

HS-pv series-SOLAR POWER FREQUENCY INVERTER CONTROL INTEGRATED MACHINE

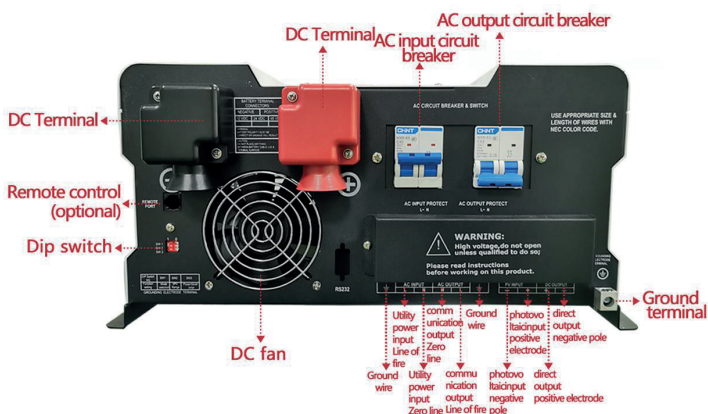
PRODUCT DESCRIPTION:

HS-PV This series of products use high-efficiency transformers (optional), built-in solar MPPT controller optional (30A-120A), and complementary with mains, solar priority mode, users can set the charging mode according to the use environment, Product integrated management has the advantages of high conversion efficiency, impact resistance, and strong load capacity. Users only need external solar modules and batteries to form an off-grid power generation system. HS-PV is a multi-functional and intelligent inverter control all-in-one machine. It is currently the highest-end product in industrial frequency inverters.

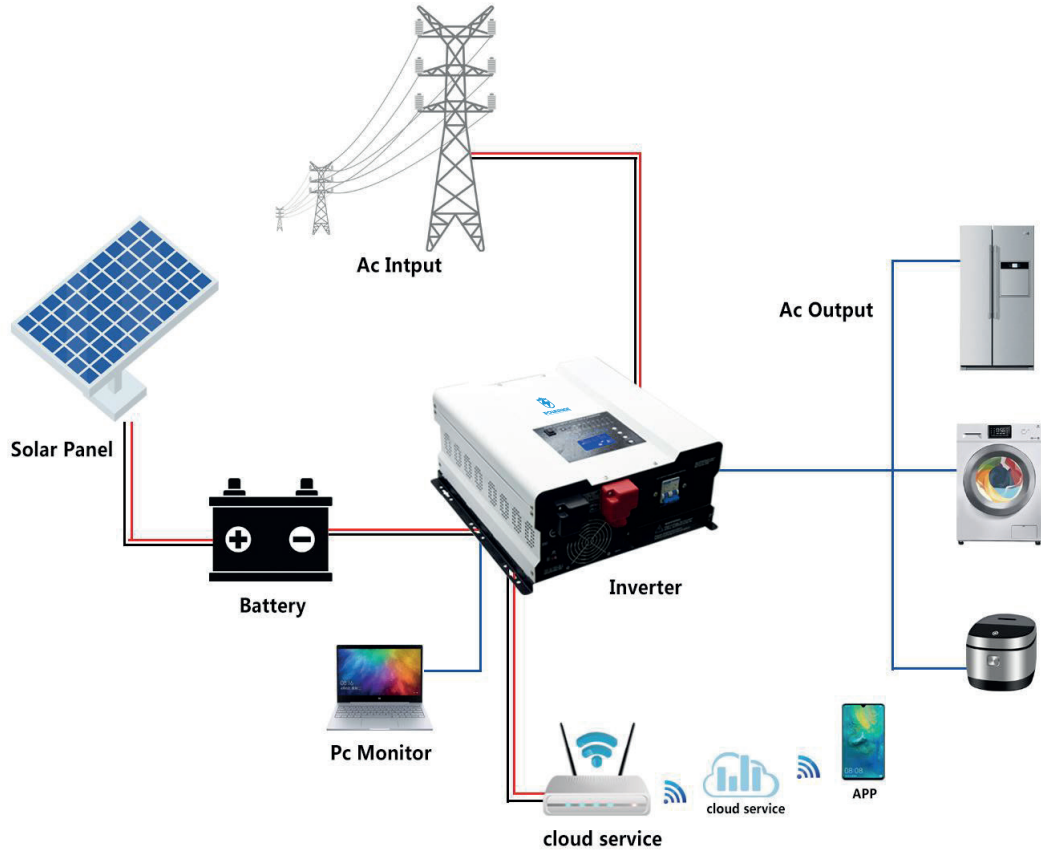


PRODUCT FEATURES:

1. Pure sine output is suitable for various loads. It can be used with mixed power supply such as mains/diesel generators Automatic switching of
2. 5 functions: mains bypass, mains charging, solar charging, inverter, UPS
3. Built-in MPPT/solar charge controller (controller power 40/60A/80A/120A optional)
4. Contains relay switching and AC/DC circuit breaker, with multiple protections such as undervoltage /overvoltage/short circuit/overload/over temperature
5. DIP switch selection: battery undervoltage point, input AC range, energy saving mode, output frequency, priority mode
6. The efficiency is 3~5% higher than the ordinary power frequency series, and the self-consumption is reduced by 30%~50%
7. Professional off-grid solar system solutions (optional)
8. Remote control RJ11/RJ45 and RS232/485 interface remote control panel (optional)
9. Pure sine wave series inverters are suitable for renewable energy systems, solar photovoltaic systems, vehicles, ships, Marine and emergency applications.



SYSTEM APPLICATION DIAGRAM



S-pv Series parameter table

Electrical Specifications										
Model	HS-PV	1.0KW	2.0KW	3.0KW	4.0KW	5.0KW	6.0KW	8.0KW	10.0KW	12.0KW
Rated Power		1.0KW	2.0KW	3.0KW	4.0KW	5.0KW	6.0KW	8.0KW	10.0KW	12.0KW
Peak Power		3.0KW	6.0KW	9.0KW	12.0KW	15.0KW	18.0KW	24.0KW	30.0KW	36.0KW
Output Voltage	Pure Sine Wave (mains or generator) >88%(Peak)									
Rated Efficiency	>95%									
Power Factor	0.9-1.0									
Rated Output Voltage	100-110-120Vac / 220-230-240Vac									
Output Frequency	50Hz +/- 0.3Hz/60Hz +/- 0.3Hz									
Short Circuit Protection	Yes, protection after 1 second short circuit									
Typical Switching Time	10ms (Maximum)									
Total Harmonic Time	< 10%									
Rated Input Voltage	12.0Vdc / 24.0Vdc / 48.0Vdc				24.0Vdc / 48.0Vdc			48.0Vdc / 60.0Vdc / 72.0Vdc		
Minimum Starting Voltage	10.0Vdc / 10.5Vdc for 12Vdc Mode				*2 for 24Vdc, *4 for 48Vdc *5 60Vdc *6 72Vdc					
Low Battery Voltage Alarm	10.5Vdc / 11.0Vdc for 12.0Vdc Mode									
Low Voltage Cut Out	10.0Vdc / 10.5Vdc for 12Vdc Mode									
High Voltage Cut Out	16.0Vdc for 12Vdc Mode									
Low Voltage Voltage	15.5Vdc for 12.0Vdc Mode									
The Output Voltage	Depends on the battery type									
Charging Circuit Breaker Specifications	15A	20A	30A	40A	40A	40A	50A	80A	80A	
Maximum Charging Current	See detailed table									
Starting Voltage	10.5-15.7Vdc for 12Vdc Mode				*2 for 24Vdc, *4 for 48Vdc, *6 72Vdc					
Overcharge Protection Shutdown Point	more than the 15.8Vdc for 12Vdc Mode									
Rated Input Voltage	100-110-120Vac / 220-230-240Vac									
Maximum Input Voltage	150Vac For 120Vac LV Mode; 300Vac For 230Vac HV Mode									
Rated Input Frequency	50Hz or 60Hz									
Low Frequency Cut Out	47 +/- 0.3Hz for 50Hz, 57 +/- 0.3Hz for 60Hz									
High Frequency Cut Out	55 +/- 0.3Hz for 50Hz, 65 +/- 0.3Hz for 60Hz									
Overload Protection	Yes									
Output Short Circuit Protection	Yes									
Maximum Bypass Current	30Amp			40Amp				80Amp		
Solar System Voltage	MPPT 12V/24V/48V automatic recognition									
Open Circuit Voltage of Photovoltaic Panel	18~150Vdc@12V 35~150Vdc@24V 60~150Vdc@48V									
Rated Charging Current	30A-12-A (optional)									
Charging Efficiency	97.6%									
Rechargeable Battery Type	Valve-regulated lead -acid battery Gel battery Lithium battery									
Charging Method	Four-stage charging: constant current charge, constant voltage charge, float charge, equal charge									
Safety Protection	Solar Panel Short Circuit protection, overcharge protection, over discharge protection, overload protection									
Installation	Wall Mount									
Inverter Size (length * width * height)	340*420*200mm			425*375*200mm			560*420*235mm		655*490*240mm	
Inverter Shell Size (length * width * height)	415*440*300mm			500*495*300mm			660*470*310mm		720*470*290mm	
Net Weight of Inverter with Solar Rear Kg	16	20	26.5	31.5	33.5	37.5	56.5	58.5	61.5	
Package Includes Solar Rear Unit net Weight Kg	19	29.5	38	40	44	63.5	66	68.5	70.5	
Indicators	Status LEDs / Status LEDs + LCD									
Standard Warranty	2 Years									