

## GPC80 SERIES INSTALLATION INSTRUCTIONS

**MODEL NUMBERS:** GPC80X where X may be the letter A, B, C, D, E or P, and GPC80-X where X may be the number 5, 12, 15, 24, 28 or 48. Models may be followed by -PF, -L, -LC, -FB, -TB, -XXX and/or G. Suffix -PF indicates Power Failure, -L indicates L bracket, -LC indicates L bracket and cover, -FB indicates flux band, -TB indicates terminal block, -XXX indicates value added configurations that have no impact on safety which may be any number from 001 thru 999, and/or G indicates compliance to RoHS.

**RATINGS:**

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

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

MODEL	Output #1 (Note 3)			Output #2 (Note 3)			Output #3			Output #4		
		Note 1	Note 2		Note 1	Note 2		Note 1	Note 2		Note 1	Note 2
GPC80A	+5 V	12 A	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 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 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	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	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	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
GPC80-5	+5 V	16 A	20 A	Notes: 1. Maximum ratings for 0 CFM airflow. 2. Maximum ratings for 26 CFM airflow. 3. Sum of outputs #1 & #2 not to exceed 14A with 0 CFM airflow. 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.								
GPC80-12	+12 V	6.7 A	9.2 A									
GPC80-15	+15 V	5.3 A	7.3 A									
GPC80-24	+24 V	3.4 A	4.6 A									
GPC80-28	+28 V	2.9 A	3.9 A									
GPC80-48	+48 V	1.7 A	2.3 A									



**SAFETY DECLARATION:** SL Power Electronics Corp. declares under our sole responsibility that all models listed above are in conformity with the applicable requirements of EN60950-1 following the provisions of the Low Voltage Directive 73/23/EEC. All models are Certified to be in compliance with the applicable requirements of UL 60950, CSA 22.2 No. 60950 (L3M1), and EN/IEC 60950-1 for Pollution Degree 2 environment and Class I TN-S power systems. The output(s) of these supplies meet the requirements for SELV and are not an energy hazard.

**GROUNDING:** Protection Class I requires that J1, pin 1, and all of the pads around the mounting holes be bonded to Protective Earth in the end application. Metallic spacers should be used to mount supply to metal surfaces. When mounting to non-metallic surfaces, connect all mounting pads together and bond to earth. Using J1, pin 1, for the primary system earthing terminal is not recommended.

**SPACINGS:** The required creepage and clearance distances from primary circuits to ground and secondary circuits must be maintained after installation to preserve the intended safety.

**WARNING! RISK OF FIRE!** A blown fuse is an indication of catastrophic failure of circuit component(s). Repair must be performed by SL Power Electronics Corp. authorized personnel. Refer to fuse marking on the supply for type and rating.

### CONNECTIONS

J1 AC Input	J2 Multi-Output Models		J2 Single Output Models	
1) Ground	1) Output 1 (+)	8) Output 2 (+)	1) Output 1 (+)	8) Common
3) Neutral	2) Output 1 (+)	9) Output 2 (+)	2) Output 1 (+)	9) Common
5) Line	3) Output 1 (+)	10) Power Fail	3) Output 1 (+)	10) Power Fail
	4) Common	11) Output 3 (-)	4) Output 1 (+)	11) +Sense
	5) Common	12) Key	5) Common	12) Key
	6) Common	13) Output 4	6) Common	13) -Sense
	7) Common	(+ or -)	7) Common	

Mating Connectors
J1 Amp Housing 640250-5
J2 Amp Housing 1-640250-3
Amp Contact 770476-1

**CAUTION:**  
Do not exceed  
5 A per pin on J2.

SL Power Electronics Corp. will not be liable for the safety, reliability or performance of these power supplies if a) any changes, modifications or repairs are carried out by other than authorized agents of SL Power Electronics Corp., or b) the installation of the supply is not in accordance with these installation instructions and the applicable UL, CSA, and EN/IEC safety standards.