

Xantrex GT Series Grid Tie Solar Inverters

Performance and Value



Xantrex GT Series Grid Tie Solar Inverters

Xantrex photovoltaic string inverters offer high efficiency, clean aesthetics, high reliability as well as lower installed cost through time-saving installation and included features. The result is a high-performance inverter that makes utility-interactive installations easier and more cost effective.

Technology

- ▶ Proven high-frequency design in a compact enclosure
- ▶ Integrated DC/AC disconnect that is NEC compliant to eliminate the need for external DC (PV), and in some jurisdictions, AC disconnects
- ▶ Large heat sink offers extraordinary heat dispersion without the need for a cooling fan
- ▶ Backlit, two-line, 16-character liquid crystal display (LCD) provides instantaneous power, daily and lifetime energy production, photovoltaic array voltage and current, utility voltage and frequency, time online "selling" today, fault messages, and installer customized screens
- ▶ Bright LED indicators provide system status at-a-glance
- ▶ LCD vibration sensor allows the tap of a finger to turn backlight on and to cycle through display screens
- ▶ Integrated RS232 and Xantrex™ RJ45 communication ports
- ▶ Free PC software for remote monitoring and system troubleshooting available online

Installation

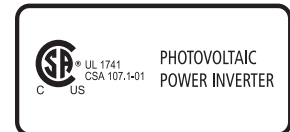
- ▶ Flexible module selection and sizing due to wide PV input MPPT tracking voltage range
- ▶ Lightweight and versatile mounting bracket simplifies installation
- ▶ Modular design allows inverters to be mounted side-by-side, using each wiring box as a wiring raceway
- ▶ Easy access DC (photovoltaic) and AC (utility) terminal block simplifies wiring
- ▶ Integrated, lockable AC/DC disconnect saves installation time and balance of system component cost
- ▶ Rugged NEMA 3R inverter enclosure allows reliable outdoor and indoor installations

Performance

- ▶ Best-in-class efficiency to maximize investment of solar system
- ▶ Accurate MPPT tracking ensures maximum energy harvest under any condition
- ▶ Excellent thermal performance
- ▶ FCC Part B compliance means less potential interference with communication, radio, and consumer electronics

Serviceability

- ▶ Five-year standard warranty (an additional five-year extended warranty is available)
- ▶ Sealed inverter enclosure can be separated from the wiring box allowing DC/AC connections to remain intact in the unlikely event the inverter needs to be serviced



Xantrex Technology Inc.
Customer Service/Technical Support
customerservice@xantrex.com
Toll free: 1-800-670-0707

www.xantrex.com

Xantrex GT Series Grid Tie Solar Inverters

| Electrical Specifications | | | | | |
|-----------------------------------|-----------------|-----------------|------------------------------------|-----------------|-----------------|
| Models | GT2.5-NA-DS-240 | GT3.0-NA-DS-240 | GT3.3-NA-DS-240 GT3.3-NA-DS 208 | GT3.8-NA-DS-240 | GT5.0-NA-DS-240 |
| Maximum AC power output | 2500 W | 3000 W | 3300 W | 3800 W | 5000 W |
| AC output voltage (nominal) | 240 Vac | 240 Vac | 240 Vac 208 Vac | 240 Vac | 240 Vac |
| AC output voltage range | 211 - 264 Vac | 211 - 264 Vac | 211 - 264 Vac 183 - 228 Vac | 211 - 264 Vac | 211 - 264 Vac |
| AC frequency (nominal) | 60 Hz | 60 Hz | 60 Hz | 60 Hz | 60 Hz |
| AC frequency range | 59.3 - 60.5 Hz | 59.3 - 60.5 Hz | 59.3 - 60.5 Hz | 59.3 - 60.5 Hz | 59.3 - 60.5 Hz |
| Maximum continuous output current | 11.8 A | 14.2 A | 15.6 A 18 A | 16 A | 23 A |
| Current THD | < 3% | < 5% | < 3% | < 3% | < 2% |
| Power factor | > 0.9 | > 0.9 | > 0.9 | > 0.9 | > 0.9 |
| DC input voltage range | 195 - 600 Vdc | 195 - 600 Vdc | 195 - 600 Vdc | 195 - 600 Vdc | 235 - 600 Vdc |
| Peak power tracking voltage range | 195 - 550 Vdc | 195 - 550 Vdc | 195 - 550 Vdc | 195 - 550 Vdc | 235 - 550 Vdc |
| Peak inverter efficiency | 94.8% | 94.6% | 95.3% 94.7% | 95.7% | 96.5% |
| CEC efficiency | 94.0% | 94.5% | 94.5% 94.0% | 95.0% | 95.5% |
| Night-time power consumption | 1 W | 1 W | 1 W | 1 W | 1 W |
| Output over-current protection | 15 A | 20 A | 20 A 25 A | 20 A | 30 A |

| Mechanical Specifications | |
|---------------------------------|--|
| Operating temperature range | -13°F to +149°F (-25°C to +65°C) |
| Enclosure type | NEMA 3R (outdoor rated) |
| Unit weight | 49.0 lbs (22.2 kg) to 58.0lb (25.8 kg) |
| Shipping weight | 57.0 lbs (25.9 kg) to 65.0lb (27.2 kg) |
| Shipping dimensions (H x W x D) | 34.1 x 20.4 x 10.3" (866 x 518 x 262 mm) |
| Inverter dimensions (H x W x D) | 28.5 x 15.9 x 5.7" (755 x 403 x 146 mm) |
| Mounting | Wall mount (mounting bracket included) |

| Features | |
|-------------------------------|--|
| PV / Utility disconnect | Eliminates need for external PV (DC) disconnect. Complies with NEC requirements. |
| Cooling | Convection cooled, fan not required. |
| Display | Backlit, two-line, 16-character liquid crystal display provides instantaneous power, daily and lifetime energy production, PV array voltage and current, utility voltage and frequency, time online "selling" today, fault messages, and installer customizable screens. |
| Communications | One RS 232 and two Xantrex™ RJ45 ports. |
| Wiring box | PV, utility, ground, and communications connections. The inverter can be separated from the wiring box. |
| Warranty | 5-year standard (an additional 5-year extended warranty is available). |
| Part number (negative ground) | 864-0108 864-0002 864-0107 864-0119 864-0118 864-0111 |
| Part number (positive ground) | 864-0112 N/A 864-0114 N/A N/A |