

Single Phase Off-Grid Inverter

SolarAll 3.6-5.6kW

SolarAll 3-5kW single-phase off-grid solar inverter is suitable for nomadic off-grid sites, communication base stations, islands, borders. Equipped with LED display, SolarAll 3.6-5.6kW single-phase off-grid solar inverter supports USB/RS232/RS485/Wifi/Dry-contact, with exquisite design and high cost performance.



Efficient/Higher Revenue

- 200% AC overload (100ms), withstand transient load impact
- Wide voltage range and low startup voltage
- Wide MPPT voltage range to compatible with different types of crystalline silicon modules
- Fast AC bypass charging

Intelligent/Simple O&M

- Support USB/RS232/RS485/Wifi/Dry contact
- Data log events stored in the inverter
- Smart battery charger design, optimize battery performance
- Remote monitoring and operation via PC or mobile phones

Flexible/Abundant Configuration

- Multiple charging voltage levels for different batteries
- Multiple operating modes: PV priority/Grid priority/Battery priority
- Support non-linear load
- Parallel operation up to 9 units

Technical Specifications

Model	SA36-48	SA50-48
Input		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50Hz/60 Hz (Auto Sensing)	
Output		
AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%	
Overload Capacity	5s@≥150% load; 10s@110%~150% load; 100ms @ ≥200% load	
Efficiency (Peak)	93%	
Transfer Time	10ms (For Personal Computers); 20 ms (For Home Appliances)	
Waveform	Pure Sine Wave	
Battery		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	66 VDC	
Solar Charger & AC Charger		
Solar Charger Type	MPPT	
Maximum PV Array Power	5000 W	6000 W
MPPT Range @ Operating Voltage	120 ~ 430 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	450 VDC
Maximum Solar Charge Current	100 A	120 A
Maximum AC Charge Current	100 A	120 A
Physical		
Dimension, D x W x H (mm)	140 x 295 x 468	
Net Weight (kgs)	11.0	12.0
Communication Interface	USB/RS232/RS485/Wifi/Dry-Contact	
Environment		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Highlights



EFFICIENT
HIGHER REVENUE



FLEXIBLE
ABUNDANT
CONFIGURATION



INTELLIGENT
SIMPLE O&M