



CONDOR DC POWER SUPPLIES INC.
2311 STATHAM PKWY
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GPFM600-24 INSTALLATION INSTRUCTIONS

RATINGS:

Input: 100-240 V ac, 10 A, 50/60 Hz

Output: 24 V dc, 25 A

Notes:

1. Maximum operating ambient temperature is 60 °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.

SAFETY COMPLIANCE STANDARDS: All models are Certified to be in compliance with the applicable requirements of UL 2601-1 2nd Edition, CSA 22.2 No. 601.1-M90, IEC 601-1, and EN 60601-1: A2 1995.

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 = 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

⚡⚡⚡ WARNING! RISK OF FIRE! SHOCK HAZARD! ⚡⚡⚡

Dangerous voltages are present on some components, printed wiring traces and heatsinks.

GROUNDING: The ground terminal, J1 Pin 3, should be bonded to Protective Earth in the end application. However, using this terminal for the end product protective earthing terminal is not recommended. A separate dedicated protective earthing point should be used.

FUSING: External fuses for both Line and Neutral must be provided when the host equipment uses a Power Supply Cord. For permanently installed equipment the neutral conductor shall not be fused.

Recommended fuse value is T 12 A 250 V. The fuses must meet the requirements of UL 2601-1, CSA 22.2 No. 601.1, IEC 601-1, and EN 60601-1 and be acceptable for the country in which the host equipment is to be installed. A blown fuse is an indication of catastrophic failure of circuit component(s). Repair must be performed by Condor authorized personnel.

OUTPUTS: Either the + or - output 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.

DIELECTRIC STRENGTH TEST CAUTION: When performing Dielectric Strength Tests, catastrophic failure of the unit may result if a Dielectric Strength test voltage greater than 1800 Vac 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 Vac prior to installation.

MAINTAINING 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 is bypassed to ground with a 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.

CONNECTIONS





J1	AC Input	J2	Function
1	Line	1,2,8,9	+24 V dc Output
2	Neutral	3,4,10,11	Common
3	Earth	5	N/C
		6	AC Good
		7	AC Good Return
		12	N/C
		13	DC Good
		14	DC Good Return

MATING CONNECTORS

J1: Molex P/N 44441-2003 (Housing)
Molex P/N 43375-0001 (Pins)

J2: Molex P/N 39-01-2145 (Housing)
Molex P/N 5556/44476 (Pins)

CAUTION: Do not exceed 7 A per pin on connector J2

EXPLANATION OF SYMBOLS	
	Alternating 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.