



POWER ELECTRONICS  
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## GPC225 SERIES INSTALLATION INSTRUCTIONS

**MODEL NUMBERS:** GPC225-X, where X represents the output voltage, which may be the number 5, 12, 15, 24, or 28. Models may or may not be followed by suffix -C, -XXX and/or G, where -C indicates optional cover is provided; 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 suffix G indicates compliance to RoHS.

**RATINGS:**

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

Outputs:

Model	Volts	MAXIMUM OUTPUT AMPERES AND WATTS		
		CONVECTION COOLING		FORCED AIR COOLING (1)
		Without Cover	With Cover	With & Without Cover
GPC225-5	5	34.0 A 170 W	30.0 A 150 W	45.0 A 225 W
GPC225-12	12	15.8 A 190 W	15.0 A 180 W	19.0 A 225 W
GPC225-15	15	12.7 A 190 W	12.0 A 180 W	15.0 A 225 W
GPC225-24	24	8.3 A 200 W	7.9 A 190 W	9.4 A 225 W
GPC225-28	28	7.1 A 200 W	6.8 A 190 W	8.0 A 225 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. Storage: -40 to +85 °C. Units should be allowed to warm-up under non-condensing conditions before application of power.
  4. Maximum Relative Humidity 96 %, no condensation.



**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, and EN 60950-1. They are certified for Pollution Degree 2 environment and Class I TN-S power systems. All DC Outputs are SELV under normal and single fault conditions.

**CAUTION:** The output power capability exceeds 240VA and must be considered an energy hazard.

**GROUNDING:** Protection Class I requires that the chassis and/or TB1-3 be bonded to Protective Earth in the end application. Using TB1-3 for the primary system earthing terminal is not recommended.

**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 fuse is an indication of catastrophic failure of circuit component(s). Repair must be performed by SL Power Electronics Corp. authorized personnel. Fuse F1 must be replaced with F 7 A 250 V (fast blow), UL Listed and CSA Certified type.

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

### CONNECTIONS

TB1	AC INPUT	J1		TB2	DC OUTPUTS
1	Line	1	Power Fail	1,2,7,8	+ Output
2	Neutral	2	- Sense	3,4,5,6	Common
3	Ground	3	+ Sense		
		4	N/C		

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

MATING CONNECTOR: J1 Amp 640621-4

**CAUTION:** Do not exceed 15 A per terminal on TB2. The load current should be evenly divided among all eight terminals to prevent excessive pwb temperatures.

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, IEC and/or EN safety standards.