



CONDOR DC POWER SUPPLIES INC.
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GPFM250 SERIES INSTALLATION INSTRUCTIONS

MODEL NUMBERS: GPFM250-X where X represents the output voltage, which may be any number from 3.3 thru 48. Models may or may not be followed by suffix -C, which indicates optional cover/fan, suffix -H, which indicates the Neutral fuseholder/fuse removed and replaced with a jumper on the PWB, suffix -YYY and/or G, where YYY may be any number from 001 thru 999. The -YYY 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, 6 A, 50/60 Hz

Output: Maximum volts = 48 V dc

Maximum current = 50 A

Maximum watts = 180 W convection cooled,

250 W with cover/fan option or minimum 150 LFM airflow.

- Notes:
1. Maximum ambient temperature for rated output power 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, IEC/EN 60601-1.

CLASSIFICATION: (5.1) Protection against electric shock = Class I
(In accordance with (5.2) Degree of protection against electric shock = Signal output or intermediate
clause 5 of (5.3) Protection against harmful ingress of water = Ordinary (no protection)
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 60950-1 following the provisions of the Low Voltage Directive 73/23/EEC.

GROUNDING: Protection Class I requires that the chassis and/or TB1-3 be bonded to Protective Earth in the end application. Using TB1-3 for the end product's protective earthing terminal is not recommended. A separate dedicated protective earthing point should be used.

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.

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 on all models except models with –H suffix.

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

TB1	AC Input	TB2	DC Output	J2	Signal Out	FAN	
L	AC Line	1	Output (+)	1	DC Good	1	12 V (-)
N	AC Neutral	2	Output (+)	2	Power Fail	2	12 V (+)
	Earth	3	Return	3	Ext Off		
		4	Return	4	+ Sense		
				5	- Sense		

MATING CONNECTORS

J2 and FAN: Amp MTA-100 Receptacle

CAUTION: Do not exceed 20 A per terminal on terminal Block TB2; 60 A peak on buss bars (3.3 & 5 V models).

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.