



HYBRID INVERTER >>>

GST series Single-phase



Product introduction

GST series is a new all-in-one solar charge inverter, which integrates solar energy storage & utility charging energy storage and AC sine wave output. Thanks to DSP control and advanced control algorithm, it has high response speed, high reliability and high industrial standard. Four charging modes are optional, i.e. Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging; and two output modes are available, i.e. inverter and Mains, to meet different application requirements.

Performance characteristics

Three output modes

When the grid-connected function is enabled, grid-connected power generation or anti-reverse-current can be set, and it can also be set to off-grid output mode.

Four charging modes

Mains priority charging, solar priority charging, mains solar hybrid charging and solar only charging.

Emergency function

Support battery-free output and only PV start and load, with battery activation function.

The host computer and the APP cloud communication

The host computer and the APP cloud can display the operating data and status of the system in real time and control and modify the parameters.

Parallel function

It can be flexibly combined to achieve up to 9 parallel machines, and the parallel system can output single-phase and three-phase AC voltage.

Protection function

Perfect hardware and software protection function, can display the fault type for easy removal.

Technical parameters

MODEL	GST24-2500 VII	GST48-3500 VII	GST48-5500 VII	GST48-10K VII
INVERTER OUTPUT				
Rated output power (W)	2500	3500	5500	10000
Rated output power (VA)	2500	3500	5500	10000
Maximum Peak Power (W)	5000	6000	10000	15000
Load Capacity with Motors	2HP	2HP	4HP	6HP
Rated AC Output	230 Vac (200 / 208 / 220 / 240 Vac), 50 / 60Hz			
Output Voltage Waveform	Pure Sine Wave			
Inverter and Bypass Switching Time	10ms (typical)			
Parallel Capacity	9			
Maximum Battery Inverter Efficiency	93%			
Overload Protection	(102% <load <120%) ±10%: error and output shut down after 5 minutes; (120% <load <150%) ±10%: error and output shut down after 10 seconds ; Load> 150% ± 10%: error and output shut down after 2 seconds .			
BATTERY				
Battery Type	Lithium / Lead-acid / User Defined			
Rated Battery Voltage	24Vdc	48Vdc		
Battery Voltage Range	20-33Vdc	40-60Vdc		
Max.MPPT Charging Current	60A	60A	100A	200A
Max.Mains Charging Current	60A	60A	60A	120A
Max.Hybrid Charging Current	120A	120A	100A	200A
Charging current error	±3A _{dc}			
Charging Short Circuit protection	Blown Fuse			
PV CHARGING				
MPPT Quantity	1	1	1	2
Max. PV array power	1700W	3400W	5500W	5500W+5500W
Max. PV input current	50A	50A	22A	22A+22A
Max. Open Circuit Voltage	100Vdc	145Vdc	500Vdc	500Vdc+500Vdc
MPPT Voltage Range	30-85Vdc	60-115Vdc	120-450Vdc	
MPPT Tracking Efficiency	99.9%			
MAINS INPUT				
Input Voltage Range	90-280Vac/170-280Vac			
Frequency Range	50/60Hz±0.3Hz			
Output Short Circuit Protection	Circuit breaker			
Bypass Overload Current	24A	30A	40A	63A
SPECIFICATIONS				
Dimensions (Width*Depth*Height-mm)	280*105*360		350*130*455	445*130*630
Weight (kg)	6	7	12	27
Classification of waterproof	IP20			
Operating Temperature Range	-10 °C~55 °C			
Storage Temperature Range	-25 °C~60 °C			
Noise	<60dB			
Heat Dissipation	Forced air cooling (variable speed of fan)			
COMMUNICATION				
Embedded interface	RS485 / CAN / USB / Dry contact			
External module	WIFI/GPRS			
CERTIFICATION				
Safety	CE(IEC62109-1)			
EMC	EN61000			

Note: Above data are subject to change without notice. Special voltage could be customized.