AL Solar AC DC Power System

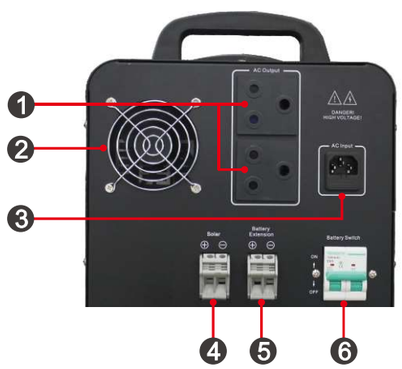
PRODUCT OVERVIEW

The product applies to diversified loads because its digital design, pure sine wave output and excellent overcurrent protection can withstand the loads with a large starting current; the product is provided with independent solar three-stage charge management to improve charge effciency of its battey and realize a longer life; the product provides universal 5VDC USB output port and 12VDC output to be widely applied to small solar power generation occasions including families, schools, street monitoring, forest monitoring, industrial and mining enterprises, frontier defense, sea islands, pasturing areas, etc.

MAIN FEATURES

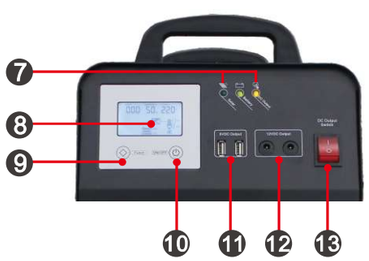
- Excellent performance because of an MCU intelllgent control technology;
- A wide range of applicable loads because of pure sine wave AC output;
- Convenient and practical 5VDC USB output port and 12VDC output port;
- Solar array and battery connrnon-anode systern input;
- Charge by mains supply for flexible conflguration (optional function);
- Overcharge protection and overdischarge protection for a longer battey life;
- LCD and LEDS for visualization of operation status of the equipment
- Overall automatic protection and alarms Including AC output over load protection, short circuit protection ,etc .

Solar system connection



TECHNICAL INDEXES

Model: AL	1KW/12V	1KW/24V	1.5KW/24V	2KW/24V	2KW/24V
Inverter					
Battery voltage	12V	24V			
In–built battery specification	100AH/12V	100AH/12V*2			200AH/12V*2
Rated power	1000W	1000W	1500W	2000W	2000W
Output voltage	220VAC				
Output frequency	50/60Hz				
Output waveform	Pure Sine Wave				
Charge by a mains supply					
Rated voltage	220VAC ---* ('*' means an optional function)				
Charge current	10A(MAX)	10A(MAX)		30A(MAX)	
Solar input					
Maximum photovoltaic voltage(VDC)	⩽25V	⩽150V			
Charge voltage(VDC)	10–25V	35V-150V			
Rated charge current(A)	30A	MPPT 30A			MPPT 60A
Maximum power(Wp)	360Wp	800Wp			1600Wp
Voltage of overcharge protection(VDC)	14.2V	28.4V			
Voltage of overcharge recovery(VDC)	14.0V	28.0V			
Voltage of floating charge(VDC)	13.7V	27.4V			
DC output					
Voltage of high–voltage protection(VDC)	16V	32V			
Voltage of high voltage recovery(VDC)	15.2V	30.4V			
Voltage of low voltage recovery(VDC)	12.6V	25.2V			
Voltage of low voltage protection(VDC)	11V	22V			
5VDC USB output port	2 units /MAX 2A				
12VDC output port	2 DC ports(MAX 2A))				
Starting temperature of the exhaust fan	> 45℃				
Ambient temperature for operation	0–40℃				
Ambient temperature for storage	–25 – +55℃				
Operation/storage conditions	0–90% (no condensation)				
External dimensions: DxWxH (mm)	423 x 260 x 453	380 x 380 x 520			555 x 515 x 540
Packing dimension: DxWxH (mm)	520 x 370 x 520	510 x 510 x 640			640x 600 x 695



Product Information

1. AC Output
2. Smart Cooling Fan
3. AC Input
4. Solar PV Input
5. Battery Extension
6. Battery Switch
7. LED Indicator
8. LCD Display
9. Function Buttons
10. ON/OFf Buttons
11. 5VDC Output
12. 12VDC Output
13. DC Output Switch