

File E135803
Project 91SC06314

Issued: July 4, 1991
Revised: August 23, 2007

REPORT

ON

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

* **SL Power Electronics, Corp.**
* **Ventura, California**

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component - Switching Power Supplies for Use in Information Technology Equipment, Models GPC80A, GPC80A-106, GPC80B, GPC80C, GPC80D, GPC80E, GPC80E-105, GPC80E-107, **GPC80E-112**, GPC80P, GPC80P-103, GPC80P-104, GPC80-5, GPC80-12, GPC80-15, GPC80-24, **GPC80-24-111**, GPC80-28, GPC80-48, SP1415, and SP1479. May or may not be followed by FB, PF, L, or LC. May or may not be followed by -XXXX where X = any number. May also be followed by suffix "G" which represents RoHS compliance (RoHS compliance has not been evaluated by UL).

ELECTRICAL RATINGS:

Input: 100-240 V ac, 50/60 Hz, 3.2 A.

Model SP1479: 100-120 V ac, 50/60 Hz, 3.2 A

Output:

Model	Output 1		Output 2		Output 3		Output 4		Output 5	
	V	A	V	A	V	A	V	A	V	A
GPC80A	5	12	12	3	-12	1	12	1		
GPC80A-106	5	12	12	3	-12	1	12	1		
GPC80B	5	12	12	3	-12	1	-5	1		
GPC80C	5	12	12	3			15	1		
GPC80D	5	12	24	2	-12	1	12	1		
GPC80E	5	12	24	2	-15	1	15	1		
GPC80E-105	5.1	12	24	3	-15	1	15	1		
GPC80E-107	5	12	24	2	-15	1	15	1	5	0.1
GPC80E-112	5	12	24	2	-15	1	15	1		
GPC80P	5	12	24	3.5	-12	1	12	2		
GPC80P-103	5	12	24	3.5	-12	1	12	2		
GPC80P-104	5	12	24	3.5	-12	1	12	2		
GPC80-5	5	13.8								
GPC80-12	12	6.25								
GPC80-15	15	5.3								
GPC80-24	24	3.4								
GPC80-24-1007	24	3.4								
GPC80-24-111	24	3.4								
GPC80-28	28	2.9								
GPC80-48	48	1.7								
SP1415	5	4	24	2	-15	0.5	-	0.25		
							24			
SP1479	5	4	12	3	-12	1.0	12	1		

NOTE: See ILL. 3 for additional ratings with alternate cooling.

The units have been evaluated for a maximum ambient of 50°C.

SUFFIXES:

FB - Flux Band
L - Chassis
PF - Power Fail
LC - Chassis and Cover
G - RoHS

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

* USR/CNR - Indicates investigation to U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CSA-C22.2 No. **60950-1-03** ♦ **UL 60950-1, 1st** Edition.

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

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

Tests on the 15 V secondary windings of various models were not done due to engineering consideration that the 24 V secondary winding represented the 15 V winding.

A schematic of Model GPC80D can be found in the Test Reference section. The schematic of Model GPC80D represents all

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

- *1. These components have been judged on the basis of the required spacings in the Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CSA-C22.2 No. **60950-1** ♦ **UL 60950-1, 1st** Edition, which covers the end-use product for which the component was designed.
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. Secondary circuits have not been investigated for secondary interconnection.
5. These units have been evaluated at 50/60 Hz.
- *6. This power supply has only been evaluated for use in a **Pollution Degree 2** environment.

7. 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.
8. 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 a protective earthing terminal. An additional evaluation shall be made if the power supply is intended for use in other than Class I equipment.
9. The secondary outputs of this power supply are considered SELV and non-energy hazardous energy levels.
10. This power supply was evaluated under the assumption that the power source is a TN-S system as defined by UL 60950-1.
11. This power supply has been 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.
12. The end use product shall ensure that a fuse replacement warning for Fuse F1, Fig. 1, Item 3 is provided.
13. The end use product shall ensure that the power supplies are used within their ratings with the appropriate cooling.
14. Consideration should be given to measuring the temperatures on power electronic components and transformer windings when the power supply is installed in the end-use equipment. All Primary to Secondary transformers are Class F (OBJY2). All inductors are rated to 130°C.

Model Differences (cont'd):

Models provided with suffix "G" are similar to the corresponding base models with exception to the Manufacturer's claim to RoHS compliance.

Model GPC80-24-111 is identical to Model GPC80-24 except for alternate RT1.

Model GPC80E-112 is identical to Model GPC80E except for alternate RT1.



Certificate of Compliance

Certificate: 1166448 (LR 46516C)

Master Contract: 150684

Project: 1728955

Date Issued: 2006/01/17

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, M.A.Sc. E.Eng.

Authorized by: Shane Stevenson, Product
Group Manager

PRODUCTS

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

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

CLASS 5311 07 - POWER SUPPLIES - Component Type

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

Model Numbers:

- Model GPC80A, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +12 V/3 A (4 A with 26 CFM airflow), -12 V/1 A (1.2 A with 26 CFM airflow), +12 V/1 A (1.2 A with 26



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CFM airflow); maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPC80B, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +12 V/3 A (4 A with 26 CFM airflow), -12 V/1 A (1.2 A with 26 CFM airflow), -5 V/1 A (1.2 A with 26 CFM airflow); maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPC80C, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +12 V/3 A (4 A with 26 CFM airflow), -15 V/1 A (1.2 A with 26 CFM airflow), +15 V/1 A (1.2 A with 26 CFM airflow); maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPC80D, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +12 V/3 A (4 A with 26 CFM airflow), -12 V/1 A (1.2 A with 26 CFM airflow), +24 V/2 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPC80E, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +15 V/1 A (1.2 A with 26 CFM airflow), -15 V/1 A (1.2 A with 26 CFM airflow), +24 V/2 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPC80E-107, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +15 V/1 A (1.2 A with 26 CFM airflow), -15 V/1 A (1.2 A with 26 CFM airflow), +24 V/2 A, +5 V/0.1 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPC80P, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +12 V/2 A, -12 V/1 A (1.2 A with 26 CFM airflow), +24 V/3.5 A (4.5 A with 26CFM airflow); maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPC80-5, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 5 V/20 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 68 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPC80-12, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 12 V/9.2 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 75 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPC80-15, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 15 V/7.3 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.



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- Model GPC80-24, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 24 V/4.6 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPC80-28, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 28 V/3.9 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPC80-48, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 48 V/2.3 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model SP1415, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/4 A, -15 V/0.5 A, -24 V/0.25 A, +24 V/2 A.

- Model SP1479, (Level 3), input rated 100-120 V, 50/60 Hz, 3.2 A; dc outputs rated +5 V/4 A, +12 V/3 A, -12 V/1 A, +12 V/1 A; maximum total output power: 80 W.

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

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

Model Numbers:

- Model GPM80A, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +12 V/3 A (4 A with 26 CFM airflow), -12 V/1 A (1.2 A with 26 CFM airflow), +12 V/1 A (1.2 A with 26 CFM airflow); maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPM80B, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +12 V/3 A (4 A with 26 CFM airflow), -12 V/1 A (1.2 A with 26 CFM airflow), -5 V/1 A (1.2 A with 26 CFM airflow); maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPM80C, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +12 V/3 A (4 A with 26 CFM airflow), -15 V/1 A (1.2 A with 26 CFM airflow), +15 V/1 A (1.2 A with 26 CFM airflow); maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPM80D, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +12 V/3 A (4 A with 26 CFM airflow), -12 V/1 A (1.2 A with 26 CFM airflow), +24 V/2 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.



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- Model GPM80E, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +15 V/1 A (1.2 A with 26 CFM airflow), -15 V/1 A (1.2 A with 26 CFM airflow), +24 V/2 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPM80P, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +12 V/2 A, -12 V/1 A (1.2 A with 26 CFM airflow), +24 V/3.5 A (4.5 A with 26CFM airflow); maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPM80-5, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 5 V/20 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPM80-12, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 12 V/9.2 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPM80-15, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 15 V/7.3 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPM80-24, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 24 V/4.6 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model GPM80-28, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 28 V/3.9 A; maximum total output power: 110 W with 26 CFM airflow, 90 W with 26 CFM airflow with cover and chassis, 80 W with convection cooling, and 40 W with convection cooling with chassis and cover.

- Model MSP1343, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 2.3 A; dc outputs rated +5 V/12 A, +15 V/3 A, -15 V/1 A, -5.2 V/1 A; 80 W maximum total output.

- Model MSP1362, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated 5 V/16 A; 80 W max total output.

- Model MSP1451, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/1.2 A, +15 V/1.2 A, -15 V/0.6, +26 V/0.8 A; maximum total output power: 54 W with convection cooling.

- Model MSP1482, (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +24 V/3.5 A, -12 V/1 A, +12 V/3 A; maximum total output power: 80 W with 15 CFM airflow.

- Model MSP1612, MSP1766 (Level 3), input rated 100-240 V (continuous), 50/60 Hz, 3.2 A; dc outputs rated +5 V/12 A, +12 V/3 A (4 A with 26 CFM airflow), -12 V/1 A (1.2 A with 26 CFM airflow), +12 V/1 A (1.2 A with 26 CFM airflow); maximum total output power: 110 W with 26 CFM airflow, 80 W with convection cooling.



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Notes

1. The model designations (except SPXXXX and MSPXXXX) may be followed by a " PF", "L" and/or "LC" suffix to indicate the Power Fail, chassis, and/or chassis with cover options respectively.
2. Maximum ambient temperature for continuous output power listed above is 50°C.

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-M90 Medical Electrical Equipment, Part 1: General Requirements for Safety

CSA Standard C22.2 No 0-M1991 General Requirements - Canadian Electrical Code, Part II

0.4-M1982 Bonding and Grounding of Electrical Equipment (Protective Grounding)

234-M90 Safety of Component Power Supplies



America

CERTIFICATE

No. B 08 11 59743 035

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): GPC80X Series, GPC80-X Series,
GPC80A-106, GPC80E-107,
GPC80-24-1007, GPC80-24-111, GPC80E-112,
SP1415 and SP1479
(For further model information please see attachment)

Parameters:

Input Voltage, AC:	100-240 V
Input Frequency:	50 / 60 Hz
Input Current:	3.2 A
Protection Class:	I
Output:	Model dependent
For further information, please see attachment.	

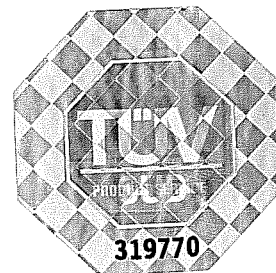
Tested according to: EN 60950-1/A11:2004

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. The certification mark must not be altered in any way. See also notes overleaf.

Test report no.: 095-602126-100

Date, 2008-11-20 *William A Wenthold*

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America

ATTACHMENT TO CERTIFICATE NO. B 08 10 59743 035 FOR SL POWER ELECTRONICS, CORP.

AC/DC SWITCHING POWER SUPPLIES

The GPC80 Series includes Single Output and Multi 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.

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

SINGLE OUTPUT MODELS

GPC80-X Series, models are single output power supplies where X represents the output voltage, where X represents the output voltage, which may be any number from 5 thru 48.

The GPC80-X Series models may be followed by suffix -PF, -L, -LC, -FB, -TB, -XXX, G

-PF to indicate optional power failure protection and/or;

-L to indicate optional "L" bracket and/or;

-LC to indicate optional "L" bracket and cover and/or;

-FB to indicate flux band and/or;

-TB to indicate optional terminal block is provided and/or;

-XXX to indicate value added configurations that have no impact on safety which may be any number from 001 thru 999 and/or;

G to indicate RoHS version.

Note: Models **GPC80-24-1007**, **GPC80-24-111** are exempt of the previous suffixes, these models are particular custom models evaluated accordance with the proper standard.

ATTACHMENT TO CERTIFICATE NO. B 08 10 59743 035
FOR SL POWER ELECTRONICS, CORP.



America

GPC80-X Series.

OUTPUT: 5 thru 48 V, 20 thru 2.3 A.

Without Cover 26 CFM	With Cover 26 CFM	Without Cover 0 CFM	With Cover 0 CFM
110 Watts	90 Watts	80 Watts	40 Watts

Notes:

1. Maximum operating ambient temperature is 50 °C.
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.

GPC80-24-1007 model is single output model. It is a custom (Special Purpose) variation of the GPC80-24 unit.

Output: Maximum Continuous Power, total of all outputs at ambient of 50 °C.	Without Cover 26 CFM	With Cover 26 CFM	Without Cover 0 CFM	With Cover 0 CFM
	110 Watts	90 Watts	80 Watts	40 Watts

Output		
	Note 3	Note 4
+24 V	3.4 A	4.6 A

- Notes:
1. Maximum Operating Relative Humidity 96 %, no condensation.
 2. Contact Condor Technical Support for airflow requirements when using chassis/cover option.
 3. Maximum ratings for 0 CFM airflow without chassis/cover.
 4. Maximum ratings for 26 CFM airflow.

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GPC80-24-111 model is single output model. It is a custom (Special Purpose) variation of the GPC80-24 America unit.

Output:	Maximum Continuous Power, total of all outputs at ambient of 50 °C.	Without Cover	With Cover	Without Cover	With Cover
		26 CFM	26 CFM	0 CFM	0 CFM
		110 Watts	90 Watts	80 Watts	40 Watts

Output		
	Note 3	Note 4
+24 V	3.4 A	4.6 A

Notes:

1. Maximum Operating Relative Humidity 96 %, no condensation.
2. Contact Condor Technical Support for airflow requirements when using chassis/cover option.
3. Maximum ratings for 0 CFM airflow without chassis/cover.
4. Maximum ratings for 26 CFM airflow.

MULTIPLE OUTPUT MODELS

GPC80X Series models are multiple output power supplies, see below, where X may be the letter A, B, C, D, E, or P

The GPC80X Series models may be followed by suffix -PF, -L, -LC, -FB, -TB, -XXX, G

- PF to indicate optional power failure protection and/or;
- L to indicate optional "L" bracket and/or;
- LC to indicate optional "L" bracket and cover and/or;
- FB to indicate flux band and/or;
- TB to indicate optional terminal block is provided and/or;
- XXX to indicate value added configurations that have no impact on safety which may be any number from 001 thru 999 and/or;
- G to indicate RoHS version.

Note: Models **GPC80A-106, GPC80E-107, GPC80E-112, SP1415, SP1979** are exempt of the previous suffixes, these models are particular custom models evaluated accordance with the proper standard.

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America

ATTACHMENT TO CERTIFICATE NO. B 08 10 59743 035 FOR SL POWER ELECTRONICS, CORP.

GPC80X Series

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

MODEL	Output #1 (Note 5)		Output #2 (Note 5)		Output #3		Output #4				
	Note 1	Note 2	Note 1	Note 2	Note 1	Note 2	Note 1	Note 2			
	Without Cover 26 CFM 110 Watts		With Cover 26 CFM 90 Watts		Without Cover 0 CFM 80 Watts		With Cover 0 CFM 40 Watts				
GPC80A	+5 V	12 A	+12 V	3.0 A	4.0 A	-12 V	1.0 A	1.2 A	+12 V	1.0 A	1.2 A
GPC80B	+5 V	12 A	+12 V	3.0 A	4.0 A	-12 V	1.0 A	1.2 A	-5 V	1.0 A	1.2 A
GPC80C	+5 V	12 A	+12 V	3.0 A	4.0 A	-15 V	1.0 A	1.2 A	+15 V	1.0 A	1.2 A
GPC80D	+5 V	12 A	+24 V	2.0 A	3.0 A	-12 V	1.0 A	1.2 A	+12 V	1.0 A	1.2 A
GPC80E	+5 V	12 A	+24 V	2.0 A	3.0 A	-15 V	1.0 A	1.2 A	+15 V	1.0 A	1.2 A
GPC80P	+5 V	12 A	+24 V	3.5 A	4.5 A	-12 V	1.0 A	1.2 A	+12 V	2.0 A	2.0 A

- Notes:
1. Maximum ratings for 0 CFM airflow without chassis/cover.
 2. Maximum ratings for 26 CFM airflow.
 3. Maximum Operating Relative Humidity 96 %, no condensation.
 4. Contact Condor Technical Support for airflow requirements when using chassis/cover option.
 5. Sum f outputs #1 & #2 not to exceed 14 A with 0 CFM airflow.

GPC80A-106 model is multi output model as well. It is a custom (Special Purpose) variation of the GPC80A unit.

Output: Maximum Continuous Power, total of all outputs at ambient of 50 °C

Without Cover 26 CFM	With Cover 26 CFM	Without Cover 0 CFM	With Cover 0 CFM
110 Watts	90 Watts	80 Watts	40 Watts

Output #1		Output #2		Output #3		Output #4				
Note 3	Note 4	Note 3	Note 4	Note 3	Note 4	Note 3	Note 4			
+5 V	12 A	+12 V	3.0 A	4.0 A	-12 V	1.0 A	1.2 A	+12 V	1.0 A	1.2 A

- Notes:
1. Maximum Operating Relative Humidity 96 %, no condensation.
 2. Contact Condor Technical Support for airflow requirements when using chassis/cover option.
 3. Maximum ratings for 0 CFM airflow without chassis/cover.
 4. Maximum ratings for 26 CFM airflow.

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GPC80E-107 model is multi output model as well. It is a custom (Special Purpose) variation of the GPC80E unit. With an extra output.

Output: Maximum Continuous Power, total of all outputs at ambient of 50 °C.	Without Cover	With Cover	Without Cover	With Cover
	26 CFM	26 CFM	0 CFM	0 CFM
	110 Watts	90 Watts	80 Watts	40 Watts

Output #1			Output #2			Output #3			Output #4			Output #5		
Note 3	Note 4		Note 3	Note 4		Note 3	Note 4		Note 3	Note 4		Note 3	Note 4	
+5V	12A	12A	+24V	2.0A	3.0A	-15V	1.0A	1.2A	+15V	1.0A	1.2A	5V	0.1A	0.1A

Notes:

1. Maximum Operating Relative Humidity 96 %, no condensation.
2. Contact Condor Technical Support for airflow requirements when using chassis/cover option.
3. Maximum ratings for 0 CFM airflow without chassis/cover.
4. Maximum ratings for 26 CFM airflow.

GPC80E-112 model is multi output model as well. It is a custom (Special Purpose) variation of the GPC80E

Output: Maximum Continuous Power, total of all outputs at ambient of 50 °C	Without Cover	With Cover	Without Cover	With Cover
	26 CFM	26 CFM	0 CFM	0 CFM
	110 Watts	90 Watts	80 Watts	40 Watts

Output #1			Output #2			Output #3			Output #4		
Note 3	Note 4		Note 3	Note 4		Note 3	Note 4		Note 3	Note 4	
+5 V	12 A	12 A	+24 V	2.0 A	3.0 A	-15 V	1.0 A	1.2 A	+15 V	1.0 A	1.2 A

Notes:

1. Maximum Operating Relative Humidity 96 %, no condensation.
2. Contact Condor Technical Support for airflow requirements when using chassis/cover option.
3. Maximum ratings for 0 CFM airflow without chassis/cover.
4. Maximum ratings for 26 CFM airflow.

William A. Wentworth





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SP1415 model is multi output model. may be followed by suffix G to indicate RoHS version.

Outputs: 82 W Maximum Continuous Power, total of all outputs at ambient of 50 °C.

Output #1	Output #2	Output #3	Output #4
+5 V / 4 A	+24 V / 2 A	-15 V / 0.5 A	-24 V 0.25 A

SP1979 model is multi output model. may be followed by suffix G to indicate RoHS version.

Outputs: 80 W Maximum Continuous Power, total of all outputs at ambient of 50 °C.

Output #1	Output #2	Output #3	Output #4
+5 V / 4 A	+12 V / 3 A	-12 V / 1 A	+12 V 1 A