

HS/R-PV Rack-mounted Solar Inverter



Main Features

System Safety and Reliability

- Compatible with grid voltage and generators.
- Wide range MPPT voltage.
- AC output pure sine wave does not affect the working life of the equipment used.
- Parallel redundant design, and the uneven of the parallel load is <5%.
- All PCBs are sprayed with three anti-treatments to ensure machine long-term use.
- Powerful fault protection functions (including overload protection, over-current protection, high temperature protection, short circuit protection, built-in fuses, etc.)

Energy Efficient, Good Performance

- Low no-load loss, LCD intelligent display;
- Almost no noise, no smoke, no impact on the surrounding environment
- It can be connected with lithium battery to improve the reliable and efficient protection for extending the backup time of the system;

Digital Intelligent Design

- PV Solar charging and grid charging can be set through the LCD screen.
- Smart battery charger designed to optimize battery performance and increase the life of external batteries;
- The whole machine adopts full digital operation processor, which has high output voltage regulation precision, integrates analog control into digital control, to provide control flexibility and stability, and ensures product safety and reliability;
- High-speed digital controller is used to realize circuit control, parameter setting, operation program management, advanced self-test and self-detection function, which can perform self-test and fault analysis on all independent circuit connections on the circuit board.

Safe and Convenient Maintenance Design

- Standard 19-inch 2U appearance structure design, easy to install.
- The system is small and flexible, and the high-performance structure is combined to facilitate carrying and moving;
- The parallel machines are simple and easy to operate. It can not only be single phase in parallel, also three phase in parallel on demand;
- Simple operation, user-friendly setting, LCD screen display.

HS/R-PV Series Brief

HS/R-PV series is the single phase input and single phase output rack-mounted full-intelligent solar inverter. It has the characteristics of green, high efficiency, safety and reliability, excellent performance, small size and light weight. The whole machine adopts intelligent digital control technology to ensure widely applicable for all types of loads. The HS/R-PV series uses smart battery charger design to optimize battery performance and extend battery life, digital auto-detection and protection function, and advanced remote communication monitoring to ensure safe and stable output loads.

Widely used in power industry, industrial manufacturing, ships, transportation, communications, computer, air conditioning, various household loads or small off-grid solar systems.



HS/R-PV Series Specification

Model	HS/R-PV 3KVA	HS/R-PV 5KVA	HS/R-PV 6KVA
Capacity kVA/kW	3kVA/3kW	5kVA/5kW	6kVA/5.1kW
Phase	Single Phase (L+N+G)		
INPUT			
Nominal Input Voltage	220Vac		
Input Voltage Range	170~300Vac		
Input Frequency Range	40~65Hz		
CHARGING			
Charging Voltage	56.4Vdc (can set 48-64Vdc)		
Battery Low-voltage	43.2Vdc (can set 40-54Vdc)		
Charging Current	10~60A		
OUTPUT			
Phase	Single Phase (L+N)		
Output Voltage	220Vac±5% (230/240 optional)		
Output Frequency	50Hz±0.4		
Crest Factor	>3:1		
Harmonic Distortion (At battery rated input voltage)	<3% Battery rated input voltage		
Transfer Time	<10ms (single unit working model), <20ms (In parallel working model)		
Overload Capacity	110%~150% 10s, ≥150% 5s		
Efficiency	>90%		
PV MODEL			
Rated Capacity	3KW	4KW	
Efficiency	98%		
MPPT Charge Controller Working Voltage	60~115Vdc		
Maximum Charging Current	140Amp		
Battery Voltage Accuracy	±0.3%		
PV Voltage Accuracy	±2V		
System Parameters			
Parallel	N+1 modular parallel redundancy (Max quantity in parallel is 9pcs)		
Protective function	Output short circuit, Output overload, Battery high and low voltage, Over temperature, DC anti-reverse protection, etc.		

Working Environment	Ambient temperature:0~40°C, Humidity:5%~95%, Altitude <1000m	
Cooling Mode	Forced air cooling (forward inlet/back outlet)	
Wiring Mode	Back terminal block wiring	
Communication Interface	RS 232, USB	
Protection Level	IP21	
Electromagnetic Compatibility	EMC 62040-2 C2 for CE models	
Noise (dB)	<55dB (Test 1m from the machine)	
Dimension (W*D*H) mm	438*400*86.3	
Weigh (Kg)	9	10.5