



PV2000 Pro Series Solar Pure Sine Wave Inverters

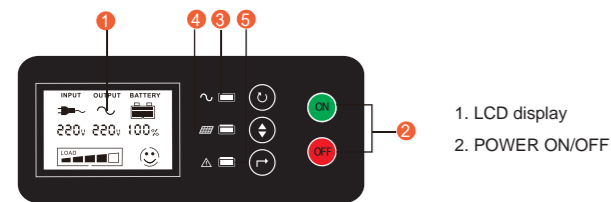
Feature:

- Rated power 1KW
- Pure sine wave output
- Built-in 50A PWM or MPPT solar charge controller
- Smart LCD setting (frequency , charge voltage, charge current, etc).
- 3 steps charging algorithm
- Built in AVR function
- Overload and short-circuit protection
- Battery reverse polarity protection
- Deep discharge protection
- Cold start function
- Support USB, RS232 (optional) monitoring function with free CD

Introduction:

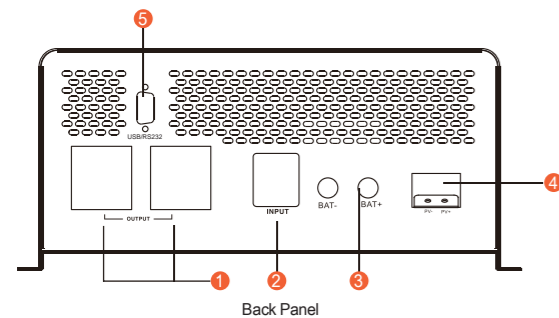
Built-in high efficiency solar controller. AC input voltage range for 140VAC-280VAC with regulated output (AVR) features, PV, AC function, A tracking feature such as power frequency. The output frequency can be set using the keys, AC /PV charging voltage, charge current, AC or PV priority mode, Battery under voltage shut-down point, and so many other functions.

LCD Display Information



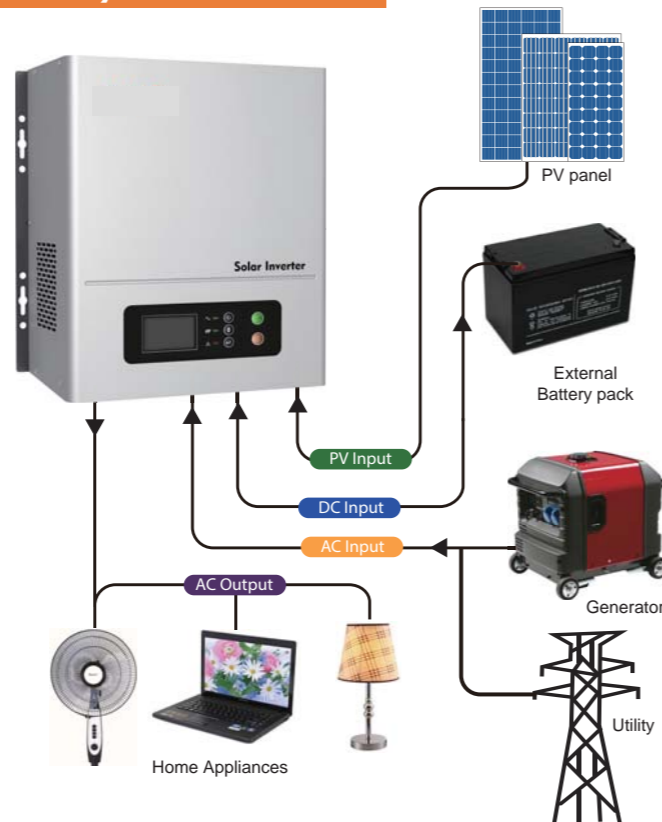
1. LCD display
2. POWER ON/OFF

LED Indicators	Messages	
3.Green(Line)	Constant on	Line input voltage normal
	Flashing	Line input voltage fault
4.Green(PV)	Constant on	PV input voltage normal
	Off	PV input voltage fault
5.Red(Fault)	Constant on	Fault mode
	Flashing	Battery low or overload warning

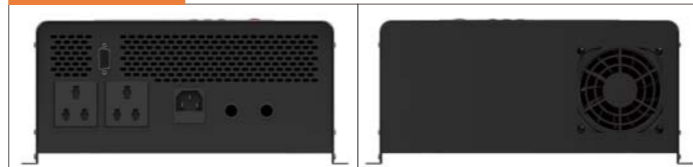


1. AC output
2. AC input
3. DC input connector(battery terminal)
4. PV-photovoltaic system
5. RS232(Optional) or USB communication port

Solar System Connection



Back Panel



Specification

MODEL	PV20-1012 Pro	PV20-1024 Pro	
Battery Input Voltage Rating			
	12VDC	24VDC	
INVERTER OUTPUT	Rated Power	1000W	1000W
	Instantaneous Power Drawn (20ms)	3000W	3000W
	Output Waveform	Pure sine wave	
	Output Voltage	230VAC(+/-10% RMS)	
	Output Frequency	50Hz/60Hz +/-1 Hz	
	Inverting Efficiency (peak)	>80%	
	Mains Mode Efficiency	> 95%	
Transfer Time	Typical 2-6ms 10ms(max)		
AC INPUT	Input Voltage	220/230/240VAC,	
	Input Voltage Range	140-280VAC(For Personal Computers)	
	Low Pressure Shutdown	140VAC+/-5	
	Low Response	150VAC+/-5	
	High Pressure Shutdown	280VAC+/-5	
	High Pressure Reply	270VAC+/-5	
	Low Shutdown	45+/-1Hz	
	Low Frequency Response	46+/-1Hz	
	High Frequency Shutdown	65+/-1Hz	
	High-frequency Response	64+/-1Hz	
	Frequency Range	50Hz/60Hz	
	BATTERY	Minimum Start Voltage	Battery under voltage shut-down point +0.5V
Low Battery Alarm		Battery under voltage shut-down point +0.5V	Battery under voltage shut-down point +1.0V
Low Battery Shutdown		(0.1V 1 10-12.0VDC mode) User set	(0.2V 1 20.0-24.0VDC mode) User set
Battery High Voltage Alarm		Voltage settings are +0.5V	
High Battery Voltage Recover		Battery Under voltage shut-down point +0.5V	Battery Under voltage shut-down point +0.5V
AC CHARGER		Float Voltage	13.5 13.6 13.7VDC to set
	Average Charge Voltage	(0.1V 1 13.8-14.5V mode) User set	(0.2V 1 27.6-29V mode) User set
	Maximum Charge Current	30A +/-3 A High-efficiency	15A +/-3 A High-efficiency
	BYPASS & PROTECTION	Input Voltage Waveform	Sine wave
Input Frequency		50Hzor60hz	
Low Frequency Switching		45+/-1HZ MIN	
High Frequency Switching		65+/-1HZ	
Overload Protection		110%~125%R load fault after 30s	125% ~150%R load fault after 3s
		>150%R load fault after 500ms	
SOLAR CHARGER	Output Short Circuit Protection	Yes	
	Bypass Circuit Breaker Insurance	10A	
	Maximum Current Bypass	10A	
	Maximum PV Charge Current	50A	
	Battery Voltage	Auto amplitude work	
	Maximum PV Array Power	150W*5 solar panels	150W*10 solar panels
MECHANICAL SPECIFICATIONS	MPPT Operating Voltage Range	16-60VDC	
	Maximum PV Array Open Circuit Voltage	60Vdc	
	Maximum Efficiency	> 95%	
	Standby Consumption	<2W	
	Assembly	Wall mount	
	Dimension (W*H*D) (mm)	301*328*132	
OTHER	Net Weight (Solar Charge)kg	10.25	
	Shipping Dimensions (mm)	395*328*190	
	Transport Weight KG	11.0	
	Working Environment	0° C-40 0-90°C Relative humidity () not dew.	
Noise	Less than 60db		
Display	LED + LCD		

* Product specifications are subject to change without further notice.