



Ref. Certif. No.

DE 3 - 51878M1

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

Model GLC65x Series	
Rated Input Voltage:	100 - 240 V AC
Rated Input Frequency:	50 / 60 Hz
Rated Input Current:	2.0 A
Maximum Operating Ambient:	50° C
Rated DC Outputs:	3.3 - 5 V / 5.0 - 7.0 A
	3.3 - 24 V / 1.5 - 4.0 A
	-15 V or -12 V or 12 V /
	2.0 A or 2.5 A or 2.5 A

Current ratings with convection cooling, higher with airflow.

Condor

GLC65x Series
(where x can be any character from A through Z)
See Attachment for additional information

SMT

IEC 60950-1:2001

TÜV Product Service
095-301610-100

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, 2004-05-25
CB 04 05 14549 034



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

**Attachment to Certificate DE 3 – 51878M1
For Condor DC Power Supplies, Inc.**

General product information:

This multi-output series can have the following DC outputs:

Output #1: 3.3 - 5 V / 5.0 - 7.0 A (convection cooled) or 8.0 - 9.0 A (with 150 lfm airflow)

Output #2: 3.3 - 24 V / 1.5 – 4.0 A (convection cooled) or 2.5 - 6.0 A (with 150 lfm airflow)

Output #3: -15 V or -12 V or 12V / 2.0 A or 2.5 A or 2.5 A (convection cooled); 3.0 A or 4.0 A or 4.0 A (with 150 lfm airflow)

Output Power: 70 W maximum with a minimum 150 lfm airflow over the unit or 60 W maximum when convection cooled.

Model GLC65A-110 only:

Output #1: 9.0 V / 3.4 A

Output #2: 6.0 V / 1.5A

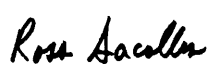
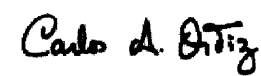
This test report is based on original data in IEC (CB DE3-5441) and Bauart test reports SI1F00429-01. All new requirements were taken into consideration. No additional testing was deemed necessary. This test report supersedes the previous ones.

Conditions of acceptability at end use: a)Reliable protective bonding connection, b)Testing of protective bonding at 25 A minimum, c)Adequate fire enclosure, d)convection cooling or specified airflow, e)maximum operating ambient is 50 °C.

Modification 1:

This modification to the report adds model GLC65A-110. Model GLC65A-110 is similar to model GLC65A except for 1) reduction of total output power from 65 W to 40 W, 2) reduced the numbers of outputs from 3 to 2, 3) change of winding material from Kapton to Tefzel. Additional test were conducted. Changes to this report are shown in bold print text. The report is re-released in its entirety.



TEST REPORT IEC 60950-1 and/or EN 60950-1, First Edition Information technology equipment – Safety – Part 1: General requirements	
Report reference No: 095-301610-000 Tested by (printed name and signature): Ross Sacolles Approved by (printed name and signature): Carlos A. Ortiz Date of issue: 26 April, 2003	<div style="text-align: right; margin-top: 20px;">   </div>
Testing Laboratory Name: TÜV PRODUCT SERVICE Address: 10040 Mesa Rim Road, San Diego, CA 92121, USA Testing location: CBTL <input type="checkbox"/> CCATL <input type="checkbox"/> SMT <input checked="" type="checkbox"/> TMP <input type="checkbox"/> Address: Condor Inc., DC Power Supplies, Oxnard, CA (see below)	
Applicant's Name: Condor, Inc. DC Power Supplies Address: 2311 Statham Parkway, Oxnard, CA 93033 USA	
Test specification Standard: IEC 60950-1:2001 and EN 60950-1:2001, First Edition Test procedure: CB–Scheme and CCA Non-standard test method: None	
Number of pages (Report): 41 Number of pages (Attachments): 31 Attachment No. 1: National and Group Differences Attachment No. 2: Photo-documentation	
Test Report Form No.: IECEN60950_1A TRF originator: SGS Fimko Ltd Master TRF: Dated 2002-03 Copyright © 2002 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.	

Test item description	AC/DC Switching Power Supply
Trademark	Condor
Manufacturer	Same as Applicant
Factory	Industrias SL, Costa Rica No. 60, Mexicali, BC, Mexico (Code#16784)
Model and/or type reference	GLC65x Series (where x can be any character from A through Z)
Serial number	None
Rating(s)	Input: 100 – 240 V AC, 2.0 A, 50/60 Hz; DC Outputs: see general product information below

General product information:

This multi-output series can have the following DC outputs:

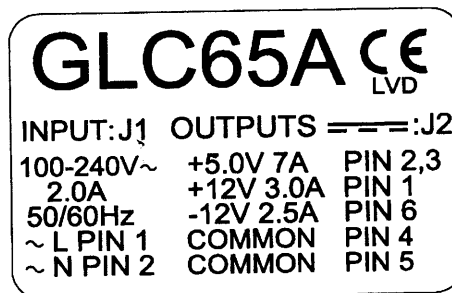
- Output #1: 3.3 - 5 V / 5.0 - 7.0 A (convection cooled) or 8.0 - 9.0 A (with 150 lfm airflow)
- Output #2: 3.3 - 24 V / 1.5 – 4.0 A (convection cooled) or 2.5 - 6.0 A (with 150 lfm airflow)
- Output #3: -15 V or -12 V or 12V / 2.0 A or 2.5 A or 2.5 A (convection cooled); 3.0 A or 4.0 A or 4.0 A (with 150 lfm airflow)

Output Power: 70 W maximum with a minimum 150 lfm airflow over the unit or 60 W maximum when convection cooled.

This test report is based on original data in IEC (CB DE3-5441) and Bauart test reports SI1F00429-01. All new requirements were taken into consideration. No additional testing was deemed necessary. This test report supersedes the previous ones.

Conditions of acceptability at end use: a)Reliable protective bonding connection, b)Testing of protective bonding at 25 A minimum, c)Adequate fire enclosure, d)convection cooling or specified airflow, e)maximum operating ambient is 50 °C.

Copy of marking plate:



CERTIFICATE

No. B 04 05 14549 033



Holder of Certificate: Condor DC Power Supplies, Inc.

2311 Statham Parkway
Oxnard, CA 93033
USA

Certification Mark:



Product: Power supply

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.: 095-301610-100

A handwritten signature in black ink, appearing to read "E. O. P. A.", is written over the date.

Date, 2004-05-19

Page 1 of 3



134842

CERTIFICATE
No. B 04 05 14549 033



Model(s): GLC65x Series
(where x can be any character from A through Z)
See Attachment for additional information

Brand Name: Condor

Parameters:

Model GLC65x Series	
Rated Input Voltage:	100 - 240 V AC
Rated Input Frequency:	50 / 60 Hz
Rated Input Current:	2.0 A
Maximum Operating Ambient:	50° C
Rated DC Outputs:	3.3 - 5 V / 5.0 - 7.0 A 3.3 - 24 V / 1.5 - 4.0 A -15 V or -12 V or 12 V / 2.0 A or 2.5 A or 2.5 A

Current ratings with convection cooling, higher with airflow.

Tested according to: EN 60950-1:2001
IEC 60950-1:2001

Production Facility(ies): 16784

**Attachment to Certificate B 04 05 14549 033
For Condor DC Power Supplies, Inc.**

This multi-output series can have the following DC outputs:

Output #1: 3.3 - 5 V / 5.0 - 7.0 A (convection cooled) or 8.0 - 9.0 A (with 150 lfm airflow)

Output #2: 3.3 - 24 V / 1.5 – 4.0 A (convection cooled) or 2.5 - 6.0 A (with 150 lfm airflow)

Output #3: -15 V or -12 V or 12V / 2.0 A or 2.5 A or 2.5 A (convection cooled); 3.0 A or 4.0 A or 4.0 A (with 150 lfm airflow)

Output Power: 70 W maximum with a minimum 150 lfm airflow over the unit or 60 W maximum when convection cooled.

Model GLC65A-110 only:

Output #1: 9.0 V / 3.4 A

Output #2: 6.0 V / 1.5A

This test report is based on original data in IEC (CB DE3-5441) and Bauart test reports S11F00429-01. All new requirements were taken into consideration. No additional testing was deemed necessary. This test report supersedes the previous ones.

Conditions of acceptability at end use: a)Reliable protective bonding connection, b)Testing of protective bonding at 25 A minimum, c)Adequate fire enclosure, d)convection cooling or specified airflow, e)maximum operating ambient is 50 °C.



A handwritten signature in black ink, appearing to read "E. J. PA".

DESCRIPTION

PRODUCT COVERED:

USR, CNR - Switching Power Supply, Model GLC65X where X equals any alpha character from "A" through "Z", which represents various output configurations **and Model GLC65A-110.**

ELECTRICAL RATINGS:

Input: 100-240 V ac, 50/60 Hz, 2.0 A.
Output:

	<u>Volts</u>	<u>Convection Amps</u>	<u>150 LFM Amps</u>
Output #1	3.3 to 5	7 max	9 max
Output #2	3.3 to 24	4 max	6 max
Output #3	-15 to +12	2.5 max	4 max

GLC65A-110

Output 1	9	3.4	-
Output 2	6	1.5	-

Power = 70 Watts maximum with a minimum of 150 LFM.
60 Watts maximum with no airflow.
GLC65A-110 40 W Continuous with no airflow

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, CSA C22.2, **60950-00 * UL 60950**, Third Edition.

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

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 Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA C22.2, No. **60950-00**
*** UL 60950**, Third Edition.
2. The products were tested on a 20 A branch circuit. If used on a branch circuit greater than this, additional testing may be necessary.
3. All secondary output circuits are SELV and are not hazardous energy levels.
4. The terminals and connectors have not been evaluated for field wiring.
5. 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**. An additional evaluation shall be made if the power supply is intended for use in other than Class I equipment.
6. Bonding terminals provided on this equipment have not been evaluated as protective earthing terminals.
7. Magnetic devices transformers T2 and T3 employ a **R/C** (OBJY2) electrical insulation system designated Class **H (180°C)**. Inductor T1 employs bobbin material rated 130°C in the thickness used.
- 7a. **On the GLC65A-110 transformers T2 and T3 employ an OBJY2 electrical insulation system designated Class F (155°C).**
8. The equipment has been evaluated for use in a Pollution Degree 2 environment.

9. The component shall be installed in compliance with the enclosure, mounting, spacing, casualty markings and segregation requirements of the end-use application.
10. 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.
11. All power supplies comply with the Limited Power Source requirement in Clause 2.5 of UL 60950.