

Omega Series UM 1K-12 OFF-GRID INVERTER



Features

- Pure sine wave solar inverter.
- Output power factor 1.
- Selectable high power charging current.
- Wide DC input range.
- Selectable input voltage range for home appliances and personal computers.
- Configurable AC/Solar input priority via LCD setting.
- Compatible with mains voltage or generator power.
- Auto restart while AC is recovering.
- Overload and short circuit protection.
- Smart battery charger design for optimized battery performance.
- Cold start function.
- Optional anti-dusk kit.

Technical Specifications

Rated Power	1000 VA / 1000 W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170 - 280 VAC (For Personal Computers); 90 - 280 VAC (For Home Appliances)
Frequency Range	50 / 60 Hz ((Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230 VAC $\pm$ 5%
Surge Power	10000 VA
Efficiency (Peak)	90 - 93%
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)
Waveform	Pure sine wave
No Load Consumption	40 W
BATTERY	
Battery Voltage	12 VDC
Floating Charge Voltage	13.5 VDC
Overcharge Protection	16 VDC

Technical Specifications

SOLAR CHARGER & AC CHARGER	
Solar Charger Type	MPPT
Maximum PV Array Open Circuit Voltage	102 VDC
Maximum PV Array Power	500 W
MPPT Range @ Operating Voltage	17 ~ 80 VDC
Maximum Solar Charge Current	40 A
Maximum AC Charge Current	20 A
Maximum Charge Current	60 A
PHYSICAL	
Dimension, (D x W x H)	88 x 225 x 320 mm
Net Weight	4.4 kg
Communication Interface	USB / RS232
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

Product specifications are subject to change without further notice.