

GT Series Grid Connect Solar PV Inverters

Characteristics:

Integrated independent MPPT Boosters increase overall efficiency
 Convectional Cooling System provided to guarantee quiet operation
 Compact Size, Light Weight
 Up to 95% high conversion efficiency
 Advanced DSP Control Technology delivers accurate data
 Ease of Installation to Save Time and Money
 Mimic LCD Display
 IP65 Cabinets for both Indoor and Outdoor Applications
 Optional Monitoring Software provided to offer operational status and electricity generated data

Description:

These grid-connected Photovoltaic Inverters are housed in a waterproof IP65 enclosure which can be installed in either a grid connected solar tracker system or a stationary PV system. By taking care of an accurate power conversion from solar panel to local grid, the GT series effects conversion process with minimal power loss and maximum reliability.

Model Item		2000GT
Inverter Technology	Conversion Mode	Sine-wave, Current source, High frequency PWM
	Isolation Method	Transformer-less Design *
DC Input Data		
Nominal DC Voltage		360 VDC
Max. DC input Voltage		500 VDC
Working range		120VDC~500VDC **
Max DC input current (Each MPPT Tracker)		14.6 Amp
MPPT Range		150 VDC ~ 450 VDC
MPPT Tracker		1
AC Output Data		
Nominal AC Power		2000
Max. AC Power		2200
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		184~264.5Vac(Base on 230 Vac)
Nominal AC Current		8.7Amp
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)	455 x 430 x 170
Weight (Kgs / Lbs)	23 / 51
Protection Class	IP65, outdoor
Cooling	Free Convection
AC Connector	Terminal
DC Connector	Multi-Contact
Communication	
Communication Interface	Standard
	Optional
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
LED	RED
	Yellow
	Green
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
Certification	
Safety	Europe G83/1
	North American
EMI/EMC	EN 6 1000-6-1 , EN 6 1000-6-2 , EN 6 1000-6-3 , EN 6 1000-6-4

Model Item		3000GT
Inverter Technology	Conversion Mode	Sine-wave, Current source, High frequency PWM
	Isolation Method	Transformer-less Design*
DC Input Data		
Nominal DC Voltage		360 VDC
Max. DC input Voltage		500 VDC
Working range		120VDC~500VDC**
Max DC input current (Each MPPT Tracker)		22 Amp
MPPT Range		150 VDC ~ 450 VDC
MPPT Tracker		1
AC Output Data		
Nominal AC Power		3000
Max. AC Power		3300
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		184~264.5Vac(Base on 230 Vac)
Nominal AC Current		13 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)		455 x 430 x 170
Weight (Kgs / Lbs)		23 / 51
Protection Class		IP65, outdoor
Cooling		Free Convection
AC Connector		Terminal

DC Connector	Multi-Contact
Communication	
Communication Interface	RS232 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
LED	Leakage current fault or DC input isolation fault
	Spec. of Utility is not matches with the Utility specifications of the inverter
	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
Certification	
Safety	VDE0126-1-1, EN50178, IEC62103, G83/1
	UL1741, IEEE1547
EMI/EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4

Model Item		4000GT
Inverter Technology	Conversion Mode	Sine-wave, Current source, High frequency PWM
	Isolation Method	Transformer-less Design *
DC Input Data		
Nominal DC Voltage		360 VDC
Max. DC input Voltage		500 VDC
Working range		120VDC~500VDC **
Max DC input current (Each MPPT Tracker)		14 Amp
MPPT Range		150 VDC ~ 450 VDC
MPPT Tracker		2
AC Output Data		
Nominal AC Power		4000
Max. AC Power		4200
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		184~264.5Vac(Base on 230 Vac)
Nominal AC Current		17.4Amp
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)		455 x 510 x 170
Weight (Kgs / Lbs)		28 / 62
Protection Class		IP65, outdoor
Cooling		Free Convection
AC Connector		Terminal

DC Connector	Multi-Contact
Communication	
Communication Interface	RS232
	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
LED	Leakage current fault or DC input isolation fault
	Spec. of Utility is not matches with the Utility specifications of the inverter
	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
Certification	
Safety	VDE 0126-1-1, EN50178, IEC62103 , G83/1
	UL1741, IEEE1547
EMI/EMC	EN 6 1000-6-1, EN 6 1000-6-2, EN 6 1000-6-3, EN 6 1000-6-4

Model Item		5000GT
Inverter Technology	Conversion Mode	Sine-wave, Current source, High frequency PWM
	Isolation Method	Transformer-less Design *
DC Input Data		
Nominal DC Voltage		360 VDC
Max. DC input Voltage		500 VDC
Working range		120VDC~500VDC **
Max DC input current (Each MPPT Tracker)		17.65 Amp
MPPT Range		150 VDC ~ 450 VDC
MPPT Tracker		2
AC Output Data		
Nominal AC Power		5000
Max. AC Power		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		184~264.5Vac(Base on 230 Vac)
Nominal AC Current		21.7Amp
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)		455 x 510 x 170
Weight (Kgs / Lbs)		28 / 62
Protection Class		IP65, outdoor
Cooling		Free Convection
AC Connector		Terminal

DC Connector	Multi-Contact
Communication	
Communication Interface	RS232
	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
LED	Leakage current fault or DC input isolation fault
	Spec. of Utility is not matches with the Utility specifications of the inverter
	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
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Safety	VDE 0126-1-1, EN50178, IEC62103, G83/1
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