

TO RETURN ... SAVE YOUR MONEY



GT Series 2000W~5000W

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We come from energy heavenly-Power Master High-Technology, Excellent-Quality, Considerate-Service



Grid Tie Inverter

Grid Tie Inverter is used in On Grid Solar System (no batteries). GT Series convert the direct current from solar panel into alternating current and sell these green energy to the public utility company. GT Series not only has green concept, but also can save your money.

Grid Tie Inverter Connection System Diagram

PV Array –

Converts solar energy to DC electricity

Grid Tie Inverter –

Converts DC electricity to AC electricity to use or export to the grid.

Feed-in Meter –

Grid Tie Inverter sell AC electricity to the public utility company via feed-in meter.

Consumption Meter –

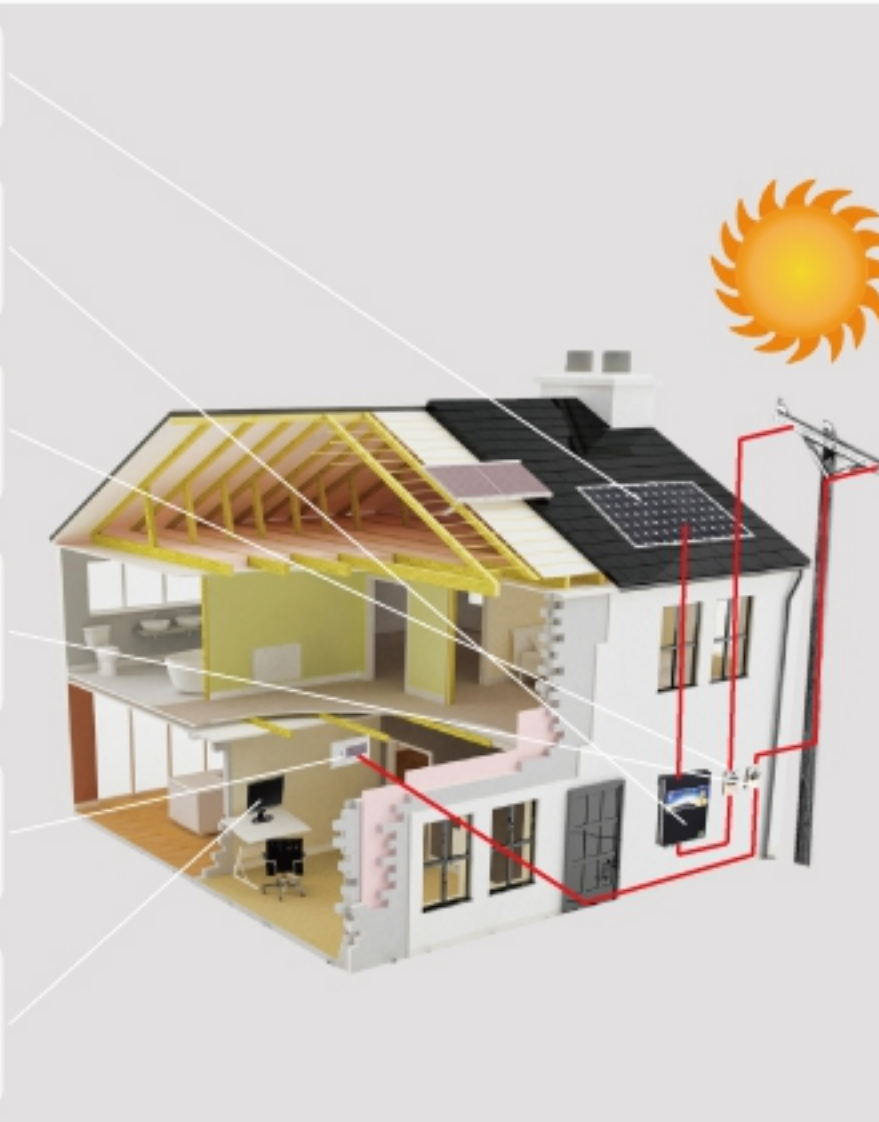
The public utility company will provide AC electricity to electrical appliance via consumption meter.

Indoor Distribution Panel –

AC electricity will be draw to electrical appliance.

Monitoring Software –

To see the operational status and electricity generated data.



Grid Tie Inverter Character

- ★ Two Built-in Independent MPPT Boosters increase overall efficiency.
- ★ Convectional Cooling System provided to guarantee quiet operation.
- ★ Compact Size, Light Weight, Easy installation.
- ★ Up to 96% high conversion efficiency
- ★ Advanced DSP Control Technology delivers accurate data
- ★ Mimic LCD Display
- ★ Higher MTBF Components Used
- ★ IP65 Cabinets for both Indoor and Outdoor Applications
- ★ VDE Certified to Ensure Safe Operation
- ★ Optional Monitoring Software provided to offer operational status and electricity generated data

Specification

Item	Model	PM-2000GT	PM-3000GT	PM-4000GT	PM-5000GT
Inverter Technology	Conversion Mode Isolation Method	Sine-wave, Current source, High frequency PWM Transformer-less Design*			
DC Input Data					
Nominal DC Voltage		300 VDC			
Max. DC Input Voltage		500 VDC			
Working range		120 VDC ~ 500 VDC**			
Max DC input current (Each MPPT Tracker)		14.6 Amp	22 Amp	14 Amp	17.65 Amp
MPPT Range		150 VDC ~ 450 VDC			
MPPT Tracker		1		2	
AC Output Data					
Nominal AC Power		2000	3000	4000	5000
Max. AC Power		2200	3300	4200	5300
Nominal AC Voltage		AC 230V			
Output Connect Method		1-Phase / 2-Wires(L, N, G) or 1-Phase / 3-Wires(L1, L2, G)			
AC Voltage Rang		184 Vac ~ 264.5 Vac (Base on 230 Vac)			
Nominal AC Current		8.7 Amp	13 Amp	17.4 Amp	21.7 Amp
Frequency		50/60Hz Auto-Selection (47.5 ~ 50.2 Hz or 59.3 ~ 60.5 Hz)			
Power Factor		> 0.99 with nominal AC current			
Current Distortion		Total Harmonic current : Less than 5% Single Harmonic current : Less than 3%			
Efficiency Data					
Max. efficiency		> 96%			
Euro efficiency		> 94%			
CEC efficiency		> 94%			
Environmental					
Operating Temperature		-25 °C ~ +50 °C -13 °F ~ 122 °F			
Humidity		0 to 90% (Without condensation)			
Altitude		0 ~ 2000 M / 0 ~ 6600 ft			
Mechanical					
Dimensions (H x W x D in mm)		470 x 455 x 170		545 x 455 x 170	
Weight (Kgs)		26		30	
Protection Class		IP65, outdoor			
Cooling		Free Convection			
AC Connector		Terminal			
DC Connector		Multi-Contact			
Communication		Standard : RS232			
Communication Interface		Optional : USB, RS485, Dry contact, TCP/IP			
Front Panel					
LCD		Boost input Voltage / Boost input Current / Boost input Power / AC output Voltage / AC output frequency / AC output current / AC output power / AC Energy yield / Inner Temperature / Heat sink Temperature / Status message / Error message RED : Leakage current fault or DC input isolation fault Yellow : Spec. of Utility is not matches with the Utility specifications of the inverter Green : Solar Cell power is greater or smaller than sleep power			
Key Pad		UP key / Down key / Function key / Enter key			
Protection					
Utility		Over / Under Voltage, Over / Under Frequency, Ground fault, DC Isolation fault			
Islanding operation detection		Passive : Voltage phase jump detection Active : Reactive power control			
Over Temperature		Reduced output power			

* If the isolation is necessary, option one extra transformer.

** The rated range should be 150 VDC ~ 500 VDC in order to get the rated output.

Certification CE, VDE, DK5940, AS4777

