

## GPC55 SERIES INSTALLATION INSTRUCTIONS

**MODEL NUMBERS:** GPC55A, GPC55B, GPC55C, GPC55D, GPC55E, GPC55F and GPC55-X, where X represents the output voltage which may be any number from 5,12,15,24,28 or 48. Models may or may not be followed by suffix -XXX and/or G, where XXX may be any number from 001 thru 999. The -XXX suffix are used for value added configurations that have no impact on safety and/or suffix G to indicate compliance to RoHS.

**RATINGS:**

Input: 100-240 V ac, 1.7 A, 50/60 Hz

Outputs: 55 W Maximum Continuous Power - Total of all Outputs.

Model	Watts	Output #1	I <sub>sc</sub>	Output #2	I <sub>sc</sub>	Output #3	I <sub>sc</sub>	Output #4	I <sub>sc</sub>
GPC55A	55	+5 V dc 6 A	4 A	+12 V dc 3 A	4 A	+12 V dc 1 A	3 A	-12 V dc 1 A	3 A
GPC55B	55	+5 V dc 6 A	4 A	+12 V dc 3 A	4 A	-5 V dc 1 A	3 A	-12 V dc 1 A	3 A
GPC55C	55	+5 V dc 6 A	4 A	+15 V dc 3 A	4 A	-5 V dc 1 A	3 A	-15 V dc 1 A	3 A
GPC55D	55	+5 V dc 6 A	4 A	+24 V dc 1.5 A	2 A	+12 V dc 1 A	3 A	-12 V dc 1 A	3 A
GPC55E	55	+5 V dc 6 A	4 A	+24 V dc 1.5 A	2 A	+15 V dc 1 A	3 A	-15 V dc 1 A	3 A
GPC55F	55	+5 V dc 6 A	4 A	+12 V dc 3 A	2 A	+15 V dc 1 A	3 A	-15 V dc 1 A	3 A
GPC55-5	55	5 V dc 11 A	5 A	Notes: 1. I <sub>sc</sub> = Maximum output short circuit current. 2. Maximum ambient temperature for continuous output power of 55 W is 50 °C. 3. Maximum 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.					
GPC55-12	55	12 V dc 4.7 A	2 A						
GPC55-15	55	15 V dc 3.7 A	2 A						
GPC55-24	55	24 V dc 2.3 A	1 A						
GPC55-28	56	28 V dc 2.0 A	1 A						
GPC55-48	72	48 V dc 1.5 A	1 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 EN 60950-1 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 1950, CSA 22.2 No. 234-M90 (Level 3), and EN 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:** The Functional Earth (Ground) terminal J1-1 and all of the pads around the mounting holes must be bonded to Protective Earth in the host equipment. 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 J1-1 on the supply for the end product protective earthing terminal is not recommended. A separate dedicated protective earthing point should be used.

**SPACINGS:** Creepage and clearance distances from primary circuits to ground and secondary circuits, as defined in the applicable safety standards, must be maintained after installation to preserve the intended safety.

**TEMPERATURES:** The maximum operating temperatures of certain safety components, as defined in the applicable safety standards, must not be exceeded after installation to preserve the intended safety. The output power, ambient air temperature and the availability, amount, direction and/or restriction of airflow influence the temperatures of these components.

**WARNING! RISK OF FIRE!** A blown internal 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.

**WARNING! SHOCK HAZARD!** Dangerous voltages are present on some components, printed wiring traces and heatsinks.

### CONNECTIONS

J1 AC Input	J2 Multi-Output Models		J2 Single Output Models	
1) Ground	1) Output 2 (+)	6) Common	1) Output 1 (+)	6) Common
2) Neutral	2) Output 2 (+)	7) Common	2) Output 1 (+)	7) Common
3) Line	3) Output 1 (+)	8) Output 4 (-)	3) Output 1 (+)	8) N/C
	4) Output 1 (+)	9) Output 3 (+/-)	4) Output 1 (+)	9) N/C
	5) Common		5) Common	

EXPLANATION OF SYMBOLS	
	Alternating Current
	Direct Current
	Attention, Consult Accompanying Documents
	Attention, Dangerous Voltages
	Functional Earth (Ground)

MATING CONNECTORS	
J1	Amp P/N 640250-5, Contact
J2	Amp P/N 640250-9, Contact Amp P/N 770476-1

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, EN/IEC safety standards.

**OVERVOLTAGE PROTECTION:** Only output #1 is monitored for an overvoltage condition. The trip-point for a 5 volt output is 5.6 to 6.8 volts. In some applications where an overvoltage condition could result in a hazard as defined in applicable safety standards, redundant or additional overvoltage protection may be required. Consult factory for details.

**TEMPERATURES:** The maximum operating temperatures of certain safety components, as defined in the applicable safety standards, must not be exceeded after installation to preserve the intended safety. The output power, ambient air temperature and the availability, amount, direction and/or restriction of airflow influence the temperatures of these components.

**OVERCURRENT PROTECTION:** The internal fuse is located in the phase lead only. EN 60601-1 requires that both supply leads (phase and neutral) be protected against overcurrent. Complete overcurrent protection must be provided in the host equipment. Fuse ratings must not exceed that specified for the internal fuse, must meet the requirements of EN 60601-1 and be acceptable for the country in which the host equipment is to be installed.

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

**WARNING! SHOCK HAZARD!** Dangerous voltages are present on some components, printed wiring traces and heatsinks.

EXPLANATION OF SYMBOLS	
	Alternating Current
	Attention, Consult Accompanying Documents
	Attention, Dangerous Voltages
	Protective Earth (Ground)

### C O N N E C T I O N S

J1 AC Input	J2 Multi-Output Models		J2 Single Output Models	
1) Ground	1) Output 2 (+)	6) Common	1) Output 1 (+)	6) Common
2) Neutral	2) Output 2 (+)	7) Common	2) Output 1 (+)	7) Common
3) Line	3) Output 1 (+)	8) Output 4 (-)	3) Output 1 (+)	8) N/C
	4) Output 1 (+)	9) Output 3 (+/-)	4) Output 1 (+)	9) N/C
	5) Common		5) Common	

Mating Connectors  
 Amp Contact 770522-1  
 J1 Amp Housing 640250-5  
 J2 Amp Housing 640250-9

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

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