



CONDOR DC POWER SUPPLIES INC.
2311 STATHAM PKWY
OXNARD, CA 93033 + 805-486-4565

INSTALLATION INSTRUCTIONS GPFM125 SERIES

RATINGS:

Input: 100-240 V ac, 2.5 A, 50/60 Hz

Outputs:

MODEL	Output #1		Output #2		Output #3		Output #4					
	Note 1	Note 2	Note 1	Note 2	Note 1	Note 2	Note 1	Note 2				
GPFM125A	+5.0 V	9 A	16 A	+12.0 V	4.0 A	7.0 A	12 V	2.5 A	4 A	-12 V	0.3 A	1 A
GPFM125B	+5.0 V	9 A	16 A	+12.0 V	4.0 A	7.0 A	12 V	2.5 A	4 A	-5 V	0.3 A	1 A
GPFM125C	+5.0 V	9 A	16 A	+12.0 V	4.0 A	7.0 A	15 V	2.5 A	4 A	-15 V	0.3 A	1 A
GPFM125D	+5.0 V	9 A	16 A	+24.0 V	3.0 A	4.5 A	12 V	2.5 A	4 A	-12 V	0.3 A	1 A
GPFM125E	+5.0 V	9 A	16 A	+24.0 V	3.0 A	4.5 A	15 V	2.5 A	4 A	-15 V	0.3 A	1 A
GPFM125F	+5.0 V	9 A	16 A	+15.0 V	3.5 A	6.0 A	15 V	2.5 A	4 A	-5 V	0.3 A	1 A
GPFM125G	+5.0 V	9 A	16 A	+3.3 V	7.0 A	10.0 A	12 V	2.5 A	4 A	-12 V	0.3 A	1 A
GPFM125H	+3.3 V	9 A	16 A	+5.0 V	4.0 A	7.0 A	12 V	2.5 A	4 A	-12 V	0.3 A	1 A

50 W max. total power, convection cooling.

80 W max. total power, convection cooling, unit mounted to min. 12 x 12 x 0.125 in. thick aluminum plate.

125 W max. total power with min. 200 LFM airflow over unit.

125 W max. total power with min. 250 LFM airflow over unit, with optional cover (-C suffix).

- Notes:
1. Maximum ratings with convection cooling.
 2. Maximum ratings with forced air cooling.
 3. Maximum ambient temperature for rated output power is 50°C.
 4. Maximum Operating Relative Humidity 96%, no condensation.
 5. 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, CSA 22.2 No. 601.1-M90, EN 60601-1: A2 (1995).

CLASSIFICATION:

- (5.1) Protection against electric shock = Class I
- (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 EN60950 following the provisions of the Low Voltage Directive 73/23/EEC.

GROUNDING: The Functional Earth (Ground) terminal J1-5 and/or chassis must be bonded to Protective Earth in the end application. Using J1-5 for the end product 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 outputs are intended for Protectively Earthed Signal Output and Intermediate Circuits only. The outputs are not acceptable for patient connection without additional isolation. The DC outputs are SELV under normal and single fault conditions.

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OVERVOLTAGE PROTECTION: Output #1 on all models, and #2 (GPFM125G & GPFM125H only) are 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.

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
	Functional Earth (Ground)

CONNECTIONS

J1 Pin	AC Input	J3 Pin	DC Output	J2 Pin	DC Output
1	Line	1	Output #4 (-)	1	Power Fail
3	Neutral	2,3,4	Output #1 (+)	2	- Sense #1
5	Ground	5,6,7,8,9	Common	3	+ Sense #1
		10,11	Output #2 (+)	4	Common
		12	Output #3 (+)		
		13	Output #3 (Rtn)		

MATING CONNECTORS	
J1	Amp Housing 640250-5 Contact 770476-1
J2	Amp MTA-100 Receptacle
J3	Amp Housing 1-640250-3 Contact 770476-1

CAUTION: Do not exceed 5 A per contact on 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.