

D E S C R I P T I O N

PRODUCT COVERED:

Component - Switching Power Supplies for Use in Information Technology Equipment, Models GPx200A, GPx200B, GPx200D, GPx200E, GPx200F, and GPx200-LMN. Where X is C or M, L is B, C, or D, M is A, B, C, Q, R, or S, and N is A, B, C, or D.

ELECTRICAL RATINGS:

Input: 100-240 V ac, 47-63 Hz, 5.5 A.

Output: Maximum Continuous Output Power at 50°C With 26 cfm Airflow = 200 Watts

Standard Models:

Model	Output #1 <sup>1</sup>	I <sub>sc</sub>	Output #2 <sup>1</sup>	I <sub>sc</sub>	Output #3	I <sub>sc</sub>	Output #4 <sup>2</sup>	I <sub>sc</sub>
GPC200A	+5V 26A <sup>5</sup>	25A	+12V 8.0A	15A	-12V 1.2A	2A	12V 4.0A	2A
GPC200B	+5V 26A <sup>5</sup>	25A	+12V 8.0A	15A	-5V 1.2A	2A	12V 4.0A	2A
GPC200D	+5V 26A <sup>5</sup>	25A	+24V 5.0A	15A	-12V 1.2A	2A	12V 4.0A	2A
GPC200E	+5V 26A <sup>5</sup>	25A	+24V 5.0A	15A	-15V 1.2A	2A	15V 4.0A	2A
GPC200F	+5V 26A <sup>5</sup>	25A	+12V 8.0A	15A	-12V 1.2A	2A	5V 4.0A	2A

Special Models: (Place Code Letters for desired outputs from Table below, example = GPC200-BAA)

GPC200- ( ) ( ) ( )

Output #1 <sup>1</sup>	Output #2 <sup>1</sup>	Output #3		Output #4 <sup>2</sup>
+5V 26A <sup>5</sup>	B = +12V 8.0A	A = -5V 1.2A	Q = -5V 2.4A	A = 5V 4.0A
(For all models)	C = +15V 8.0A	B = -12V 1.2A	R = -12V 2.4A	B = 12V 4.0A
	D = +24V 5.0A	C = -15V 1.2A	S = -15V 2.4A	C = 15V 4.0A
				D = 24V 2.0A

Notes:

1. The combined loads of Outputs No. 1 and No. 2 must not exceed 32 Amps.
2. Isolated output which may be referenced as a positive or negative voltage.
3. Maximum Relative Humidity 96%, no condensation.
4. I<sub>sc</sub> = Maximum output short circuit current.
5. Minimum load = 4A.

Standard Models:

Model	Output #1 <sup>1</sup>	I <sub>sc</sub>	Output #2 <sup>1</sup>	I <sub>sc</sub>	Output #3	I <sub>sc</sub>	Output #4 <sup>2</sup>	I <sub>sc</sub>
GPM200A	+5V 26A <sup>5</sup>	25A	+12V 8.0A	15A	-12V 1.2A	2A	12V 4.0A	2A
GPM200B	+5V 26A <sup>5</sup>	25A	+12V 8.0A	15A	-5V 1.2A	2A	12V 4.0A	2A
GPM200D	+5V 26A <sup>5</sup>	25A	+24V 5.0A	15A	-12V 1.2A	2A	12V 4.0A	2A
GPM200E	+5V 26A <sup>5</sup>	25A	+24V 5.0A	15A	-15V 1.2A	2A	15V 4.0A	2A
GPM200F	+5V 26A <sup>5</sup>	25A	+12V 8.0A	15A	-12V 1.2A	2A	5V 4.0A	2A

Special Models: (Place Code Letters for desired outputs from Table below, example = GPM200-BAA)

GPM200- ( ) ( ) ( )

Output #1 <sup>1</sup>	Output #2 <sup>1</sup>	Output #3		Output #4 <sup>2</sup>
+5V 26A <sup>5</sup>	B = +12V 8.0A	A = -5V 1.2A	Q = -5V 2.4A	A = 5V 4.0A
(For all models)	C = +15V 8.0A	B = -12V 1.2A	R = -12V 2.4A	B = 12V 4.0A
	D = +24V 5.0A	C = -15V 1.2A	S = -15V 2.4A	C = 15V 4.0A
				D = 24V 2.0A

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.

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 46516-148C

Revision: LR 46516-301C

Date Issued: April 22, 1999

Issued to: **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: Shane Stevenson, AScT.  
Vancouver, BC, Canada

Signature: \_\_\_\_\_

## PRODUCTS

CLASS 5311 03 - POWER SUPPLIES - Component Type

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

Model GPC200A and GPM200A, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 5.5 A; dc output rated 5 V/26 A, +12 V/8 A, -12 V/ 1.2 A, 12 V/4 A; 200 W with 26 cfm airflow, with or without cover.

Model GPC200B and GPM200B, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 5.5 A; dc output rated 5 V/26 A, +12 V/8 A, -5 V/ 1.2 A, 12 V/4 A; 200 W with 26 cfm airflow, with or without cover.

Model GPC200D and GPM200D, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 5.5 A; dc output rated 5 V/26 A, +24 V/5 A, -12 V/ 1.2 A, 12 V/4 A; 200 W with 26 cfm airflow, with or without cover.

Model GPC200E and GPM200E, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 5.5 A; dc output rated 5 V/26 A, +24 V/5 A, -15 V/ 1.2 A, 15 V/4 A; 200 W with 26 cfm airflow, with or without cover.

Model GPC200F and GPM200F, (Level 3), input rated 100-240 V (continuous), 47-63 Hz, 5.5 A; dc output rated 5 V/26 A, +12 V/8 A, -12 V/ 1.2 A, 5 V/4 A; 200 W with 26 cfm airflow, with or without cover.



Revision: LR 46516-301C

Special Models: GPC200 - XXX and GPM200 - XXX where X may be any letter noted in the table specifying desired outputs from the table.

Output #1	Output #2	Output #3		Output #4
+5V 26 A (For all models)	B = +12 V 8.0 A	A = -5 V 1.2 A	Q = -5 V 2.4 A	A = 5 V 4.0 A
	C = +15 V 8.0 A	B = -12 V 1.2 A	R = -12 V 2.4 A	B = 12 V 4.0 A
	D = +24 V 5.0 A	C = -15 V 1.2 A	S = -15 V 2.4 A	C = 15 V 4.0 A
				D = 24 V 2.0 A

Notes

- (a) Maximum ambient temperature for continuous output power specified is 50 °C.
- (b) Model numbers may include -C for cover.
- (c) The combined loads of Outputs #1 and #2 must not exceed 32 Amps.
- (d) The minimum load for Output #1 is 4 Amps.

APPLICABLE REQUIREMENTS

- CAN/CSA-C22.2 No 0-M1991 - General Requirements - Canadian Electrical Code, Part II
- C22.2 No 0.4 - M1982 - Bonding and Grounding of Electrical Equipment (Protective Grounding)
- CAN/CSA-C22.2 No 234 - M90 - Safety of Component Power Supplies



Product Service

# CERTIFICATE

No. B 06 11 59743 014

**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):** GPC200 Series  
(For further model information please see attachment)

**Parameters:**

Rated Input Voltage:	100-240 Vac
Rated Frequency:	50 / 60 Hz
Rated Input Current:	5.5 A
Protection Class:	I
Rated DC Outputs:	See attachment
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.:** 095-602129-000

**Date,** 2006-11-20

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Product Service

## ATTACHMENT TO CERTIFICATE NO. B 06 11 59743 014 FOR SL POWER ELECTRONICS, CORP.

### AC/DC SWITCHING POWER SUPPLIES

**GENERAL PRODUCT INFORMATION:**

The GPC200 Series includes Multiple 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.

**MODEL NUMBERS:**

**Standard Models:** GPC200A, GPC200B, GPC200D, GPC200E, GPC200F, and;

**Special Models:** Special Models GPC200-XYZ, where:

- X may be the letter B, C or D;
- Y may be the letter A, B, C, Q, R or S;
- Z may be the letter A, B, C or D.

**All Models** may be followed by suffixes: -C, -XXX and/or G, where

- 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; and
- G indicates compliance to RoHS.

**RATINGS:**

Input: 100-240 V ac, 5.5 A, 50/60 Hz

Output: Maximum continuous output power at 50 °C with external 26 CFM airflow = 200 W

**Standard Models:**

Model	Output #1 <sup>1</sup>	Output #2 <sup>1</sup>	Output #3	Output #4 <sup>2</sup>
GPC200A	+5 V 26 A <sup>3</sup>	+12 V 8.0 A	-12 V 1.2 A	12 V 4.0 A
GPC200B	+5 V 26 A <sup>3</sup>	+12 V 8.0 A	-5 V 1.2 A	12 V 4.0 A
GPC200D	+5 V 26 A <sup>3</sup>	+24 V 5.0 A	-12 V 1.2 A	12 V 4.0 A
GPC200E	+5 V 26 A <sup>3</sup>	+24 V 5.0 A	-15 V 1.2 A	15 V 4.0 A
GPC200F	+5 V 26 A <sup>3</sup>	+12 V 8.0 A	-12 V 1.2 A	5 V 4.0 A

**Special Models:**

(Place Code Letters for desired outputs from Table below; example = GPC200-BAA)

**GPC200-** ( ) ( ) ( )

Output #1 <sup>1</sup>	Output #2 <sup>1</sup>	Output #3	Output #4 <sup>2</sup>
+5 V 26 A <sup>3</sup> (For all models)	B = +12 V 8.0 A	A = -5 V 1.2 A    Q = -5 V 2.4 A	A = 5 V 4.0 A
	C = +15 V 8.0 A	B = -12 V 1.2 A    R = -12 V 2.4 A	B = 12 V 4.0 A
	D = +24 V 5.0 A	C = -15 V 1.2 A    S = -15 V 2.4 A	C = 15 V 4.0 A
			D = 24 V 2.0 A

- Notes: 1. The combined loads of Outputs No. 1 and No. 2 must not exceed 32 A.  
 2. Isolated output, which may be referenced as a positive or negative voltage.  
 3. Minimum load = 4 A.  
 4. Maximum Operating Relative Humidity 96 %, no condensation.  
 5. 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:

Report Number: 095-602129-000

2006-11-20