

Smart choice for power

Xantrex GT Series Grid Tie Solar Inverters



The Xantrex Grid Tie Solar Inverter (GT Series) is designed to convert photovoltaic (PV) electricity produced by solar modules into utility-grade power that can be used by the home or sold to the local electrical utility. Offering high efficiency (up to 96.0 %), clean aesthetics, high reliability, and a low installed cost, through ease of installation and integrated features, the GT Series is a proven, high-frequency design in a compact enclosure.

The GT Series may be installed as a single inverter, for a single PV array, or in a multiple-inverter configuration for large PV arrays.

Technology

- ▶ An NEC compliant, integrated DC/AC disconnect, standard in the GT Series, eliminates the need for external DC (PV) disconnects, and in some jurisdictions, AC disconnects
- ▶ Large heat-sink offers extraordinary heat dispersion without the need for a cooling fan
- ▶ Liquid crystal display (LCD) provides instantaneous information – power level, daily and lifetime energy production, PV array voltage and current, utility voltage and frequency, time online “selling”, fault messages, and installer-customized screens
- ▶ LCD vibration sensor allows the tap of a finger to turn backlight on and to cycle through display screens
- ▶ 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
- ▶ Easy access DC (photovoltaic) and AC (utility) terminal block simplifies wiring
- ▶ Rugged NEMA 3R inverter enclosure allows reliable indoor and outdoor installations

Performance

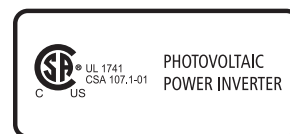
- ▶ Best-in-class efficiency to maximize solar system return on investment
- ▶ Accurate MPPT tracking ensures maximum energy harvest under any conditions
- ▶ FCC Part B compliance provides less external electronic interference

Serviceability

- ▶ 10-year standard warranty
- ▶ Sealed inverter enclosure can be quickly separated from the wiring box allowing DC/AC connections to remain intact in the unlikely event the inverter needs to be serviced



Standard
10-year
warranty



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Xantrex GT Series Grid Tie Solar Inverters

| Models | GT5.0 | | GT4.0N | | GT3.3N | | GT2.8 | |
|--|---|-------------|------------------------------|-------------|----------------------------------|-------------|------------------------------|-------------|
| Output | 240 V | 208 V | 240 V | 208 V | 240 V | 208 V | 240 V | 208 V |
| Max. AC power output | 5000 W | 4500 W | 4000 W | 3800 W | 3300 W | 3100 W | 2800 W | 2700 W |
| AC output voltage (nominal) | 240 V | 208 V | 240 V | 208 V | 240 V | 208 V | 240 V | 208 V |
| AC output voltage range | 211-264 Vac | 183-229 Vac | 211-264 Vac | 183-229 Vac | 211-264 Vac | 183-229 Vac | 211-264 Vac | 183-229 Vac |
| AC frequency (nominal) | 60 Hz | | | | | | | |
| AC frequency range | 59.3 - 60.5 Hz | | | | | | | |
| Startup current | 0 Aac | | | | | | | |
| Max. continuous output current | 21 A | 22 A | 16.7 A | 18.3 A | 13.8 A | 14.9 A | 11.7 A | 13.0 A |
| Max. output over-current protection | 30 A | | 25 A | | 20 A | | 15 A | |
| Max. output over-current protection | 30 Arms | | 25 Arms | | 20 Arms | | 20 Arms | |
| Max. utility backfeed current | 0 A | | | | | | | |
| Total harmonic distortion (THD) | < 3 % | | - | | < 5 % | | - | |
| Power factor | > 0.99 % (at rated power), > 0.95 % (full power range) | | | | | | | |
| Utility monitoring, islanding protection | UL1741-2005 / IEEE 1547 | | | | | | | |
| Output characteristics | Current Source | | | | | | | |
| Output current waveform | True sine wave | | | | | | | |
| Max. array open-circuit voltage | 600 Vdc | | | | | | | |
| MPPT voltage range (CEC & CSA) | 240 - 550 Vdc | | 240 - 480 Vdc | | 200 - 400 Vdc | | 195 - 550 Vdc | |
| MPPT operating range | Low: 235 Vdc / High: 550 Vdc | | Low: 235 Vdc / High: 550 Vdc | | Low: 200 Vdc / High: 550 Vdc Vdc | | Low: 193 Vdc / High: 550 Vdc | |
| Max. input current | 22.0 Adc | 20.0 Adc | 18.0 Adc | 17.0 Adc | 17.5 Adc | 16.5 Adc | 15.4 Adc | 14.9 Adc |
| Max. array short-circuit current | 24.0 Adc | | | | | | | |
| Reverse-polarity protection | Short-circuit diode | | | | | | | |
| Ground-fault protection | GF detection, IDIF > 1 A | | | | | | | |
| Max. inverter efficiency | 95.9% | 95.5% | 96.0% | 95.7% | 95.9% | 95.6% | 95.0% | 94.6% |
| CEC efficiency | 95.5% | 95.0% | 95.5% | 95.0% | 95.5% | 95.0% | 94.0% | 93.5% |
| Night-time power consumption | 1 W | | | | | | | |
| Operating temperature range | -13°F to +149°F (-25°C to +65°C) | | | | | | | |
| Enclosure type | NEMA 3R (outdoor rated) | | | | | | | |
| Inverter weight | 58.0 lb (25.8 kg) | | 58.0 lb (25.8 kg) | | 49.0 lb (22.2 kg) | | 49.0 lb (22.2 kg) | |
| Shipping weight | 65.0 lb (27.2 kg) | | 65.0 lb (27.2 kg) | | 57.0 lb (25.9 kg) | | 57.0 lb (25.9 kg) | |
| Inverter dimensions (H x W x D) | 28 1/2 x 16 x 5 3/4" (724 x 403 x 145 mm) | | | | | | | |
| Shipping dimensions (H x W x D) | 34 x 20 1/2 x 10 5/16" (866 x 518 x 262 mm) | | | | | | | |
| Mounting | Wall mount (mounting bracket included) | | | | | | | |
| Input and output terminal | AC and DC terminals accept wires sizes of #14 to #6 AWG | | | | | | | |
| 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", fault messages, and installer-customizable screens | | | | | | | |
| Communications | Integrated RS232 and Xanbus™ RJ45 communication ports | | | | | | | |
| Wiring box | PV, utility, ground, and communications connections. The inverter can be separated from the wiring box | | | | | | | |
| Warranty | 10-year standard | | | | | | | |
| Model name (negative ground) | GT5.0-NA-240/208 UL-05 | | GT4.0N-NA-240/208 UL-05 | | GT3.3N-NA-240/208 UL-05 | | GT2.8-NA-240/208 UL-05 | |
| Part number (negative ground) | 864-1009 | | 864-1008 | | 864-1006 | | 864-1001 | |
| | Positive ground inverters are also available | | | | | | | |

Specifications subject to change without notice.