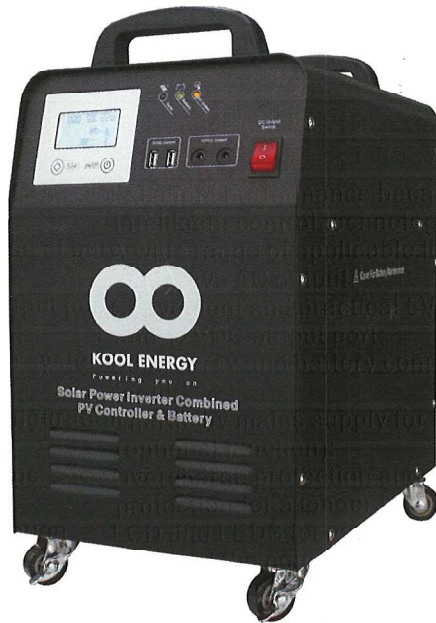


Kool Energy Solar Power System

PRODUCT OVERVIEW

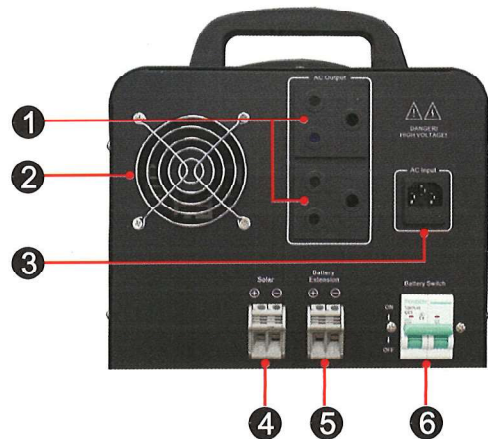
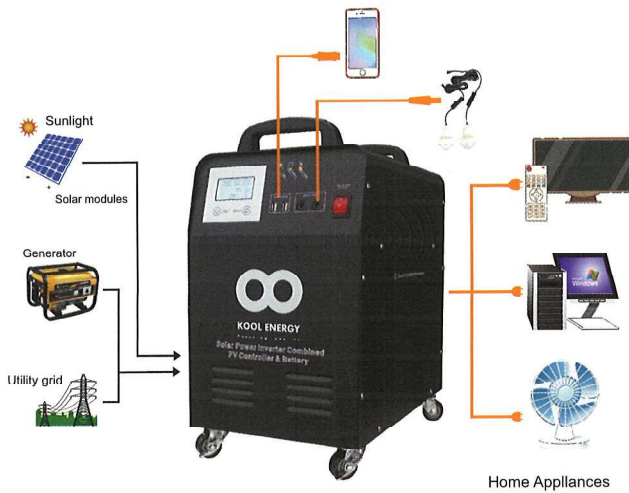
The product applies to diversified loads because its digital design, pure sine wave output and excellent overcurrent protection can withstand the loads with a large starting current; the product is provided with independent solar three-stage charge management to improve charge efficiency of its battery 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 intelligent 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 non-anode system input;
- Charge by mains supply for flexible configuration (optional function);
- Overcharge protection and overdischarge protection for a longer battery 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

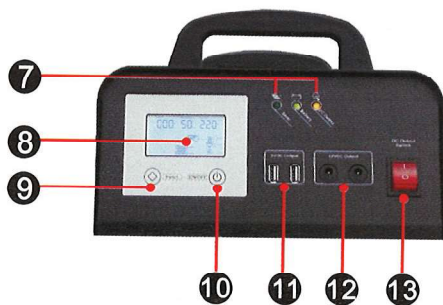
Rated voltage	220VAC ——* (* means an optional function)				
Charge current	10A(MAX)	10A(MAX)		30A(MAX)	

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°C				
Ambient temperature for operation	0-40°C				
Ambient temperature for storage	-25 - +55°C				
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		640 x 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