

GPM130 SERIES INSTALLATION INSTRUCTIONS

MODEL NUMBERS: GPM130X, where X may be the letter A, B, C, D or E. 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: Maximum Continuous Power at 50 °C (total of all outputs):
 130 W with 26 CFM airflow (43 CFM with cover); 110 W with convection cooling.

Model	Output #1	Output #2	Output #3	Output #4
GPM130A	+5 V 20 A	+12 V 5.0 A	-12 V 1.2 A	+12 V 1.2 A
GPM130B	+5 V 20 A	+12 V 5.0 A	-5 V 1.2 A	-12 V 1.2 A
GPM130C	+5 V 20 A	+12 V 5.0 A	-15 V 1.2 A	+15 V 1.2 A
GPM130D	+5 V 20 A	+24 V 3.5 A	-12 V 1.2 A	+12 V 1.2 A
GPM130E	+5 V 20 A	+24 V 3.5 A	-15 V 1.2 A	+15 V 1.2 A

Notes:

1. Operation with cover and no airflow is not recommended.
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.

CERTIFICATION: All models are Certified to be in compliance with the applicable requirements of UL 60601-1, CSA C22.2 No. 601.1 (L3M1) and EN 60601-1.

CLASSIFICATION:

- (5.1) Protection against electric shock = Class I
- (In accordance with sub-clause 5 of EN 60601-1) (5.2) Degree of protection against electric shock = Signal output or intermediate
- (5.3) Protection against harmful ingress of water = Ordinary (no protection)
- (5.5) Have not been evaluated for use in the presence of a flammable anaesthetic mixture with air, oxygen, or nitrous oxide. This evaluation is to be made on the end equipment by the OEM.
- (5.6) Mode of operation = Continuous

CE 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. They are certified for Pollution Degree 2 environment and Class I TN-S power systems.

GROUNDING: Protection Class I requires that the Earth (ground) terminal on the supply be bonded to Protective Earth in the end equipment. Using the earth terminal on the supply for the end product's protective earthing terminal is not recommended. A separate dedicated grounding point should be used.

OUTPUTS: The output(s) are intended for Signal Input/Signal Output and Intermediate Circuits only. The output(s) are not acceptable for patient connection without additional isolation. All DC outputs are SELV and are not at Hazardous Energy Level.

ISOLATION: The isolation voltage from primary to secondary is 4000 V ac. The creepage distance between primary and secondary circuits is 8 mm minimum. The required creepage and clearance distances from primary circuits to ground and secondary circuits 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.

OVERCURRENT PROTECTION: EN 60601-1 requires that both supply leads (phase and neutral) be protected against overcurrent. Only the phase lead is fused in the unit. Additional overcurrent protection must be provided in the host equipment. Fuses must be acceptable for the country in which the host equipment is to be installed and ratings must not exceed that specified for the internal fuse.

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. Refer to fuse marking on the supply for rating.

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

CONNECTIONS

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: J1, J3 | Amp MTA-156 Receptacle | J2 | Amp MTA-100 Receptacle

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

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.