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

GPFM1200-48
INSTALLATION INSTRUCTIONS

RATINGS:
Input: 100-240 V ac, 18.0 A, 50/60 Hz
Output: +48 V dc/25 A, +12 V dc/0.3 A (Aux)

Notes:
1. Maximum ambient temperature for rated output is 50°C.
2. Auxiliary +12 V output may be used to power external logic and/or fan.
3. Maximum Operating Relative Humidity 96%, no condensation.
4. 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, 2nd Ed (1997), CAN/CSA 22.2 No. 601.1-M90, EN 60601-1: A2 (1995), and IEC 60601-1: A2 (1995).

CLASSIFICATION:
(In accordance with sub-clause 5 of IEC 601-1)

(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

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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 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 end-product protective earthing terminal is not recommended. A separate dedicated protective earthing point should be used.

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. The output presents an Energy Hazard.

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: The internal fuse is located in the phase lead only. UL 2601-1, CAN/CSA 22.2 No. 601.1-M90, EN 60601-1, and IEC 60601-1 requires that both supply leads (phase and neutral) be protected against overcurrent except for permanently installed equipment. Complete overcurrent protection must be provided in the end-use equipment. Fuse ratings must not exceed that specified for the internal fuse. 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.

C O N N E C T I O N S

TB1	AC Input
1	Line
2	Neutral
3	Earth

J2	DC Output
5, 6, 7, 12, 13, 14	+48 V
1, 2, 3, 8, 9, 10	Common

J203	Signals/DC Output
1	+12 V (Aux)
2	Fan Fail
3	Over Temp
4	AC Fail
5	Inhibit
6	Return
7	Master Enable

EXPLANATION OF SYMBOLS	
~	Alternating Current
⎓	Direct Current
	Attention, Consult Accompanying Documents
	Attention, Dangerous Voltages
	Earth (Ground)

MATING CONNECTORS

J2: Molex P/N 39-01-2145 (Housing)
Molex P/N 39-00-0038 (Pins)

J203: Molex P/N 50-37-5073 (Housing)
Molex P/N 08-70-1039 (Pins in Reel)

CAUTION: Do not exceed 5 A per pin on connector J2