INVERTER SERIES KAPA Energie 1000

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 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 common–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 overload protection, short circuit protection,etc.

TECHNICAL INDEXES

Model: AL		1KW/12V	1KW/24V	1.5KW/24V
Inverter	Battery voltage	12V	24V	
	In–built battery specification	1*100AH/12V	2*100AH/12V	
	Rated power	1000W		1500W
	Output voltage	230VAC		
	Output frequency	50Hz		
	Output waveform	Pure Sine Wave		
Charge by a mains supply	Rated voltage	230VAC –––* ('*' means an optional function)		
	Charge current	10 A (MAX) –* ('*' means an optional function)		
Solar input	Maximum photovoltaic voltage(VDC)	⩽25V	⩽50V	
	Charge voltage(VDC)	10–25V	20–50V	
	Rated charge current(A)	30A		
	Maximum power(Wp)	360Wp	720Wp	
	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 + backboard 12V terminal block (MAX 8A)		
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)		437x270x470	380x380x520	
Packing dimension: DxWxH (mm)		520x320x520	510x510x640	