



SL Power Electronics, Corp.
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INSTALLATION INSTRUCTIONS GLM65 SERIES

MODEL NUMBERS: GLM65-X-YYY-C G, where X is 5 or any number from 12 through 48, which represents the output voltage rating. May be followed by suffix –C to indicate optional chassis/cover and/or suffix –YYY where YYY 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, 1.5 A, 50/60 Hz

Output: 11 A or 65 W maximum or see table for standard output voltage models.


Model	Output	Watts
GLM65-5	+5.1 V dc 11 A ²	56 ²
GLM65-12	+12 V dc 5.4 A	65
GLM65-15	+15 V dc 4.3 A	65
GLM65-24	+24 V dc 2.7 A	65
GLM65-28	+28 V dc 2.3 A	65
GLM65-48	+48 V dc 1.35 A	65

Notes:

1. Maximum ambient temperature for rated output current is 50 °C.
2. Output rating at 11 A (56 W) requires 50 LFM airflow or derate to 9 A (46 W) maximum with convection cooling.
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.

CERTIFICATION: All models are Certified to be in compliance with the applicable requirements of UL 60601-1, CSA 22.2 No. 601.1, EN 60601-1, and IEC 60601-1.

CLASSIFICATION: (5.1) Protection against electric shock = Class I
 (In accordance with sub-clause 5 of IEC 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 anesthetic 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:** Condor DC Power Supplies, Inc. 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.

GROUNDING: The ground connection (quick connect tab) must be bonded to protective earth in the host equipment. Using this terminal for the system ground is not recommended. A separate dedicated grounding point should be used.

OUTPUT: Output common may 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 4700 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 Condor authorized personnel.

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

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

CONNECTIONS

J1 Pin	AC Input
1	Line
3	Neutral

J3 Pin	
1	+ Sense
2	- Sense

J2 Pin	DC Output
1	Output (+)
2	Output (+)
3	Output (+)
4	Return
5	Return
6	Return

MATING CONNECTORS

J1	Amp Housing 640250-3 Contact 770476-1
J2	Amp Housing 640250-6 Contact 770476-1
J3	Amp MTA-100 Receptacle

CAUTION: Do not exceed 5 A per pin on J2.

SL Power Electronics. 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., 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.