

ALPS Series

High Frequency Off-grid Inverter 3/5.5/11kW



Ideal for **remote areas**, this inverter seamlessly connects to solar panels and various batteries for flexible energy solutions. It offers **real-time monitoring**, stable power delivery for electronics, and built-in **safety features**. Easily scalable through **parallel operation**, it's a versatile solution for efficient and independent power generation, perfect for emergencies.

MEET THE POLAR ESS HIGH FREQUENCY OFF-GRID INVERTER.

Smaller size, lighter weight, higher efficiency

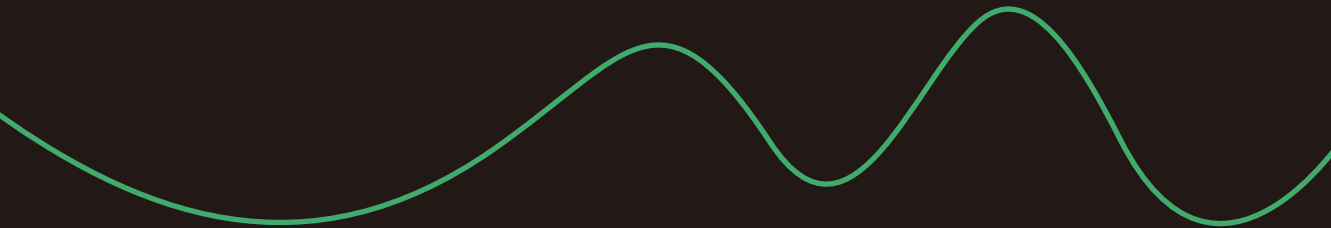
Output short circuit protection

Pure sine wave output, adaptable to various loads

Capable to work without battery



- Compatible with lithium battery, and lead acid battery.
- Parallel Capability: Supports up to 9 units, offering expanded capacity (ALPS OG3-24 not included).
- Power factor 1.0, indicating a robust load capacity.
- Numerous parameters can be customized based on user requirements.
- Max PV input of 500Vdc minimizes PV-side installation wiring.
- Supports on-demand activation of lithium batteries, optimizing performance.



Model	ALPS OG3-24	ALPS OG5.5-48P	ALPS OG11-48P
Input			
Nominal Input Voltage	220/230/240VAC		
Input Voltage Range	90-280VAC±3V (Normal Mode) 170-280VAC±3V (UPS Mode)		
Frequency Range	50/60Hz±5%		
Output			
Rated Power	3000W	5500W	11000W
Output Voltage	220/230/240VAC±5%		
Output Frequency	50/60Hz±0.1%		
Waveform	Pure Sine Wave		
Transfer Time (Adjustable)	10ms (for Computer Equipment); 20ms (for Household Equipment)		
Peak Power	6000VA	11000VA	22000VA
Overload Capability	Battery Mode: 10.5s @110%~150% Load; 5.5s @150%~200% Load; 200ms @>200% Load		
Peak Efficiency	94%		
Battery			
Rated Voltage	24VDC	48VDC	
Constant Charging Voltage	28.2VDC	56.4VDC	
Float Charging Voltage	27VDC	54VDC	
Charger			
PV Charging Method	MPPT		
Max. PV Power	4000W	5500W	2*5500W
MPPT Voltage Range	120~500VDC		

Max. PV Input Voltage	500VDC		
Max. MPPT Current	16A	20A	20A/20A
Max. PV Charge Current	100A	100A	160A
Max. AC Charge Current	60A		120A
Max. Charge Current	100A	100A	160A

General Data

LCD	Capable of displaying the operating mode, load, input, and output information.		
Communication Port	RS232: Baud Rate 2400		
	Expansion Slot Interface: Lithium Battery BMS, WiFi, Dry Contact		
	No Parallel Support	Support Parallel	
Operating Temperature	0 C ~40 C		
Storage Temperature	-15 C ~60 C		
Humidity	20%~95% Non-condensing		
Altitude (Max.)	4000m (Derating above 2000m)		
Noise	< 50dB		
Dimension (H x W x D)	495 x 312 x 125mm	571 x 500 x 141mm	
Weight(kg)	7.5	8.56	19.5

