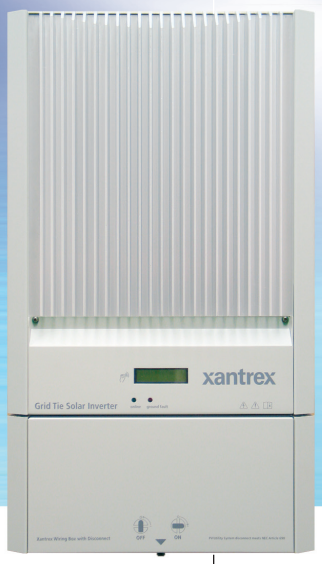
Smart choice for power

xantrex

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

xantrex GT SERIES WARRANTY 10 YEARS

Standard 10-year warranty

UL 1741
CSA 107.1-01
C US

PHOTOVOLTAIC POWER INVERTER

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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.