50°C ambient. An additional evaluation should be made if the power supply is intended to be used in an elevated ambient.

CONSTRUCTION DETAILS:

See Section General for additional details.

Operating/Instruction/Safety Manual - Provided with each unit, see ILL. 3.

Printed Wiring Board - See Section General for details.

General appearance of trace layout same as in ILL. 1. Board rated 130°C.

Model Differences - All models are the same, except for output ratings and differences in secondary, low voltage circuitry.

Alternate construction - Power supplies built exactly the same as Medical power supplies GLM65-X, described in E116994, Vol. 1, Sec. 59, except units are labeled GLC65-X. GLC65-X and GLM65-X models previously differ only in components T1 (EMI Inductor), and C22 & C23 (Y capacitors). Alternate components are described on the following pages.

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

GLC65-28 alternate construction is electronically identical to the GLM65-28 already approved, except for the following:

Components T3, C11, C12, R11, R17, CR6, CR7, CR12, L2 and C17 have been removed.

L2 is replaced with resistor rated 100 Ω , C17 is replaced with resistor rated 330 Ω , and W2 is added.

Components Q1, R9 and Q3 are changed.