

**SOLID STATE POWER UNITS**  
**GT400FC-100MIL**  
**100KVA 400Hz 3 PHASE**

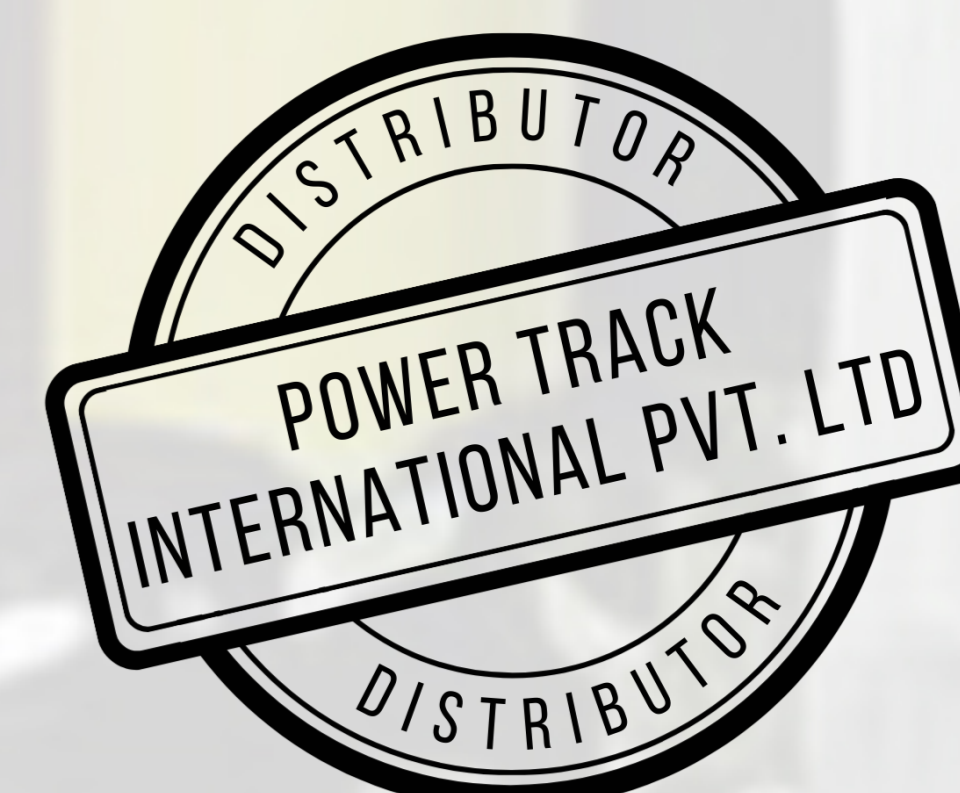
GenTec

# Frequency Converter



## OPTIONAL FEATURES

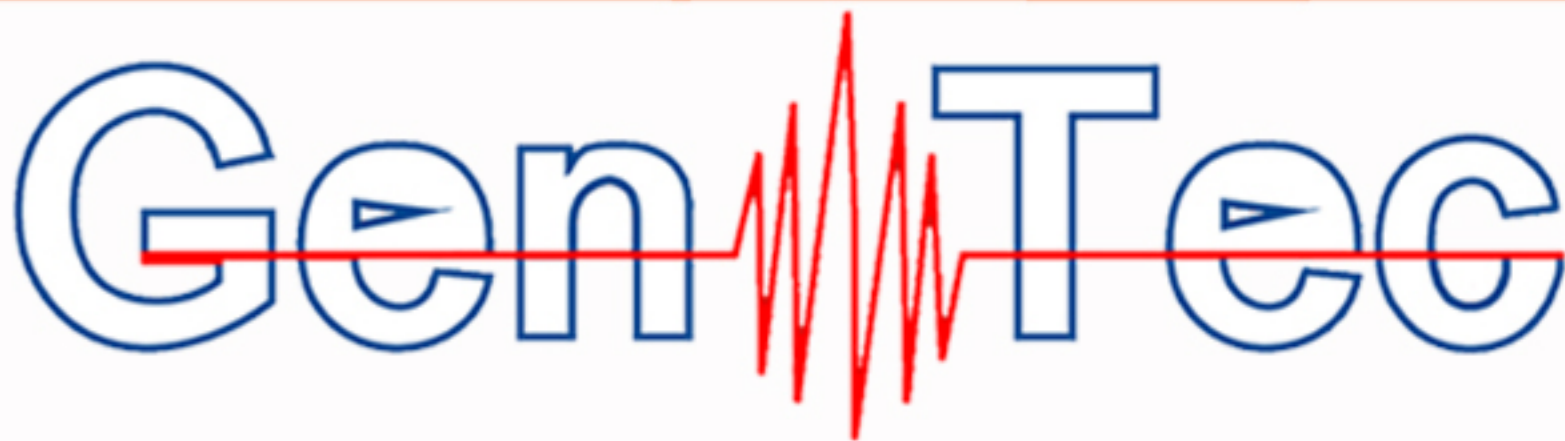
- Advanced Remote Monitoring & Management Options via SNMP
- GPRS Modem/CAN BUS Communication Options
- Easy Scalability with Paralleling
- Microprocessor & Sensor Controlled Smart Battery Management
- Customizable Input/Output options



SOLID STATE POWER UNITS

GT400FC-100MIL

100KVA 400Hz 3 PHASE



GENERAL SPECIFICATION

INPUT:	
Input Current Distortion	≤ 5%, typically 3%
Voltage	380-480 volts, + 10%, -15% 3Ø, 3 or 4 wire plus ground (Alternate Voltage Available)
Frequency	50 - 60 Hz ± 10%
Phase Rotation	Any
Rotation	Over/Undervoltage, loss of phase, overcurrent, short circuit, Voltage transient protection IAW IEEE, C62.41.1, Location Cat. B/C
Inrush Current	No greater than 100% of full load current
ENVIRONMENTAL:	
Acoustical Noise	< 65 dBA maximum at 5 feet (1.5m)
Temperature Range	-40°C to +55°C
Relative Humidity	10 - 95%, Non-Condensing
Ingress of Water	Type 3SX, IP55
ENERGY FACTORS:	
Efficiency	94% typical at full load; 92% typical at full load; varies depending on configuration
Energy Efficiency Ratio	20.0 typical

OUTPUT:	
IPower Rating	100 kVA
Overload	
100% continues;	110% for 60 min;
125% for 10 min;	150% for 2 min;
200% for 20 sec	
Voltage*	115/200 volts, 3Ø, 4 wire, grounded neutral
Voltage Adjust*	± 15%
Crest Factor	1.414 ± 3%
Voltage Regulation	± 1.0% under all conditions of line, balanced loads and temperature.
Voltage Transients	IAW MIL-STD-704F
Frequency Regulation	400 Hz ± 0.01% under all conditions of line, load and temperature
Frequency Transients	None
Phase Angle Regulation	± 1° for balanced loads; ± 2° for unbalanced loads;
Harmonic Distortion	2.0 % maximum
Protection	Overload, short circuit, over/undervoltage and safely disconnect
Automatic Line Drop	15%
Compensation (ALDC)	

\*Also available 120/208 VAC, adjustable ± 10%

GENERAL FEATURES:

- Advanced Microprocessor
- True Online Double Conversion
- IGBT Rectifier and Inverter
- Active Input Power Factor Correction (≥0.99)
- Low Input THDi <3% Perfect Generator Compatibility
- Low Output THDv <3% Perfect Energy for your Loads
- Excellent Compability with Different Power Factor Loads
- Selectable Input/Output Voltage and Frequency
- Wide Input Voltage Range ( 160-260 VAC )
- High Efficiency Up To 95%
- Ultra High Efficiency with smart ECO mode (98%)
- Reliable Parallel/Redundant Operation via Load Synchronization
- Smart Fan Control
- EMI / RFI Filter
- Start on Battery Feature (Cold Start)
- Short Circuit, High/Low Voltage and Overload Protections
- Adjustable time for Battery Option
- Battery deep discharge Protection
- Standard Static ve Maintenance By-Pass
- Temperature Compensated Battery Charge, Selectable
- Charge Current
- Touch Screen Graphical LCD Display
- Advanced Fault Identification, 1000 pcs Alert / Event memory
- Advanced Communication options with RS232 / RS485

Enviroment Friendly Design,  
The most Silent in its class  
Low Installation & Operation Cost  
Easy Maintenance & Service  
10 Years Spare Parts Availability  
7/24 Technical Service & Custimer Services

