



CONDOR DC POWER SUPPLIES INC.  
2311 STATHAM PKWY  
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## GLM75 SINGLE OUTPUT SERIES INSTALLATION INSTRUCTIONS

**MODEL NUMBERS:** Model GLM75–X where X represents the output voltage, which may be any number from 5 thru 28. Models may be followed by suffix –L for chassis bracket.

### RATINGS:

Input: 100-240 V ac, 3.0 A, 50/60 Hz

Output: 5 thru 28 V, 20 thru 4 A

70 W maximum for output voltages from 5 thru 11 V with convection cooling

75 W maximum for output voltages from 12 thru 28 V with convection cooling

100 W maximum for output voltages from 5 thru 11 V with 26 CFM forced air cooling

110 W maximum for output voltages from 12 thru 28 V with 26 CFM forced air cooling

### Notes:

1. Maximum operating ambient temperature is 50 °C.
2. Maximum 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 2601-1 2<sup>nd</sup> Edition, CSA 22.2 No. 601.1-M90, EN 60601-1: 1990, and IEC 60601-1 (1988).

**CLASSIFICATION:** (5.1) Protection against electric shock = Class I  
(In accordance with (5.2) Degree of protection against electric shock = Signal output or intermediate sub-clause 5 (5.3) Protection against harmful ingress of water = Ordinary (no protection) of IEC 60601-1) (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:** 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 following the provisions of the Low Voltage Directive 73/23/EEC.

**GROUNDING:** The Earth (ground) terminal J1, pin 1, must be bonded to Protective Earth in the end application to preserve the intended safety. Using the Earth terminal on the supply for grounding the end product's protective earthing terminal is not recommended. A separate dedicated protective earthing point should be used.

**OUTPUT:** 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 0.01  $\mu$ F 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. UL 2601-1, CSA 22.2 No. 601.1, EN 60601-1, and IEC 60601-1 requires that both supply leads (phase and neutral) be protected against overcurrent except for permanently installed equipment. Complete overcurrent protection must be provided in the end equipment. Fuse ratings must not exceed that specified for the internal fuse, must be acceptable for the country in which the end equipment is to be installed.






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

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

J1 Pin	AC Input	J2 Pin	DC Output	J2 Pin	DC Output
1	Ground	1	+ Output	6	- Output
3	Neutral	2	+ Output	7	- Output
5	Line	3	+ Output	8	- Output
		4	+ Output	9	Power Fail
		5	- Output		

MATING CONNECTORS	
J1	Amp Housing 640250-5 Pin 770522-1
J2	Amp Housing 640250-9 Pin 770522-1

**CAUTION:** Do not exceed 5 A per contact.

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

Condor DC Power Supplies Inc. 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 Condor DC Power Supplies Inc., 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.