

Grid-tied Inverter and Battery Controller (GTIB)

The GTIB-125 is a 125kW hybrid inverter that offers high efficiency, proven reliability, and unprecedented flexibility. The highly-configurable GTIB can condition power from alternative energy sources as well as Energy Storage and AC Microgrids.

What's New in G1.3

- Higher DC Voltage Range (280 800 VDC)
- Higher DC Input Current (380A)
- Quiet Operation (<75 dB)
- Transformerless
- 25% Higher Power 125 kW

Efficient

With 97% peak efficiency, the GTIB has built-in MPPT for solar arrays and high round-trip efficiency for battery charging.

Advanced Functions

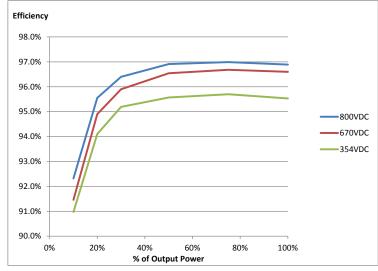
Independent real and reactive power controls allow the inverter to be used for frequency regulation, VAR compensation, demand response, peak shaving, and other advanced grid support functions. Microgrid capabilities allow the inverter to form or join a microgrid.



Features

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- Microgrid "off-grid" and back-up power capable
- UL 1741 compliant
- Web-based remote performance monitoring, control, fault clearing, firmware upgrade
- Automatic transfer to off-grid with built-in transfer switch
- Over 80 MW Deployed



CONTACT US

GTIB-125

Power Terminals 1 DC | 2 AC

Power-stage Technology High Frequency PWM Size (inches) $36 \text{ W} \times 18 \text{ D} \times 75 \text{ H}$

Weight (Lbs) 1020
Mounting Floor-standing

DC PORT SPECIFICATIONS - BATTERY

DC Voltage (Full Power) 350-800 VDC (133 kVV)

DC Voltage (Dark Start) (optional) 254-780 VDC or 450-800 VDC (with extended Dark Start Option)

 DC Voltage (Full Range)
 36-800 VDC

 Max Power
 133kW

 DC Current Max
 380 A

Battery Charge Controller Integrated configurable 3-stage charge controller for lead-acid batteries

Battery Management System External control from BMS interface via Site Controller

DC Voltage Ripple <1%

AC GRID SPECIFICATIONS

AC Line Voltage 480 VAC +10%, -12%, 3-phase 3/(4 wire with transformer option)

AC Line Frequency 60Hz nominal, 57-60.5 Hz range

Continuous AC Current 160 A RMS
Continuous AC Power 125kW

Power Factor Greater than 0.95

Current Harmonics IEEE 1547 compliant, <5% THD

Precharge DC from AC Optional (External)

AC LOAD PORT SPECIFICATIONS

AC Line Voltage 480 VAC +10%, -12%, 3-phase 3/(4 wire with transformer option)

Continuous AC Current 160 A RMS
Continuous AC Power 125kW

Power Factor 0 to 1.00 (leading-lagging)

Automatic Transfer Switch Yes (Internal)

On-grid/Off-grid Auto-transfer time 160 ms to Backup/300 ms to Grid

ENVIRONMENTAL SPECIFICATIONS

Temperature Operating 0 to 50°C
Storage -20°C to 60°C
Humidity 5-95% (non-condensing)

Cooling Forced Air
Rated Max Elevation 3,300 feet
Enclosure NEMA 1 (indoor)

USER INTERFACES

Front-Panel Interface Industrial LCD Keypad
Accessibility Web-based Ethernet Interface

Remote Accessibility via Web interface

Communication MODBUS Over RS48.5 and/or RS232 Native
Performance Monitoring Real-time & Historic, web-based performance data

EFFICIENCY

Peak Efficiency 97%

CEC Efficiency 96% (transformerless)