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## GPFC125 SERIES INSTALLATION INSTRUCTIONS

**MODEL NUMBERS:** GPFC125X, where X represents the DC outputs listed in the table below. Models may or may not be followed by suffix -C, -XXX and/or G, where -C when used represents optional cover; 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, 2.5 A, 50/60 Hz

Outputs:

MODEL	Output #1			Output #2			Output #3			Output #4		
		Note 1	Note 2		Note 1	Note 2		Note 1	Note 2		Note 1	Note 2
GPFC125A	+5.0 V	9 A	16 A	+12.0 V	4.0 A	7.0 A	12 V	2.5 A	4 A	-12 V	0.3 A	1 A
GPFC125B	+5.0 V	9 A	16 A	+12.0 V	4.0 A	7.0 A	12 V	2.5 A	4 A	-5 V	0.3 A	1 A
GPFC125C	+5.0 V	9 A	16 A	+12.0 V	4.0 A	7.0 A	15 V	2.5 A	4 A	-15 V	0.3 A	1 A
GPFC125D	+5.0 V	9 A	16 A	+24.0 V	3.0 A	4.5 A	12 V	2.5 A	4 A	-12 V	0.3 A	1 A
GPFC125E	+5.0 V	9 A	16 A	+24.0 V	3.0 A	4.5 A	15 V	2.5 A	4 A	-15 V	0.3 A	1 A
GPFC125F	+5.0 V	9 A	16 A	+15.0 V	3.5 A	6.0 A	15 V	2.5 A	4 A	-5 V	0.3 A	1 A
GPFC125G	+5.0 V	9 A	16 A	+3.3 V	7.0 A	10.0 A	12 V	2.5 A	4 A	-12 V	0.3 A	1 A
GPFC125H	+3.3 V	9 A	16 A	+5.0 V	4.0 A	7.0 A	12 V	2.5 A	4 A	-12 V	0.3 A	1 A

50 W max. total power, convection cooling.

80 W max. total power, convection cooling, unit mounted to min. 12 x 12 x 0.125 in. thick aluminum plate.

125 W max. total power with min. 200 LFM airflow over unit.

125 W max. total power with min. 250 LFM airflow over unit, with optional cover (-C suffix).

- Notes:
1. Maximum ratings with convection cooling.
  2. Maximum ratings with forced air cooling.
  3. Maximum ambient temperature for rated output power is 50 °C.
  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.



**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 60950-1, CAN/CSA 22.2 No. 60950-1-03 (L3M1), 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.

**TEMPERATURES:** The maximum operating temperatures of components used in this supply must not be exceeded after installation. The orientation of the supply, output power, ambient temperature and the availability, amount, direction and/or restriction of natural airflow influences the temperatures of these components.

**GROUNDING:** The Earth (Ground) terminal J1-5 and/or chassis must be bonded to Protective Earth in the end application. Using J1-5 for the end product protective earthing terminal is not recommended. A separate dedicated protective earthing point should be used.

**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 internal fuse is an indication of catastrophic failure of circuit component(s). Repair must be performed by SL Power Electronics Corp. authorized personnel.

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

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

### CONNECTIONS

J1 Pin	Input	J3 Pin	Output	J3 Pin	Output	J2 Pin	
1	Line	1	Output #4 (-)	10,11	Output #2 (+)	1	Power Fail
3	Neutral	2,3,4	Output #1 (+)	12	Output #3 (+)	2	- Sense #1
5	Ground	5,6,7,8,9	Common	13	Output #3 (Rtn)	3	+ Sense #1
						4	Common

MATING CONNECTORS	
J1	Amp Housing 640250-5 Contact 770476-1
J2	Amp MTA-100 Receptacle
J3	Amp Housing 1-640250-3 Contact 770476-1

**CAUTION:** Do not exceed 5 A per contact on J3.

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.