

Single Phase Off-Grid Inverter

SolarAll 3~12kW

SolarAll 3-12kW single-phase off-grid solar inverter is suitable for nomadic off-grid sites, communication base stations, islands, borders. Equipped with LED display, SolarAll 3-12kW 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	SAOF-3.0	SAOF-5.0	SAOF-6.0	SAOF-8.0	SAOF-10.0	SAOF-12.0
Off-Grid Output						
Max. Output Power	3kVA	5kVA	6kVA	8kVA	10kVA	12kVA
Nominal Output Voltage	220VAC					
Output Voltage Range	176-264V					
Nominal Output Current	13.6A	22.7A	27.2A	36.4A	45.4A	54.4A
Peak Power & Duration	150% (10s)					
Grid Parameter						
Max. AC Input Current	60A			100A		
Nominal AC Voltage	220VAC					
AC Voltage Range	176-264V					
Nominal AC Frequency	50/60Hz					
THDi	<3%					
Battery Parameter						
Battery Type	Lithium-ion/Lead-Acid					
Nominal Battery Voltage	48V/51.2V					
Battery Voltage Range	42-58V					
Max. Charging/Discharging Current	60A	100A	120A	200A		
PV Input						
Max. DC Input Power	6600Wp	9000Wp	10800Wp	14400Wp	18000Wp	21600Wp
Starting Voltage	120V					
MPPT Voltage Range	100-500V					
Full Load MPPT Voltage Range	350-450V					
Number of MPPT	2			4		
Max. Input String per MPPT	1			1		
Nominal Input Voltage	360V					
Max. DC Input Current	18A/18A					
Max. Short-Circuit Current	22A/22A					
Efficiency						
European Efficiency	97.20%	97.30%		97.20%	97.30%	
Max. Efficiency	97.40%	97.50%		97.40%	97.50%	
Max. Battery Charging/Discharging Efficiency	94%					
General Data						
Dimensions (WxHxD)	360x470x114			480x500x200		
Weight (kg)	14kg			29kg		
Noise	<45dB(A)					
Operating Temperature Range	-25C to +60C (>45C Power Derating)					
Cooling Method	Fan Cooling					
Warranty	5 Years					
Ingress Protection Grade	IP20					
Monitoring	LCD/LED/APP/WIFI/Bluetooth					
Communication Port	CAN+RS485					
Protection	Reverse Polarity Protection / Over Current-Voltage Protection / AC Short Circuit Protection / PV Ground Fault Monitoring / Over Temperature Protection					
Certification	EN62109-2:2011, EN62109-1:2010, EN61000-6-1, EN61000-6-2					

Highlights



EFFICIENT
HIGHER REVENUE



FLEXIBLE
ABUNDANT
CONFIGURATION



INTELLIGENT
SIMPLE O&M