



HYBRID INVERTER

series three-phase



Product introduction

The 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 prior are available to meet different application requirements.

Performance characteristics

High energy conversion efficiency

Hight charging and inversion efficiency, low loss and energy saving.

Four charging modes

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

Emergency function

Support battery-free output, only PV start and loading, 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.

Protection function

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

Timed charging and discharging function

Allowing for segmented charging and discharging at different times.

Technical parameters

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
Maximum Peak Power (W)	13000	16000	19000
Load Capacity with Motors(HP)	5	6	7
Rated AC Output	400 VAC Three phase, 50 / 60Hz		
Output Voltage Waveform	Pure Sine Wave		
Inverter and Bypass Switching Time	10ms (typical)		
Maximum Battery Inverter Efficiency	≥93%		
Overload Protection	102%~110%, 5min; 110%~125%, 10s; >125%, 5s		
BATTERY			
Battery Type	Lithium / Lead-acid / User Defined		
Rated Battery Voltage(VDC)	48		
Battery Voltage Range(VDC)	40~60		
Max.Mains Charging Current(A)	100	120	120
Max.Hybrid Charging Current(A)	200	220	240
Charging current error(ADC)	±3		
Charging Short Circuit protection	Blown Fuse		
PV INPUT			
MPPT Quantity	2		
Max. PV array power(W)	6000+6000	7500+7500	9000+9000
Max. PV input current(A)	22+22		
Max. Open Circuit Voltage(VDC)	800+800		
MPPT Voltage Range(VDC)	200~650		
MPPT Tracking Efficiency	99.9%		
MAINS INPUT			
Input Voltage Range(VAC)	Phase Voltage170~280, Line Voltage305~485		
Frequency Range(Hz)	50/60±0.3		
Input Short Circuit Protection	Circuit breaker		
Bypass Overload Phase Current(A)	23	29	35
SPECIFICATIONS			
Dimensions (D*W*H)mm	130*445*630		
Weight(kg)	27		
Classification of waterproof	IP20		
Operating Temperature Range(°C)	-10~55		
Storage Temperature Range(°C)	-25~60		
Noise(dB)	<60		
Heat Dissipation	Forced air cooling (variable speed of fan)		
COMMUNICATION			
Embedded interface	RS485/CAN/USB/Dry contact		
External module	WIFI/4G		
CERTIFICATION			
Safety	CE(IEC62109-1)		
EMC	EN61000		

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