

GPFC160 SERIES INSTALLATION INSTRUCTIONS

MODEL NUMBERS: GPFC160-X, where X represents the output voltage, which may be any number from 5 thru 48. May be followed by suffix –CF to indicate optional cover/fan and/or suffix –XXX where XXX may be any number from 001 thru 999 to indicate value added configurations that have no impact on safety and/or suffix G to indicate compliance to RoHS.

RATINGS:

Input: 100-240 V ac, 2.5 A, 50/60 Hz

Output: Refer to table for standard output voltage models.

5 thru 11.5 V @ 25 A or 127.5 W convection cooled; 31.3 A or 160 W with 26 cfm airflow and suffix –CF
 11.6 thru 48 V @ 11.7 A or 140 W convection cooled; 13.3 A or 160 W with 26 cfm airflow and suffix –CF

MODEL	Convection Cooled	26 CFM Airflow or Cover/Fan option (Suffix –CF)
GPFC160-5	5.1 V dc 25 A	5.1 V dc 31.3 A
GPFC160-12	12 V dc 11.7 A	12 V dc 13.3 A
GPFC160-15	15 V dc 9.3 A	15 V dc 10.7 A
GPFC160-24	24 V dc 5.8 A	24 V dc 6.7 A
GPFC160-28	28 V dc 5.0 A	28 V dc 5.7 A
GPFC160-48	48 V dc 2.9 A	48 V dc 3.4 A

- Notes:
1. Maximum ambient temperature for rated output power is 50 °C.
 2. Maximum Operating 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.



SAFETY DECLARATION: SL Power Electronics Corp. (SLPE) 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 2006/95/EC. All models are Certified to be in compliance with the applicable requirements of UL 60950-1, CAN/CSA 22.2 No. 60950-1 (L3M1), and EN 60950-1. They are certified for Pollution Degree 2 environment and Class I TN-S power systems.

TEMPERATURES: The maximum operating temperatures of components used in this supply must not be exceeded after installation. When operating supply with or without cover/fan option, 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. Keeping the temperature of the core of T4 below 110 °C will usually be sufficient to meet all other temperature requirements.

GROUNDING: The Protective Earth (ground) terminal or chassis must be bonded to Protective Earth in the host equipment. Using the Protective Earth terminal on the supply for grounding the host equipment is not recommended. A separate dedicated grounding point should be used.

OUTPUTS: All DC outputs are SELV under normal and single fault conditions.

ISOLATION: The components providing isolation from primary to secondary are 100 % tested at 3000 V ac. The creepage distance between primary and ground is 2.5 mm minimum; between primary and secondary circuits is 6.4 mm minimum. Secondary to ground creepage is not defined or controlled. 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 SLPE 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	AC Input	J2	Signal Out	J3	DC Output	J3	DC Output
1	AC Line	1	Power Fail	1	Output (+)	9	Return
3	AC Neutral	2	- Sense	2	Output (+)	10	Return
5	Earth	3	+ Sense	3	Output (+)	11	Return
		4	Common	4	Output (+)	12	Return
				5	Return	13	Output (+)
				6	Return	14	Output (+)
				7	Return	15	Output (+)
				8	Return	16	Output (+)

CAUTION: Do not exceed 5 A per pin on J3.

MATING CONNECTORS

J1	Amp Housing 640250-5 Contact 770476-1
J2	Amp MTA-100 Receptacle
J3	Amp Housing 1-640250-6 Contact 770476-1
Fan	Amp MTA-100 Receptacle