

HMS-11KW

Hybrid Solar Inverter

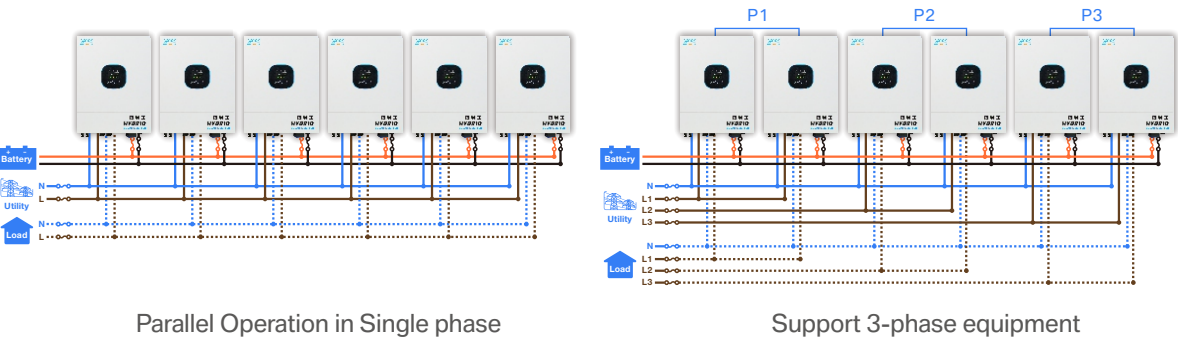


The HMS Series is a professional hybrid solar inverter charger for backup, off-grid, and energy storage systems. It features pure sine wave output, 11KW rated power, 2X surge capacity (5s), ≤10ms UPS transfer, supports up to 6 parallel units, and includes a high-current charger (120A/80A×2) compatible with lead-acid and lithium batteries.

FEATURES

- Rated power 11KW.
- Pure sine wave AC output.
- With BMS / COMM communication.
- WiFi remote monitoring (optional).
- System will go to bypass and cut off charging if an error happens under utility grid mode.
- Grid-powered only, battery-free operation.

PARALLEL & THREE-PHASE OPERATION UP TO 6 UNITS



Parallel Operation in Single phase

Support 3-phase equipment

MODEL	11KW
Rated Power	11KW
Input Voltage Waveform	Sinusoidal (utility or generator)
Nominal Input Voltage	230Vac
Low Loss Voltage	170Vac±7V (UPS); 90Vac±7V (Appliances)
Low Loss Return Voltage	180Vac±7V (UPS);100Vac±7V (Appliances)
High Loss Voltage	280Vac±7V
High Loss Return Voltage	270Vac±7V
MaxAC Input Voltage	300Vac
MaxAC Input Current	80A
Nominal Input Frequency	50Hz / 60Hz (Auto detection)
Low Loss Frequency	40±1Hz
Low Loss Return Frequency	42±1Hz
High Loss Frequency	65±1Hz
High Loss Return Frequency	63±1Hz
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 11KW 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
0 load<20%	42.8Vdc
@ 20%≤load <50%	40.4Vdc
Low DC Warning Return Voltage	48.0Vdc
@ load <20%	44.8Vdc
@ 20%≤load<50%	42.4Vdc
Low DC Cut-off Voltage	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)	120A
Flooded Battery	58.4Vdc
AGM / Gel Battery	56.4Vdc
Bulk Charging Voltage	54Vdc
Floating Charging Voltage	66Vdc
Overcharge Protection	3-Step
Charging Algorithm	
Charging Curve	
Solar Input	11KW
MODEL	11KW
Rated Power	5500W *2
Max. PV Array Open Circuit Voltage	500Vdc
PV Array MPPT Voltage Range	90Vdc~450Vdc
Max.Input Current	27Ax2
Start-up Voltage	120Vdc+/-5Vdc
Maximum Charging Current	80A X 2
Power Limitation	
MODEL	11KW
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)	430mm*618mm*152mm
Packing Size(D*W*H)	525mm*700mm*225mm
N.W.(Kg)	18.3KG
G.W.(Kg)	20.7KG
Maxparallel 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