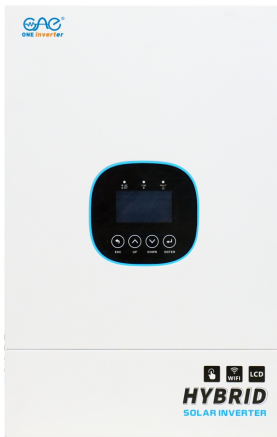


# HMS - SERIES

## Hybrid Solar Inverter

5.6KW 48V



### High Transfer Efficiency :

This Pure Sine Wave Solar Inverter is a combination of an inverter, battery charger, AC auto-transfer switch and MPPT solar charge controller. High transfer efficiency is above 95%.

### MPPT Charge controller :

100A MPPT controller with high tracking efficiency of up to 99% can charge 48v lead-acid batteries (Seal, AGM, Gel, Flooded), LiFePo4 batteries and lithium batteries from solar panels, the grid, or a generator. Maximum PV Array Power is 6000W and the MAX PV input voltage is 500VDC.

### Parallel Function :

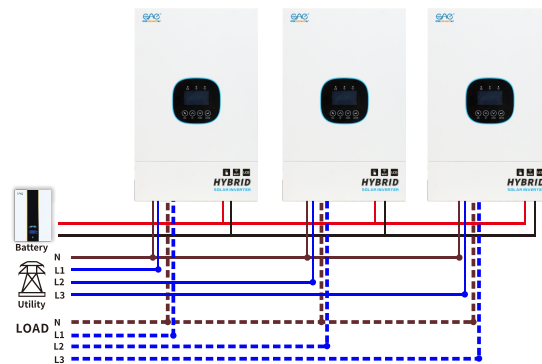
The 5.6KW solar inverter charger allows connection of up to 6 units simultaneously. When you connect multiple inverters in parallel, the combined power capacity of your system multiplies, making it a cost-effective solution for larger energy demands.

### Flexible Setting of the Priority for Charging and Output :

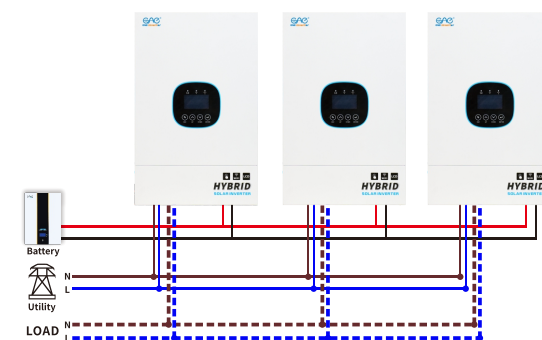
This inverter charger provides 3 charging modes(Solar First, Only Solar, Hybrid Charging) and 3 output modes(Utility First, Solar First, SBU priority), you can flexibly set the priority for power input and output based on your specific needs and environmental conditions.

### Multiple Protection :

Battery overcharging, Over-discharging, Overloading, Short-circuiting, and auto restart while AC is recovering. This ensures optimal system safety and longevity.



3 Phases parallel connection



Add Power Parallel Connection

Model	HMS-48562M100
Permitted parallel number	1-6units
<b>AC mode</b>	
Rated input voltage	220/230Vac
Input voltage range	(170Vac~280Vac)±2%
Frequency	50Hz/60Hz (Auto detection)
Frequency Range	47±0.3Hz~55±0.3Hz(50Hz);
Overload/short circuit protection	Circuit breaker
Efficiency	>95%
Conversion time (bypass and inverter)	10ms(typical)
AC reverse protection	Available
Maximum bypass overload current	40A
<b>Inverter mode</b>	
Output voltage waveform	Pure sine wave
Rated output power (VA)	5600
Rated output power (W)	5600
Power factor	1
Rated output voltage (Vac)	230Vac
Output voltage error	±5%
Output frequency range (Hz)	50Hz±0.3Hz 60Hz±0.3Hz
Maximum Efficiency	>92%
Overload protection	(102% < load < 125%) ± 10%: report error and turn off the output after 1 minutes; (125% < load < 150%) ± 10%: report error and turn off the output after 10 seconds; Load > 150% ± 10%: report error and turn off the output after 5 seconds
Peak power	11200VA
Loaded motor capability	4HP
Rated battery input voltage	48V(Minimum starting voltage 44V)
Battery voltage range	40.0Vdc~60Vdc±0.6Vdc(undervoltage alarm/turnoff volatage/ overvoltage alarm/overvoltage restoration...settable LCD screen)
Power saving mode self consumption	Load ≤ 50W
<b>AC charging</b>	
Battery type	Lead acid or lithium battery
Maximum charge current (can be set)	0-60A
Charge current error	± 3Adc
Charge voltage range	40-58Vdc
Short circuit protection	Circuit breaker and blown fuse
Circuit breaker specifications	40A
Overcharge protection	Alarm and turn off charging after 1 minute
<b>PV charging</b>	
Maximum PV open circuit voltage	500Vdc
PV operating voltage range	90-500Vdc
MPPT voltage range	90-450Vdc
Battery voltage range	40-60Vdc
Maximum PV input power	6000W
Maximum PV input current	22A
PV charging current range (can be set)	0-100A
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
<b>Hybrid charging Max charger current specifications (AC charger+PV charger)</b>	
Max charger current (can be set)	0-100A
<b>Certified specifications</b>	
Certification	CE(IEC62109-1)/CETL(UL 1741 C22.2 NO.107.1)/FCC/SAA
EMC certification level	EN61000
Operating temperature range	-10°C to 55°C
Storage temperature range	-25°C~60°C
Humidity range	5% to 95%(Conformal coating protection)
Noise	≤60dB
Heat dissipation	Forced air cooling, variable speed of fan
Communication interface	USB/RS485(WiFi/GPRS)/Drycontact control
Product Size(D*W*H)	455mm*340mm*140mm
Packing Size(D*W*H)	533mm*423mm*225mm
N.W.(Kg)	11.5KG
G.W.(Kg)	13.0KG