

SL Power Electronics, Corp..
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INSTALLATION INSTRUCTIONS GLM50 MULTI OUTPUT SERIES

MODEL NUMBERS: GLM50X -YYYG, where X represents the output voltage selected from the Table below, -YYY represents Value Added Options not related to Safety and G represents compliance to RoHS. Model may be followed by suffix -C for chassis & cover option.

R A T I N G S

Input: 100-240 VAC, 1.4 A, 50/60 Hz

Output:

Model ¹	Watts ²	Output #1	Output #2	Output #3
GLM50A	50	+5.05VDC 4A	+12VDC 2.5A	-12VDC 0.2A
GLM50B	50	+5.05VDC 4A	+15VDC 2.5A	-15VDC 0.2A
GLM50D	50	+5.05VDC 4A	+24VDC 1.5A	-12VDC 0.2A
GLM50G	50	+3.3VDC 4A	+12VDC 2.5A	-12VDC 0.2A

Notes:

1. Model may be followed by -C for Chassis & Cover option.
2. -C option requires 24 cfm minimum airflow for full rated output power.
3. Maximum operating ambient is 50°C.
4. Maximum Relative Humidity 96%, no condensation.

CERTIFICATION: All models are Certified to be in compliance with the applicable requirements of UL/CSA/EN/IEC 60601-1.

CLASSIFICATION:

- (5.1) Protection against electric shock = Class I
- (In accordance with sub-clause 5 of IEC 601-1) (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



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 EN60950 following the provisions of the Low Voltage Directive 2006/95/EC.

GROUNDING: The Protective Earth (ground) terminal 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: Output common should be connected to Protective Earth in the end application. The output is intended for Protectively Earthed Signal Output and Intermediate Circuits only. The output is not acceptable for patient connection without additional isolation. The DC output is SELV under normal and single fault conditions.

OVERVOLTAGE PROTECTION: The output is monitored for an overvoltage condition. In some applications where an overvoltage condition could result in a hazard as defined in applicable safety standards, redundant or additional overvoltage protection may be required. Consult factory for details.

CAUTION: When performing Dielectric Strength Tests, catastrophic failure of the unit may result if a Dielectric Strength test voltage greater than 1800 V ac is applied between primary and secondary circuits. The components providing isolation from primary to secondary cannot be tested while installed in the power supply without overstressing basic (primary to ground) insulation. All isolating components are individually 100 % tested at 4800 V ac prior to installation.

ISOLATION: The creepage distance between primary and ground is 4 mm minimum; between primary and secondary circuits is 8 mm minimum. Secondary to ground creepage is not defined or controlled. The output common is bypassed to ground using a 2200 pF 1 kV capacitor. 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: The internal fuse is located in the phase lead only. EN 60601-1 requires that both supply leads (phase and neutral) be protected against overcurrent. Complete overcurrent protection must be provided in the host equipment. Fuse ratings must not exceed that specified for the internal fuse, must meet the requirements of EN 60601-1, and be acceptable for the country in which the host equipment is to be installed.






WARNING! RISK OF FIRE! A blown internal fuse is an indication of catastrophic failure of circuit component(s). Refer to fuse marking on the supply for rating. Repair must be performed by SLPE authorized personnel.

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

CONNECTIONS

RECOMMENDED MATING CONNECTORS	
J1	Amp Housing 640250-3 Contact 770522
J2	Amp Housing 640250-6 Contact 770522

J1 Pin	AC Input	J2 Pin	DC Output
1	Line	1	Output #2 (+)
3	Neutral	2	Output #1 (+)
		3	Output #1 (+)
		4	Common
		5	Common
		6	Output #3 (-)

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

SLPE 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 SLPE., 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.