

GT500E Grid Tie Inverter



The Xantrex GT500E Grid Tie Inverter is based on a reliable platform that is used in grid-connect photovoltaic and wind turbine applications in North America and Europe. Easy to install and operate, the GT500E automates start up, and shut down. It incorporates advanced Maximum Power Point Tracking Technology to maximize the energy harvested from a PV array. To minimize power losses during the conversion process, the inverter's switching technology uses insulated gate bi-polar transistors. Multiple inverters can be paralleled for large power installations. Designed for European PV installations, the GT500E meets all applicable CE requirements.

Features

- ▶ Digital Signal Processor (DSP) based controls with self-diagnostics
- ▶ LCD display with keypad for display of operating status and for access of user-changeable settings
- ▶ Inverter shut off and disconnects
- ▶ Over- and under-voltage and frequency protection, shutting down the inverter
- ▶ Anti-islanding protection - prevents back-feeding inverter-generated power to the grid in the event of a utility outage
- ▶ User definable power tracking allows the user to match the inverter to the array, as well as to adjust delay periods to customize system shutdown sequences
- ▶ Isolation protection
- ▶ DC and AC over voltage protection
- ▶ Graphical user interface software for real time communications, monitoring, and control

Options

- ▶ Remote monitoring and faults notification via telephone modem or web server
- ▶ Data acquisition and logging
- ▶ Warranty extensions

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500 kW Three-Phase Inverter

Electrical Specifications	
Nominal power rating (AC)	500 kW
Nominal AC voltage	315 V
Nominal AC frequency	50 Hz (optional 60 Hz)
Line power factor	> 0,99 above 20% rated power
AC current distortion	< 3% THD at rated power
Max AC line current	920 A
Stand-by tare losses	< 100 W
Night consumption	< 100 W
Min DC voltage for feed-in	450 V
Suggested PV power	560 kWp
Max DC current	1120 A
Max open circuit voltage	880 V
Power Tracking window range	450 V - 800 V
Max efficiency	98,10%
European efficiency	97,30%

General Specifications	
Ambient temperature range	-10° - 45°C
Enclosure environmental rating	IP21
Enclosure	Rittal TS Series
Weight	1770 kg
Dimensions (H x W x D)	211,2 x 240,6 x 60,5 cm
Altitude	up to 1500 m without de-rating
Relative humidity	0 - 95% non-condensing

Features and Options	
Cooling method	Forced convection cooling
Protective functions	AC over/ under voltage, AC over / under frequency, over temperature, AC and DC over current, DC over voltage
User display standard	LCD, 4-line, 20-character with keypad
Disconnects (AC and DC)	Integral to inverter assembly
Communications software	Graphical user interface software for real time communications and control
Data acquisition and logging	Adjustable
Interfaces	Websvrer or telephone modem for remote system monitoring and fault notification
Combiner Boxes	Optional feature (information on request)
Container solution	Optional feature (information on request)

Approvals and Safety	
The GT500 complies with applicable European Directives	
The GT500 complies with the requirements of VDEW	

Note: Specifications subject to change without notice