

Solar-Power Series

Off-grid Solar Inverter 5000VA/5000W



FEATURES

- ◆ Max Input Power: 18A/6000W, Power Factor 1.
- ◆ Wide range of input voltages: 208VAC-240VAC.
- ◆ Smart design and unique lithium battery wake-up function.
- ◆ Support WIFI/GPRS remote monitoring, setting and upgrade.
- ◆ Built-in MPPT controller, PV array input voltage can be up to 500v.
- ◆ Support 9 units paralleling operation for single phase and three phase.
- ◆ Flexible working modes with settable AC/Solar Input priority and output priority.
- ◆ Advanced battery management; supports lithium batteries and lead-acid batteries.
- ◆ Support micro grid system with separate generator input terminal, and can remote control generator.
- ◆ Touch Screen is on request (not FOC).
- ◆ With CAN, RS485 for BMS communication.

Technical Parameter

MODEL	Solar - Power Series 5000VA/5000W Off-grid solar	Solar - Power Series 5000VA/5000W Off-grid solar-B
Rate Power	5000W/5000VA	5000W/5000VA
Surge Power	Bypass 9200VA	Bypass 9200VA
Parallel Function	YES	YES
BMS	YES	YES
Touch Screen	NO	YES
Input		
Main Topology	L+N+PE	
Nominal Voltage	6.5kw, 50/60Hz±0.1%	
Power Factor	1	
Input Voltage Range	90~280Vac±3V(Normal mode) / 170~280Vac±3V(UPS mode)	
Frequency Range	40~70Hz±0.1% (Auto Sensing)	
Output		
Output Voltage	208Vac / 220Vac / 230Vac / 240Vac±5%, 50/60Hz±0.1%	
Transfer Time	10ms (For Personal Computers), 10ms (For Home Appliances)	
Overload Capacity (Battery Mode)	1min@102%~110%Load; 10s@110%~130%Load; 3s@130%~150%Load; 0.2s@>150% Load	
Peak Efficiency (Battery Mode)	94.00%	
Standby Power	< 60W	
Waveform	Pure sine wave	
Battery		
Battery Voltage	48VDC	
Start Voltage	46VDC	
Constant Charging Voltage (adjustable)	56.4VDC	
Overcharge Voltage	60.4VDC	
Float Charging Voltage (adjustable)	54VDC	
Charge		
Charging method	MPPT	
Maximum input current	18A	
Max. PV Array Power	6000W	
PV Array Voltage Range	120V-500VDC	
Charging current	2-80A(adjustable)	
Max Charging Current (AC charger)	80A	
Max Charging Current (solar charger)	80A	
Tracking efficiency	99.5% max	
MPPT Range	120~430VDC	
Display		
LCD	Operating mode/load/input/output, etc	
Interface		
RS485, CAN		
RS232	5PIN / Pitch2.0mm, Baud 2400	
Expansion Slots	2X5 PIN / Pitch2.54mm ; SNMP card, USB, Dry junction card, Lithium battery BMS communication card, WIFI (5KW)	
Parallel interface (optional)	DB9, Parallel card	
Environment		
Temperature and humidity	-10°C~50°C (Derating when ambient temperature>40 °C) ; 20%~95% (No condensation)	
Noise	≤50dB	
Storage temperature	-15~60°C	
Altitude	The altitude should not exceed 1000m, with a reduction of 1000m or more and a maximum of 4000m. Refer to IEC62040	
Physical		
Dimension D*W*H (mm)	595*390*215	
Net weight (KG)	8.5	
Gross weight (KG)	9.7	

Product specifications are subject to change without prior notice.