

INSTALLATION INSTRUCTIONS

GSM25 SERIES

RATINGS

Input: 100-240 V ac, 0.9 A, 50/60 Hz

Outputs:

Model	Watts ¹	Output #1	Output #2	Output #3
GSM25A	25	+5.1 V dc 2.5 A	+12 V dc 1.5 A	-12 V dc 0.2 A
GSM25B	25	+5.1 V dc 2.5 A	+15 V dc 1.5 A	-15 V dc 0.2 A
GSM25D	25	+5.1 V dc 2.5 A	+24 V dc 1 A	-12 V dc 0.2 A
GSM25G	25	+3.3 V dc 2.5 A	+12 V dc 1.5 A	-12 V dc 0.2 A

Notes:

1. Maximum continuous output power with Chassis and Cover option is 20 W.
2. Maximum operating ambient is 50 °C.
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 Edition, CSA 22.2 No. 601.1-M90, IEC 601-1 (1988)/EN 60601-1: 1990 +A1 +A2

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 = Signal output or intermediate
(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

GROUNDING: The Functional Earth terminal must be bonded to Protective Earth in the host equipment. Using the Functional Earth terminal on the supply for the grounding the host equipment is not recommended. A separate dedicated grounding point should be used.

OUTPUTS: All output commons should be connected to Protective Earth in the end application. The output(s) are intended for Protectively Earthed Signal Output and Intermediate Circuits only. The output(s) are not acceptable for patient connection without additional isolation. All DC outputs are SELV under normal and single fault conditions.

OVERVOLTAGE PROTECTION: Only output #1 is monitored for an overvoltage condition. The trip-point for a 5 volt output is 5.6 to 6.8 volts. 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.





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 common is bypassed to ground using a 4.7 μ F 1 kV 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.

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). Repair must be performed by Condor authorized personnel. Refer to fuse marking on the supply for rating.

WARNING! SHOCK HAZARD! Dangerous voltages are present on some components, printed wiring traces and heatsinks.

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

CONNECTIONS

J1 Pin	AC Input	J2 Pin	DC Output
1	Line	1	Output #2 (+)
3	Neutral	2	Output #1 (+)
		3	Output #1 (+)
		4	Common
		5	Common
		6	Output #3 (-)

MATING CONNECTORS	
J1	Amp Housing 640250-3 Contact 770476-1
J2	Amp Housing 640250-6 Contact 770476-1

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.