



DC POWER SUPPLIES INC.
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GLD140 SERIES INSTALLATION INSTRUCTIONS

MODEL NUMBERS: GLD140X-C or -CF where X equals any alpha character A through Z, -C is a slotted cover option and -CF is a solid cover with fan option. Models may be followed by suffix -XXX and/or G, where XXX may be any number from 001 thru 999. The -XXX suffix are used for value added configurations that have no impact on safety and suffix G indicates compliance to RoHS.

RATINGS:

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

Output:

Max Output Power at ambient of 50°C:

180 Watts maximum with cover/fan option or slotted cover with a minimum of 150 LFM airflow.

140 Watts maximum with no airflow and no cover.

Max Output Current in table below is with Convection / 150 LFM airflow cooling except GLD140H which is convection only.

Model	Output #1 <small>Note 2</small>		Output #2		Output #3		Output #4	
	Volts	Current	Volts	Current	Volts	Current	Volts	Current
GLD140A	5	16 / 20 A	12	6 / 8 A	12	4 / 5 A	-12	0.75 / 1.2 A
GLD140B	5	16 / 20 A	12	6 / 8 A	5	4 / 5 A	-12	0.75 / 1.2 A
GLD140C	5	16 / 20 A	12	6 / 8 A	15	4 / 5 A	-15	0.75 / 1.2 A
GLD140D	5	16 / 20 A	24	4 / 6 A	12	4 / 5 A	-12	0.75 / 1.2 A
GLD140E	5	16 / 20 A	24	4 / 6 A	15	4 / 5 A	-15	0.75 / 1.2 A
GLD140F	5	16 / 20 A	15	5 / 7 A	12	4 / 5 A	-12	0.75 / 1.2 A
GLD140G	5	16 / 20 A	3.3	10 / 12 A	12	4 / 5 A	-12	0.75 / 1.2 A
GLD140H	5	6 A	12	2.5 A	15	2 A	-15	2 A

Notes:

- For all models, fan output is 12 V dc, 0.25 A max.
- Minimum output current of 3 A is required on output #1 for proper regulation.
- Maximum Operating Relative Humidity 96 %, no condensation.
- 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 = Not acceptable for applied part without additional isolation (contact factory for details)
- (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: It is recommended that the output common or return be connected to Protective Earth in the end application. The output is not acceptable for patient connection without additional isolation. The DC output is SELV under normal and single fault conditions. Output #3 is isolated from Ground and may be referenced positive or negative.

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



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.

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.

FUSING: Fuses for both Line and Neutral are provided in the power supply. A blown fuse is an indication of catastrophic failure of circuit component(s). Repair must be performed by Condor authorized personnel. Refer to fuse markings for type and rating.

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	AC Input	J2	Signal Out	J3	DC Output	J5 FAN
1	Earth	1	+ Sense	9, 10, 19, 20	V1	1 Fan Return
3	AC Neutral	2	- Sense	5, 14, 15	V2	2 + Fan
5	AC Line	3	Power Fail	4	V2 Sense	
		4	Power Good	1	V3	
		5	Common	11	V3 Return	
		6	Inhibit	2	V4	
				3, 6-8, 12, 13, 16-18	Common	

MATING CONNECTORS

J1: Molex P/N 39-01-4051 (Housing)

Molex P/N 39-00-0038 (Pins)

J2 and FAN: Amp MTA-100 Receptacle

J3: Molex P/N 39-01-2200 (Housing)

Molex P/N 39-00-0038 (Pins)

CAUTION: Do not exceed 7 A per pin on connector J3

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.