

GPC130 SERIES INSTALLATION INSTRUCTIONS

MODEL NUMBERS: GPC130X, where X may be the letter A, B, C, D, E or F. Models may be followed by suffixes: -T, -T1, -T2 -C, -XXX and/or G. Suffix -T indicates terminal block used on input and output connectors; -T1 indicates terminal block used on input; -T2 indicates terminal block used on output; -C indicates cover is provided; -XXX indicates value added configurations that have no impact on safety which may be any number from 001 thru 999; and G indicates compliance to RoHS.

RATINGS:

Input: 100-240 V ac, 3.5 A, 50/60 Hz

Outputs:

- 130 Watts Maximum Continuous Power {Total of all Outputs} at 50 °C with 26 CFM airflow.

- 110 Watts Maximum Continuous Power {Total of all Outputs} at 50 °C with convection cooling.

Model	Output #1	Output #2	Output #3	Output #4
GPC130A	+5 V 20 A	+12 V 5.0 A	-12 V 1.2 A	+12 V 1.2 A
GPC130B	+5 V 20 A	+12 V 5.0 A	-5 V 1.2 A	-12 V 1.2 A
GPC130C	+5 V 20 A	+12 V 5.0 A	-15 V 1.2 A	+15 V 1.2 A
GPC130D	+5 V 20 A	+24 V 3.5 A	-12 V 1.2 A	+12 V 1.2 A
GPC130E	+5 V 20 A	+24 V 3.5 A	-15 V 1.2 A	+15 V 1.2 A
GPC130F	+5V 20 A	+15V 4.0 A	-5 V 1.2 A	-15 V 1.2 A

- Notes:
1. Minimum airflow for forced air cooling with cover is 43 cfm.
 2. Operation with cover and no airflow is not recommended.
 3. Maximum operating 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.

CE SAFETY DECLARATION: SP 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 1950, CSA 22.2 No. 234 (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: Protection Class I requires that the chassis and/or J1-5/TB1-3 be bonded to Protective Earth in the end application. Using J1-5/TB1-3 for the primary system earthing terminal is not recommended.

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.

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 4 A 250 V, UL Listed and CSA Certified type.

C O N N E C T I O N S

J1	TB1	AC INPUT	J2	SIGNAL OUTPUTS	J3	TB2	DC OUTPUTS
1	1	Line	1	No Connection	1,2	1	Output #4 (+)
3	2	Neutral	2	Output #1 + Sense	3,4	2	Output #3 (-)
5	3	Ground	3	Output #1 - Sense	5,6	3	Output #2 (+)
			4	Power Fail	7-12	4-6	Common
					13-16	7,8	Output #1 (+)

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

MATING CONNECTORS:

CAUTION: Do not exceed 5 A per pin on J3 or 15 A per terminal on TB2.

J1	AMP Housing 640250-5 Contact 770476-1
J2	Amp 640456-4
J3	AMP Housing 1-640250-6 Contact 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, IEC/EN safety standards.