

GNT60 SERIES INSTALLATION INSTRUCTIONS

MODEL NUMBERS: GNT60-X-YYYG, where X = 12, 15, 18, 24 or 48 which represents the output voltage rating, -YYY is value added options not related to Safety and G represents ROHS Compliance

RATINGS:

Input: 100-240 V ac, 1.5 A, 50/60 Hz

Output:


| MODEL | 40 °C Ambient Convection Cooled | 50 °C Ambient Convection Cooled | 50 °C Ambient 100 LFM Airflow |
|----------|------------------------------------|------------------------------------|----------------------------------|
| GNT60-12 | 12 V dc 4.2 A | 12 V dc 3.35 A | 12 V dc 5.0 A |
| GNT60-15 | 15 V dc 4.0 A | 15 V dc 3.7 A | 15 V dc 4.35 A |
| GNT60-18 | 18 V dc 3.35 A | 18 V dc 3.1 A | 18 V dc 3.6 A |
| GNT60-24 | 24 V dc 2.1 A | 24 V dc 1.9 A | 24 V dc 2.7 A |
| GNT60-48 | 48 V dc 1.35 A | 48 V dc 1.25 A | 48 V dc 1.35 A |

Notes:

1. Maximum Operating Relative Humidity 96 %, no condensation.
2. 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 CSA 22.2 No. 601.1 and EN/IEC/UL 60601-1. In addition, all models (except GNT60-18) are Certified to be in compliance with EN/IEC/UL/CSA 60950-1.

CLASSIFICATION: (5.1) Protection against electric shock = Class I
 (In accordance with sub-clause 5 of IEC 60601-1) (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

 **SAFETY DECLARATION:** SL Power Electronics Corp. (SLPE) 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 2006/95/EC.

GROUNDING: The ground connection (quick connect tab) must be bonded to protective earth in the end equipment. Using this terminal for the system ground is not recommended. A separate dedicated grounding point should be used.

OUTPUT: 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.





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 1000 pF, “Y” 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: Fuses for both Line and Neutral are provided in the power supply. NOTE: For use in permanently installed equipment, remove Fuse F2 and replace with a jumper wire.

WARNING! RISK OF FIRE! A blown internal fuse is an indication of catastrophic failure of circuit component(s). Refer to fuse marking on the power supply for rating. Repair must be performed by SLPE authorized personnel.

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 |
|  | Earth (Ground) |

CONNECTIONS

| J1 Pin | AC Input |
|--------|----------|
| 1 | Line |
| 3 | Neutral |

| J2 Pin | DC Output |
|--------|------------|
| 1 | Output (+) |
| 2 | Output (+) |
| 3 | Return |
| 4 | Return |

MATING CONNECTORS

| | |
|----|---------------------------------------|
| J1 | Amp Housing 640250-3 Contact 770476-1 |
| J2 | Amp Housing 640250-4 Contact 770476-1 |

SLPE 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 SLPE, or b) the installation of the supply is not in accordance with these installation instructions and the applicable UL, CSA, EN, and IEC safety standards.