

GT630E Grid Tie Inverter



The New 630 kW Three-Phase Inverter

The Xantrex GT630E Grid Tie Inverter is based on a reliable platform that is used in grid-connected photovoltaic and wind turbine applications in North America and Europe. Easy to install and operate, the GT630E 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 GT630E meets all applicable CE requirements. Optional features include low voltage ride through and reactive power control.

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
- ▶ Over- and under-voltage and frequency protection, shutting down the inverter
- ▶ 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
- ▶ DC and AC surge protection
- ▶ Graphical user interface software for real time communications, monitoring, and control

Options

- ▶ 1000 Vdc input
- ▶ Grid interactive features including low voltage ride through and reactive (VAR) power control
- ▶ Insulation monitoring systems and positive or negative grounding kits
- ▶ Containerized solutions
- ▶ M/S Combiner Box with input fusing
- ▶ Remote monitoring and faults notification via various communication options
- ▶ Warranty extensions and service contracts with uptime guarantees

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Our evolution to Schneider Electric, the global specialist in energy management, re-affirms our commitment to provide you with innovative solutions, best-in-class customer service, and exceptional quality in everything we do. We are proud to be your partner, and we are dedicated to helping you make the most of your energy.

www.xantrex.com

630 kW Three-Phase Inverter

Electrical Specifications

Nominal power rating (AC)	630 kW
Suggested PV power	705 kWp
Nominal AC voltage	375 Vac three phase (other voltage levels on request)
Nominal AC frequency	50 Hz (60 Hz optional)
Line power factor	> 0,99 above 20% rated power (optional 0,93 leading to 0,93 lagging with grid interactive feature)
AC current distortion	< 3% THD at rated power
Max AC line current	1040 A
Night consumption	< 100 W
Min DC voltage for feed-in	575 Vdc
Max DC current	1120 Adc
Max open circuit voltage	940 Vdc (1000 Vdc optional)
Power Tracking window range	575 to 880 Vdc (reduced AC current above 820 Vdc)
Max efficiency	98,4%
European efficiency	98,2%

General Specifications

Ambient temperature range	-10° to 45°C
Enclosure environmental rating	IP20
Enclosure	Rittal TS Series
Weight	1770 kg (without 1000 Vdc option)
Dimensions (H x W x D)	211,2 x 240,6 x 60,5 cm (without 1000 Vdc option)
Altitude	Full power up to 1500 m
Relative humidity	0 to 95%, non-condensing

Features and Options

Cooling method	Temperature-dependent 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, four-line, 20-character with keypad
Disconnects (AC & DC)	Integral to inverter assembly
Communications software	Graphical user interface software for real time communications and control
Data acquisition and logging	Adjustable
Combiner Boxes	Optional feature (information on request)
Container solution	Optional feature (information on request)

Approvals and Safety

GT630E complies with applicable European Directives
GT630E complies with the requirements of BDEW and VDE 0126
GT630E complies with the applicable French Decree
GT630E complies with Royal Decree, Spain
GT630E complies with ENEL (DK5940)

Note: Specifications subject to change without notice.