



CONDOR DC POWER SUPPLIES INC.
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INSTALLATION INSTRUCTIONS GLM110 SERIES

MODEL NUMBERS: GLM110-X, where X = 12, 15, 24, 212, 215, or 524. May be followed by suffix -L to indicate optional chassis or -LC to indicate chassis/cover and/or suffix -XXX where XXX 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, 2.9 A, 50/60 Hz

Output:

MODEL	Output	Volts	0 CFM 60 Watts Max With Cover	0 CFM 75 Watts Max Without Cover	26 CFM 110 Watts Max With or without cover
GLM110-12	#1	12	5.0 A	6.3 A	9.1 A
GLM110-15	#1	15	4.0 A	5.0 A	7.3 A
GLM110-24	#1	24	2.5 A	3.2 A	4.6 A
GLM110-212	#1	+12	5.0 A	6.3 A	9.1 A
	#2	-12	2.5 A	2.5 A	3.0 A
GLM110-215	#1	+15	4.0 A	5.0 A	7.3 A
	#2	-15	2.5 A	2.5 A	3.0 A
GLM110-524	#1	+24	2.5 A	3.2 A	4.6 A
	#2	+5	1.5 A	1.5 A	2.0 A

- Notes:
1. Maximum ambient temperature for rated output current is 50 °C.
 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 22.2 No. 601.1, and EN 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 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 60950-1 following the provisions of the Low Voltage Directive 73/23/EEC.

GROUNDING: Protection Class I requires that the ground terminal be bonded to Protective Earth in the end application. Using this terminal for the primary system earthing terminal is not recommended.

OUTPUTS: Output common or return 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 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	Single Output Models				Multi-Output Models			
		J2 Pin	DC Output	J2 Pin	DC Output	J2 Pin	DC Output	J2 Pin	DC Output
1	Ground	1	+ Output	8	Return	1	Output #1	8	Common
3	Neutral	2	+ Output	9	Return	2	Output #1	9	Common
5	Line	3	+ Output	10	Power Fail	3	Output #1	10	Power Fail
		4	+ Output	11	N/C	4	Output #1	11	N/C
		5	Return	12	N/C	5	Common	12	Output #2 (-)
		6	Return	13	N/C	6	Common	13	Output #2 (+)
		7	Return			7	Common		

MATING CONNECTORS	
J1	Amp/Tyco Housing 640250-5 Contact 640706-1
J2	Amp/Tyco Housing 1-640250-3 Contact 640706-1

CAUTION:
Do not exceed 5 A per contact.

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.