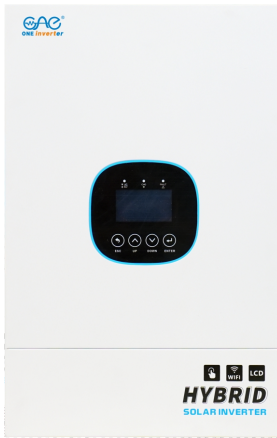


HMS - SERIES

Hybrid Solar Inverter

6.2KW 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 :

120A 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 7000W and the MAX PV input voltage is 500VDC.

Parallel Function :

The 6.2KW 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-48622M120
Rated Power	6.2KW
Input Voltage Waveform	Sinusoidal (utility or generator)
Nominal Input Voltage	230Vac
Low Loss Voltage	170Vac±7V (UPS) 90Vac±7V (Appliances) 180Vac±7V (UPS) 100Vac±7V (Appliances)
Low Loss Return Voltage	280Vac±7V
High Loss Voltage	270Vac±7V
High Loss Return Voltage	300Vac
Max AC Input Voltage	50A
Max AC Input Current	50Hz / 60Hz (Auto detection)
Nominal Input Frequency	40±1Hz
Low Loss Frequency	42±1Hz
Low Loss Return Frequency	65±1Hz
High Loss Frequency	63±1Hz
High Loss Return Frequency	
Output Short Circuit Protection	Line mode: Circuit Breaker Battery mode: Electronic Circuits
Efficiency (Line Mode)	>95%(Rated R load, battery full charged)
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)
Output power de-rating: For 6.2KW models, when AC input voltage under 170V the output power will be de-rated.	
Output Voltage Waveform	Pure Sine Wave
Output Voltage Regulation	230Vac±5%
Output Frequency	60Hz or 50Hz
Peak Efficiency	93%
Overload Protection	100ms@≥205% load; 3s@≥150%load; 5s@110%~150%load
Surge Capacity	2*rated power for 5 seconds
High DC Cut-off Voltage	66Vdc
Low DC Cut-off Voltage	44Vdc
Nominal DC Input Voltage	48Vdc
Cold Start Voltage	46.0Vdc
Low DC Warning Voltage	46.0Vdc
Low DC Warning Return Voltage	42.8Vdc
@ 20%≤load<50%	40.4Vdc
@ load<20%	48.0Vdc
@ 20%≤load<50%	44.8Vdc
@ load<20%	42.4Vdc
@ 20%≤load<50%	44.0Vdc
@ load<20%	40.8Vdc
@ 20%≤load<50%	38.4Vdc
High DC Recovery Voltage	64Vdc
High DC Cut-off Voltage	66Vdc
DC Voltage Accuracy	+/-0.3V@ no load
THDV	<5% for linear load, <10% for non-linear load @ nominal voltage
DC OffSet	≤100mV
Charging Current (UPS)	80A
Flooded Battery	58.4Vdc
AGM / Gel Battery	56.4Vdc
Floating Charging Voltage	54Vdc
Overcharge Protection	66Vdc
Charging Algorithm	3-Step
Charging Curve	
MODEL	6.2KW
Rated Power	7000W
Max. PV Array Open Circuit Voltage	500Vdc
PV Array MPPT Voltage Range	90Vdc-450Vdc
Max. Input Current	27Ax1
Start-up Voltage	120Vdc+/-5Vdc
Maximum Charging Current	120A
Power Limitation	
MODEL	6.2KW
Safety Certification	CE
Operating Temperature Range	-10°Cto40°C
Storage temperature	-15°C-60°C
Humidity	5% to 95% Relative Humidity (Non-condensing)
Product Size(D*W*H)	528mm*325mm*131mm
Packing Size(D*W*H)	583mm*405mm*217mm
N.W.(Kg)	12.2KG
G.W.(Kg)	13.8KG
Max parallel numbers	6
Circulation Current under No Load Condition	Max 2A
Power Unbalance Ratio	<5% @ 100% Load
Parallel communication	CAN
Transfer time in parallel mode	Max 50ms
Parallel Kit	YES

Note: Parallel feature will be disabled when only PV power is available