

Single Phase GST Series

Hybrid Inverter



- 
High Efficiency & Energy Saving Conversion
 Excellent charging and inversion efficiency with low energy loss for energy-saving operation.
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Multiple Charging Strategies
 Four charging modes available: Mains Priority, PV Priority, Hybrid Mains & PV, PV Only. Suitable for various power supply scenarios.
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Practical Emergency Capability
 Supports battery-less output and independent PV startup with load; equipped with battery activation function to guarantee emergency power supply during power outage.
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Cloud Intelligent Management & Control
 Support communication with upper computer and APP cloud. Real-time viewing of operating data and device status; remote control and parameter modification.
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Flexible Capacity Expansion & Parallel Operation
 Up to 9 units can be paralleled. The system outputs single-phase or three-phase AC power for flexible power expansion.
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Safe & Intelligent Operation & Maintenance
 Complete hardware and software protection mechanisms; identify and display fault types. Support scheduled charging and discharging to optimize electricity costs.

Specifications of Single Phase GST Series Hybrid Inverter

Model	GST48-3.5K-P1	GST48-6.6K-P1	GST48-8.5K-P1	GST48-10.5K-P1	GST48-12.5K-P1
Inverter Output					
Rated Output Power (W)	3500	6600	8500	10500	12500
Rated Output Power (VA)	3500	6600	8500	10500	12500
Max. Peak Power (W)	7000	13200	17000	21000	25000
Rated AC Output	230VAC (Adjustable: 200/208/220/240VAC), 50/60Hz				
Output Voltage Waveform	Pure Sine Wave				
Inverter & Bypass Switching Time (ms)	10 (Typical)				
Max. Parallel Quantity	9				
Max. Battery Inversion Efficiency	93%				
Overload Protection	102%~110%, 5min; 110%~125%, 10s; >125%, 5s				
Battery					
Battery Type	Lithium Battery / Lead-acid Battery / User Defined				
Rated Battery Voltage (VDC)	48				
Battery Voltage Range (VDC)	40~60				
Max. MPPT Charging Current (A)	60	120	200	220	240
Max. Mains Charging Current (A)	60	60	100	120	120
Max. Mixed Charging Current (A)	80	120	200	220	240
PV Charging					
Number of MPPT	1	1	2		
Max. PV Array Power (W)	4000	6600	6600+6600		
Max. PV Input Current (A)	15	22	22+22		
Max. Open-circuit Voltage (VDC)	500	500	500+500		
MPPT Operating Range (VDC)	120~450				
MPPT Tracking Efficiency	99.9%				
Mains Input					
Input Voltage Range (VAC)	90~280/170~280				
Frequency Range (Hz)	50/60±0.3				
Bypass Overload Current (A)	30	40	63	63	63
Specifications					
Dimensions (DWH) mm	130*350*455	130*350*455	130*445*630	130*445*630	130*445*630
Weight (kg)	10	12	25	25	25
Protection Level	IP20				
Operating Temperature (°C)	-10~55				
Storage Temperature (°C)	-25~60				
Noise Level (dB)	<60				
Cooling Method	Forced Air Cooling (Adjustable Fan Speed)				
Communication					
Embedded Interface	RS485 / CAN / USB / Dry Contact				
External Module	Wi-Fi/4G				
Certifications					
Safety	CE(IEC62109-1)				
EMC	EN61000				

Note: All data above are for reference only and subject to change without prior notice.

Single Phase GST II Series

Hybrid Inverter



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High Efficiency & Energy Saving
 Excellent charging and inversion efficiency with low energy loss for more economical operation.
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Multiple Charging & Output Priority Strategies
 Equipped with various charging and output priority modes, adaptable to diverse power supply scenarios.
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Practical Emergency Capability
 Supports battery-free output and standalone PV startup with load. It also features battery activation to guarantee power supply during blackouts.
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Cloud Intelligent Management & Control
 Supports cloud communication via host computer and APP. Real-time viewing of operating data and device status, plus remote parameter adjustment.
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Optional Parallel Operation & Unlimited Grid-tied Load (6.6K and 12K model only)
 Up to 9 units can be paralleled. The system outputs single-phase and three-phase AC power for flexible power expansion. External CT enables unlimited grid-tied load capacity.
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Safe & Intelligent Operation & Maintenance
 Complete software and hardware protection mechanisms. It can identify and display fault types.

Parameters of Single-Phase GST II Series Hybrid Inverter

Product Model	GST II 24-3.6K-P1	GST II 48-6.6K-P1	GST II 48-12K-P1
Inverter Output			
Rated Output Power (VA)	3600	6600	12000
Output Power Factor	1.0		
Rated AC Output	230Vac (220/240Vac configurable), 50/60Hz±0.1%		
Output Voltage Waveform	Pure Sine Wave		
Inverter & Bypass Switchover Time	10ms/20ms		
Max. Parallel Quantity	Not Support Parallel	9 Units	
Max. Battery Inversion Efficiency	92.7%	94%	
Overload Protection	102%~110%, 1min 110%~130%, 10s 130%~150%, 3s >150%, 0.2s	102%~120%, 1min >120%, 10s	102%~125%, 1min 125%~200%, 10s
Battery			
Battery Type	Lithium Battery / Lead-Acid / User Customizable		
Rated Battery Voltage (VDC)	24	48	
Battery Voltage Range (VDC)	21~30.5	42~61	
Max. MPPT Charging Current (A)	100	120	160
Max. Grid Charging Current (A)	100	120	160
Max. Hybrid Charging Current (A)	100	120	160
Charging Voltage Accuracy	±5%		
Charging Mode	Three-Stage / Two-Stage		
PV Charging			
Number of MPPT	1	1	2
Max. Total Input Power (W)	5000	9000	15000
Max. Single-Channel Input Power (W)	5000	9000	9000
Max. Single-Channel Input Current (A)	18	27	27
PV Input Short-Circuit Current (A)	22	33	33
Max. Open-Circuit Voltage (V)	500	500	500
MPPT Operating Range (V)	60~450	80~450	80~450
Grid Input			
Input Voltage Range (VAC)	90~280/170~264		
Frequency Range (Hz)	50/60±10		
Input Power Factor	0.99		
Max. Bypass Current (A)	20	40	70
Specifications			
Dimensions (W*D*H mm)	285*100*445	330*110*420	425*120*575
Weight (Kg)	7	9	16
IP Rating	IP20		
Operating Temperature Range (°C)	-10~50	-10~60	
Storage Temperature Range (°C)	-15~60		
Operating Ambient Humidity (%RH)	20%~95%, Non-condensing		
Communication			
Embedded Interface	RS232		
External Module	WiFi		
Certifications			
Safety	EN62109-1/2		
EMC	IEC61000		

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Three-Phase GST Series

Hybrid Inverter



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High Efficiency & Energy Saving Conversion
 Excellent charging and inversion efficiency with low energy loss for energy-saving operation.
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Multiple Charging Strategies
 Four charging modes available: Mains Priority, PV Priority, Hybrid Mains & PV, PV Only. Suitable for various power supply scenarios.
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Practical Emergency Capability
 Supports battery-less output and independent PV startup with load; equipped with battery activation function to guarantee emergency power supply during power outage.
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Cloud Intelligent Management & Control
 Support communication with upper computer and APP cloud. Real-time viewing of operating data and device status; remote control and parameter modification.
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Flexible Capacity Expansion & Parallel Operation
 Up to 9 units can be paralleled.
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Safe & Intelligent Operation & Maintenance
 Complete hardware and software protection mechanisms; identify and display fault types. Support scheduled charging and discharging to optimize electricity costs.

Parameters of Three-Phase GST Series Hybrid Inverter

Model	GST48-8.5K-P3	GST48-10.5K-P3	GST48-12.5K-P3
Inverter Output			
Rated Output Power (W)	8500	10500	12500
Rated Output Power (VA)	8500	10500	12500
Max. Peak Power (W)	17000	21000	25000
Rated AC Output	400VAC, 3-Phase, 50/60Hz		
Output Voltage Waveform	Pure Sine Wave		
Inverter & Bypass Switching Time (ms)	10 (Typical)		
Max. Battery Inversion Efficiency	≥93%		
Overload Protection	102%~110%, 5min; 110%~125%, 10s; >125%, 5s		
Battery			
Battery Type	Lithium Battery / Lead-acid / User Defined		
Rated Battery Voltage (VDC)	48		
Battery Voltage Range (VDC)	40~60		
Max. Mains Charging Current (A)	100	120	120
Max. Mixed Charging Current (A)	200	220	240
PV Charging			
Number of MPPT	2	2	2
Max. PV Array Power (W)	6600+6600	7500+7500	9000+9000
Max. PV Input Current (A)	22+22		
Max. Open-circuit Voltage (VDC)	800+800		
MPPT Operating Range (VDC)	200~650		
MPPT Tracking Efficiency	99.9%		
Mains Input			
Input Voltage Range (VAC)	Phase Voltage: 170~280, Line Voltage: 305~485		
Frequency Range (Hz)	50/60±0.3		
Bypass Overload Current (A)	23	29	35
Specifications			
Dimensions (DWH) mm	130*445*630		
Weight (kg)	23		
Protection Level	IP20		
Operating Temperature (°C)	-10~55		
Storage Temperature (°C)	-25~60		
Noise Level (dB)	<60		
Cooling Method	Forced Air Cooling (Adjustable Fan Speed)		
Communication			
Embedded Interface	RS485/CAN/USB/Dry Contact		
External Module	WIFI/4G		
Certifications			
Safety	CE(IEC62109-1)		
EMC	EN61000		

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US Standard GST Series

Hybrid Inverter



Excellent charging and inversion efficiency with low energy loss for energy-saving operation.



Multiple Charging Strategies

Four charging modes available: Mains Priority, PV Priority, Hybrid Mains & PV, PV Only. Suitable for various power supply scenarios.



Practical Emergency Capability

Supports battery-less output and independent PV startup with load; equipped with battery activation function to guarantee emergency power supply during power outage.



Cloud Intelligent Management & Control

Support communication with upper computer and APP cloud. Real-time viewing of operating data and device status; remote control and parameter modification.



Flexible Capacity Expansion & Parallel Operation

Supports parallel connection of up to 9 units. The system can output single-phase, split-phase and three-phase AC power with flexible power expansion.



Safe & Intelligent Operation & Maintenance

Complete hardware and software protection mechanisms; identify and display fault types. Support scheduled charging and discharging to optimize electricity costs.

US Standard GST Series Hybrid Inverter Specifications

Model	GST48-6.6K-U	GST48-8.5K-U	GST48-10.5K-U	GST48-12.5K-U
Inverter Output				
Rated Output Power (W)	6600	8500	10500	12500
Rated Output Power (VA)	6600	8500	10500	12500
Max. Peak Power (W)	13200	17000	21000	25000
Rated AC Output	120Vac, 50/60Hz	120/240Vac (Single-phase/Split-phase), 50/60Hz		
Output Voltage Waveform	Pure Sine Wave			
Inverter & Bypass Switching Time (ms)	10 (Typical)			
Max. Parallel Quantity	9			
Max. Battery Inversion Efficiency	93%			
Overload Protection	102%~110%, 5min; 110%~125%, 10s; >125%, 5s			
Battery				
Battery Type	Lithium Battery / Lead-acid / User-defined			
Rated Battery Voltage (VDC)	48			
Battery Voltage Range (VDC)	40~60			
Max. MPPT Charging Current (A)	120	200	220	240
Max. Mains Charging Current (A)	60	100	120	120
Max. Mixed Charging Current (A)	120	200	220	240
PV Charging				
Number of MPPT	1	2	2	2
Max. PV Array Power (W)	6600	6600+6600	6600+6600	6600+6600
Max. PV Input Current (A)	22	22+22	22+22	22+22
Max. Open-circuit Voltage (VDC)	500	500+500	500+500	500+500
MPPT Operating Range (VDC)	120~450			
MPPT Tracking Efficiency	99.9%			
Mains Input				
Input Voltage Range (VAC)	90~140			
Frequency Range (Hz)	50/60±0.3			
Bypass Overload Current (A)	40	50	63	63
Specifications				
Dimensions (DWH) mm	350*130*455	445*130*630	445*130*630	445*130*630
Weight (kg)	13	25	25	25
Protection Level	IP20			
Operating Temperature (°C)	-10~55			
Storage Temperature (°C)	-25~60			
Noise Level (dB)	<60			
Cooling Method	Forced Air Cooling (Adjustable Fan Speed)			
Communication				
Embedded Interface	RS485/CAN/USB/Dry Contact			
External Module	WIFI/4G			
Certifications				
Safety	CE(IEC62109-1)			
EMC	EN61000			

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