

INVERTER SERIES All-In-One -1000

ALL 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°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) | | 437x270x470 | 380x380x520 | |
| Packing dimension: DxWxH (mm) | | 520x320x520 | 510x510x640 | |