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File E135803  
Project 92SC05315

May 19, 1992

REPORT

ON

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

Condor DC Power Supplies Inc.  
Oxnard, California

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DESCRIPTIONPRODUCT COVERED:

Component - Switching Power Supplies for Use in Information Technology Equipment, Models GPx140-5, GPx140-12, GPx140-15, GPx140-24 and GPx140-28, where X is M or C and Model GPC140-24PO. Model numbers may be followed by -C, -T, -T1, -T2; Model SP1382.

ELECTRICAL RATINGS:

Input: 100-240 V ac, 47-63 Hz, 4 A.

Output:

Model	Volts	Maximum Output Amps and Watts		
		Convection Cooling		Forced Air Cooling (min 26 cfm)
		Without Cover	With Cover	With and/Without Cover
GPx140-5	5	26 A, 130 W	24 A, 120 W	32 A, 160 W
GPx140-12	12	11.7 A, 140 W	10 A, 120 W	13.4 A, 160 W
GPx140-15	15	9.3 A, 140 W	8 A, 120 W	10.7 A, 160 W
GPx140-24,	24	5.8 A, 140 W	5.8 A, 120 W	6.7 A, 160 W
*GPC140-24PO				
GPx140-28,	28	5.0 A, 140 W	5.0 A, 120 W	5.8 A, 160 W
SP1382				

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

This product was investigated under the Standard for Information Technology Equipment, UL 1950, First Edition, dated March 15, 1989.

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

Abnormal Tests done at UL were performed with a single layer of cheesecloth over the unit. The Abnormal Test data submitted by the client under the Client Data Program had not been performed with cheesecloth over the unit. The possibility of a Fire Hazard during abnormal tests was checked visually.

Schematics of the models can be found in the Tests Reference Section.

The equipment is considered:

Class I (earthed), intended for use on a TN power system.

Conditions of Acceptability - When installed in the end-use equipment, 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, Sub-Clause 2.9, which would cover the component itself if submitted for unrestricted Listing.
2. This power supply shall be installed in compliance with the enclosure, mounting, creepage, clearance, casualty, markings and segregation requirements of the end-use application.
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 a pollution degree 2 environment.

5. The input and 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 1950. The bonding terminal has not been investigated as a 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.
8. This power supply was evaluated under the assumption that the power source is a TN-S system as defined by UL 1950.
9. This power supply has been evaluated for use in a 25°C, and a 50°C ambient. The end use product shall ensure that the airflow/power ratings Listed in the electrical ratings output table are not exceeded. An additional evaluation should be made if the power supply is intended to be used in an ambient greater than 50°C.
10. The end use product shall ensure that a fuse replacement warning for the Primary Fuse is provided.



# Certificate of Compliance

**Certificate Number:** LR 46516-136C

**Revision:** LR 46516-193C

**Date Issued:** June 2, 1994

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

***The products listed below are eligible to bear the CSA Mark.***

**Issued By:** William Giesbrecht, AScT.  
Vancouver, B. C., Canada

**Signature**

## PRODUCTS

### CLASS 5311 03 - POWER SUPPLIES - Component Type

Component type power supplies intended for use with Information Technology Equipment Including Electrical Business Equipment, where the suitability of the combination is to be determined by the Canadian Standards Association.

Model GPC140-5, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 5 V/32 A; 160 W with 26 cfm airflow; 130 W with convection cooling, 120 W with cover.

Model GPC140-12, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 12 V/13.4 A; 160 W with 26 cfm airflow; 140 W with convection cooling, 120 W with cover.

Model GPC140-15, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 15 V/10.7 A; 160 W with 26 cfm airflow; 140 W with convection cooling, 120 W with cover.



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Models GPC140-24 and GPC140-24PO, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 24 V/6.7 A; 160 W with 26 cfm airflow; 140 W with convection cooling, 140 W with cover.

Models GPC140-28 and SP1382, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 28 V/5.8 A; 160 W with 26 cfm airflow; 140 W with convection cooling, 140 W with cover.

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

Component type power supplies for use with Medical Equipment, where the suitability of the combination is to be determined by the Canadian Standards Association.

Model GPM140-5, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 5 V/32 A; 160 W with 26 cfm airflow; 130 W with convection cooling, 120 W with cover.

Model GPM140-12, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 12 V/13.4 A; 160 W with 26 cfm airflow; 140 W with convection cooling, 120 W with cover.

Model GPM140-15, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 15 V/10.7 A; 160 W with 26 cfm airflow; 140 W with convection cooling, 120 W with cover.

Model GPM140-24, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 24 V/6.7 A; 160 W with 26 cfm airflow; 140 W with convection cooling, 140 W with cover.

Model GPM140-28, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 28 V/5.8 A; 160 W with 26 cfm airflow; 140 W with convection cooling, 140 W with cover.

Model GPM140-30, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 30 V/5.3 A; 160 W with 26 cfm airflow; 140 W with convection cooling, 140 W with cover.

Model MSP1363, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 12 V/13.4 A; 160 W with 26 cfm airflow.

Model MSP1402, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 4 A; dc outputs rated 17 V/9.2 A; 160 W with 26 cfm airflow; 140 W with convection cooling.



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Notes For The Above Product Classes:

1. Maximum ambient temperature for the max continuous output power is 50°C.
2. Model numbers may include the following suffixes:
  - C for cover
  - T for input and output terminal blocks
  - T1 for input terminal block or
  - T2 for output terminal block.

**APPLICABLE REQUIREMENTS**

- CAN/CSA-C22.2 No 0-M91 - General Requirements - Canadian Electrical Code, Part II
- 0.4-M1982 - Bonding and Grounding of Electrical Equipment (Protective Grounding)
- 950-M89 - Safety of Information Technology Equipment, Including Electrical Business Equipment
- 234-M89 - Safety of Component Power Supplies
- 601.1-M90 - Medical Electrical Equipment



Product Service

# CERTIFICATE

No. B 06 11 59743 016

**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):** GPC140-X Series  
(For further model information please see attachment)

**Parameters:**

Rated Input Voltage:	100-240 Vac
Rated Frequency:	50 / 60 Hz
Rated Input Current:	4.0 A
Rated DC Outputs:	See attachment
Protection Class:	I
See attachment for 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.:** 095-602128-000

**Date,** 2006-11-21

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Product Service

**ATTACHMENT TO CERTIFICATE NO. B 06 11 59743 016  
FOR SL POWER ELECTRONICS, CORP.**

**AC/DC SWITCHING POWER SUPPLIES**

**GENERAL PRODUCT INFORMATION:**

The GPC140-X Series includes Single Output models. The AC / DC Switching Power Supplies covered by this report are components for building in, which are intended for use in Information Technology Equipment.

**MODELS**

**GPC140-X Series** models are Single Output models, see below, where X may be 5, 12, 15, 24, 28; may be followed by suffixes: -T, -T1, -T2 -C, -XXX and/or G, where:

- T indicates terminal block used on input and output connectors;
- T1 indicates terminal block used on input;
- T2 indicates terminal block used on output;
- C indicates cover is provided;
- XXX indicates value added configurations that have no impact on safety, which may be any number from 001 thru 999;
- G indicates compliance to RoHS.

**GPC140-X Series**

**OUTPUT:** Maximum Continuous Power, total of all outputs at ambient of 50 °C. Refer to table for standard output voltage models

Model	Volts	MAXIMUM OUTPUT AMPS AND WATTS		
		CONVECTION COOLING		FORCED AIR COOLING
		Without Cover	With Cover	(1) With & Without Cover
GPC140-5	5	26.0 A 130 W	24.0 A 120 W	30.0 A 160 W
GPC140-12	12	11.7 A 140 W	10.0 A 120 W	13.3 A 160 W
GPC140-15	15	9.3 A 140 W	8.0 A 120 W	10.7 A 160 W
GPC140-24	24	5.8 A 140 W	5.8 A 140 W	6.7 A 160 W
GPC140-28	28	5.0 A 140 W	5.0 A 140 W	5.7 A 160 W

- Notes:
1. Minimum airflow for forced air-cooling is 26 CFM.
  2. Maximum ambient temperature for continuous output power specified above 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.

**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) Maximum operating temperature: 50 °C