

File E135803
Project 99SC56151

January 13, 2000

REPORT

ON

COMPONENT - POWER SUPPLIES,
INFORMATION TECHNOLOGY EQUIPMENT,
INCLUDING ELECTRICAL BUSINESS EQUIPMENT

Condor DC Power Supplies Inc.
Oxnard, California

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DESCRIPTION

PRODUCT COVERED:

* USR, Component - Switching Power Supplies for use in Information Technology Equipment, Models GLC40A, GLC40B, GLC40D, GLC40-X where X represents the output voltage, which may be any number from 3.3 thru 48, SP1541, and SP1723. GLC40 models may be followed by suffix -V for Voltage Adj. Pot for V1.

ELECTRICAL RATINGS:

Input: 100-240 V ac, 50/60 Hz, 1.3 A
Input SP1723: 100-240 V ac, 50/60 Hz, 0.7 A

Output:

* Model	V1	A1	V2	A2	V3	A3	V4	A4
GLC40A	5.1	3	12	2	-12	0.3		
GLC40B	5.1	3	24	1	-15	0.3		
GLC40D	5.1	3	15	2	-12	0.3		
SP1541	5.1	5	12	0.5	-12	0.5		
SP1723	5.1	2.1	12	0.1	-12	0.25	-5	0.1

* GLC40-X

Output: 3.3 thru 48 V, 8 thru 0.83 A
26.4 W maximum for output voltages from 3.3 thru 4.8 V
40 W maximum for output voltages from 4.9 thru 48 V

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, CAN/CSA C22.2 No. 60950-00 UL 60950, Third Edition.

The component was submitted and tested for a maximum manufacturer's recommended ambient (Tmra) of 50°C.

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

Conditions of Acceptability - When installed in the end-product, considerations shall be given to the following:

- 1.* This component has been judged on the basis of the required spacings in the Standard for 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. The need for conducting leakage current tests is to be determined as part of the end-product evaluation.
4. This power supply has only been evaluated for use in pollution degree 2 environment.
5. The output connectors have not been evaluated for field connections and are only intended for connection to mating connectors of internal wiring inside the end-use machine. The acceptability of these and the mating connectors relative to secureness, insulating materials and temperature shall be considered.
- 6.* This power supply shall be properly bonded to earth in the end-use product as this unit was investigated for Class I construction as defined in UL 60950. The bonding terminal has not been investigated as protective earthing terminal. An additional evaluation shall be made if the power supply is intended for use in other than Class I equipment.
7. The secondary outputs of this power supply are considered SELV and non-energy hazardous energy levels.

8. This power supply has been evaluated for use in a 25°C and a 50°C ambient. An additional evaluation should be made if the power supply is intended to be used in an elevated ambient.
- 9.* All power supplies, except Models GLC40-3.3 thru GLC40-5 comply with the Limited Power Source requirement in Clause 2.5 of UL 60950.



Statement of Compliance

Condor Report No: 138

Master Report No: LR 46516-203C

Revision: L

Date Issued: September 18, 2002

Issued by: **Condor D.C. Power Supplies Inc.**
2311 Statham Parkway
Oxnard, CA 93033
USA

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



Issued by: David Hemphill

Signature: _____

David Hemphill
[Signature] 10/02/02

PRODUCTS

CLASS 5311 06 - POWER SUPPLIES – Component Type

Component Power Supply for use in Medical Equipment, where the suitability of the combination is to be determined by CSA International.

- Model GLC40A, (L3M1), input rated 100-240 V (continuous), 50/60 Hz, 1.3 A; dc outputs rated +5.1 V/3 A, +12 V/2 A, -12 V/0.3 A.
- Model GLC40B, (L3M1), input rated 100-240 V (continuous), 50/60 Hz, 1.3 A; dc outputs rated +5.1 V/3 A, +15 V/2 A, -15 V/0.3 A.
- Model GLC40D, (L3M1), input rated 100-240 V (continuous), 50/60 Hz, 1.3 A; dc outputs rated +5.1 V/3 A, +24 V/1 A, -12 V/0.3 A.
- Model SP1541, (L3M1), input rated 100-240 V (continuous), 50/60 Hz, 1.3 A; dc outputs rated +5.1 V/5 A, +12 V/0.5 A, -12 V/0.5 A.
- Model SP1723, (L3M1), input rated 100-240 V (continuous), 50/60 Hz, 0.7 A; dc outputs rated +5.1 V/2.1 A, +12 V/0.1 A, -12 V/0.25 A, -5 V/0.1 A.
- Model GLC40-X, (L3M1), input rated 100-240 V (continuous), 50/60 Hz, 1.3 A; X represents the output voltage which can be any number from 3.3 thru 48 V, 8 thru 0.83 A.

26.4 W maximum for output voltages from 3.3 thru 4.8 V
40 W maximum for output voltages from 4.9 thru 48 V

Notes

1. Maximum Continuous Power is 40 Watts - total of all outputs (see note 3 below).
2. Maximum ambient temperature is 50°C.
3. Model SP1723 Maximum Continuous Output Power is 15 Watts.
4. GLC40 models may be followed by suffix –V for optional Output #1 Voltage Adj. Pot.

APPLICABLE REQUIREMENTS

CAN/CSA Standard C22.2 No. 60950-00 - Information Technology Equipment

REVISION: L

Added all models from 3.3 thru 48 V on the GLC40 Single-Output Series, added optional Output #1 Voltage Adj. Pot (–V suffix) to GLC40 models, upgraded certification of all models to CSA Std. C22.2 No. 60950-00, 3rd Edition, and made minor corrections to the report. No tests were performed due to tests already performed on the series.



Product Service

CERTIFICATE

No. B 06 06 59743 004

Holder of Certificate: SL Power Electronics, Corp.

6050 King Drive Bldg A
Ventura CA 93003
USA

Production Facility(ies):

16784, 52962

Certification Mark:



Product:

Switching power supply unit
(AC/DC Switching Power Supplies)

Model(s):

GLC40 Series
(For further model information please see attachment)

Parameters:

Rated Input Voltage: 100 - 240 V ac
Rated Frequency: 50 / 60 Hz
Rated Input Current: 1.3 A max.
Protection Class: I
Ta: 50°C

Rated DC Outputs: Please see attachment for details.

Please see attachment for additional information, and Conditions of Acceptability.

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

The product was tested on a voluntary basis and complies with the following 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.: 095-602104-000

Date, 2006-07-07

William A Wentz

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218693



Product Service

**ATTACHMENT TO CERTIFICATE NO. B 06 06 59743 004
FOR SL POWER ELECTRONICS, CORP.**

**GLC40 SERIES
AC/DC SWITCHING POWER SUPPLIES**

These AC/DC Switching Power Supplies are components, which are intended for use in Information Technology Equipment.

The GLC40 Series includes Single Output and Multi Output models. Single models are GLC40A, GLC40B, and GLC40D. Multi models are GLC40-x where x may be any number from 3.3 thru 48. All base numbers may or may not be followed by suffix -XXX and / or G, where:

-XXX suffix are used for value added configurations that have no impact on safety, may be any number from 001 thru 999;

G suffix indicates compliance to RoHS.

MULTIPLE OUTPUT MODELS

DC OUTPUT VOLTAGE AND CURRENT

Model	Watts ¹	Output #1	Output #2	Output #3
GLC40A	40	+5.1 V dc / 3 A	+12 V dc / 2 A	-12 V dc / 0.3 A
GLC40B	40	+5.1 V dc / 3 A	+15 V dc / 2 A	-15 V dc / 0.3 A
GLC40D	40	+5.1 V dc / 3 A	+24 V dc / 1 A	-12 V dc / 0.3 A

SINGLE OUTPUT MODELS

DC OUTPUT VOLTAGE AND CURRENT

GLC40-x where x represents output voltage

Model	Watts ¹	Output #1
GLC40-3.3	26.4*	3.3 V dc / 8 A
GLC40-5	40	5.0 V dc / 8 A
GLC40-9	40	9.0 V dc / 4.4 A
GLC40-12	40	12.0 V dc / 3.3 A
GLC40-15	40	15.0 V dc / 2.7 A
GLC40-24	40	24.0 V dc / 1.7 A
GLC40-28	40	28.0 V dc / 1.4 A
GLC40-48	40	48.0 V dc / 0.83 A

Notes:

1. Maximum continuous output power is 40 W at 50 °C — Total of all Outputs.
 2. Maximum Relative Humidity 96 %, no condensation.
 3. Storage: -40 to +85 °C. Units should be allowed to warm-up under non-condensing conditions before application of power.
- (*) This model is rated 26.4 W maximum

CONDITIONS OF ACCEPTABILITY:

When installed in the end use equipment, all the requirements of the referenced standards must be met. The following are among the considerations to be made:

The following must be evaluated at end use:

- 1) Fire and mechanical enclosure must be provided.
- 2) A reliable ground (Protective Earth) connection.
- 3) Unless otherwise stated, maximum rated power for all models: 40 W – total of all outputs
- 4) Maximum operating temperature: 50 °C

Report Number: 095-602104-000

William A. Wentz

2006-07-07