

## DIRECT SOLAR

- 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 to AC mains or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Battery equalization for optimized battery performance and lifecycle
- Cold start function

DIRECT SOLAR is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power.

Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

## TECHNICAL DATA SHEET

MODEL	DIRECT SOLAR VM 1K
Rated Power	1000VA/1000W
<b>INPUT</b>	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
<b>OUTPUT</b>	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	2000VA
Efficiency (Peak)	90% ~ 93%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Waveform	Pure sine wave
<b>BATTERY</b>	
Battery Voltage	12 VDC
Floating Charge Voltage	13.5 VDC
Overcharge Protection	16 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Maximum PV Array Open Circuit Voltage	102 VDC
Maximum PV Array Power	500 W
Maximum Range @ Operating Voltage	17~80VDC
Maximum Solar Charge Current	40 A
Maximum AC Charge Current	20 A
Maximum Charge Current	60 A
<b>PHYSICAL</b>	
Dimension, D x W x H (mm)	88x 225 x 320
Net Weight (kgs)	4.4
Communication Interface	USB/RS232
<b>ENVIRONMENT</b>	
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.



System Diagram

