

PV1100 Plus Series High Frequency Solar Inverter

Feature:

- Rated power:1.2KVA-2.4KVA
- Simulated sine wave inverter
- Built-in 50A PWM Solar Charge Controller
- MFD (multi-function display)
- 10A or 20A standard charging current from utility
- AC/solar priority for output via MFD
- AC/solar priority for charging via MFD
- 3 steps charging algorithm
- Overload & short-circuit protection
- Battery reverse polarity protection
- Deep discharge protection
- Auto restart while AC/solar is recovering
- Adjustable solar and utility charging current

Introduction:

It is a cost effective, intelligent solar inverter which accepts Solar & Utility input at the same time. The comprehensive LCD display offers user-configurable and easy-accessible button adjustment such as battery charging current, AC/solar charger priority and DC priority. When battery voltage is low, it will automatically switch to AC grid to supply continuous power to the loads.

LCD Display Information

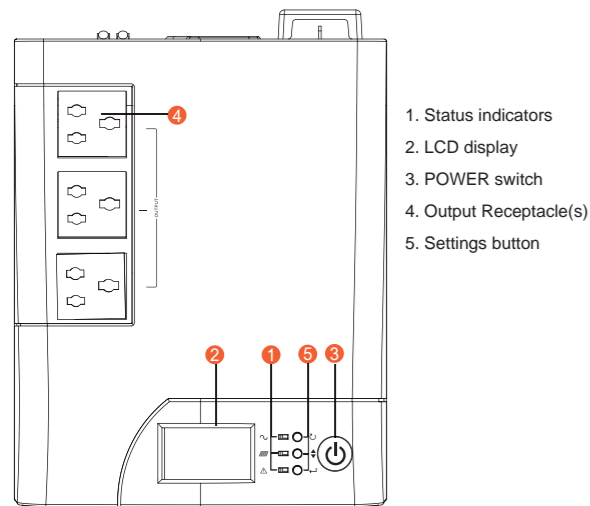


Figure 1 Top Panel

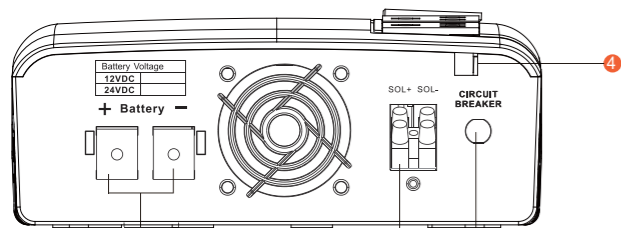
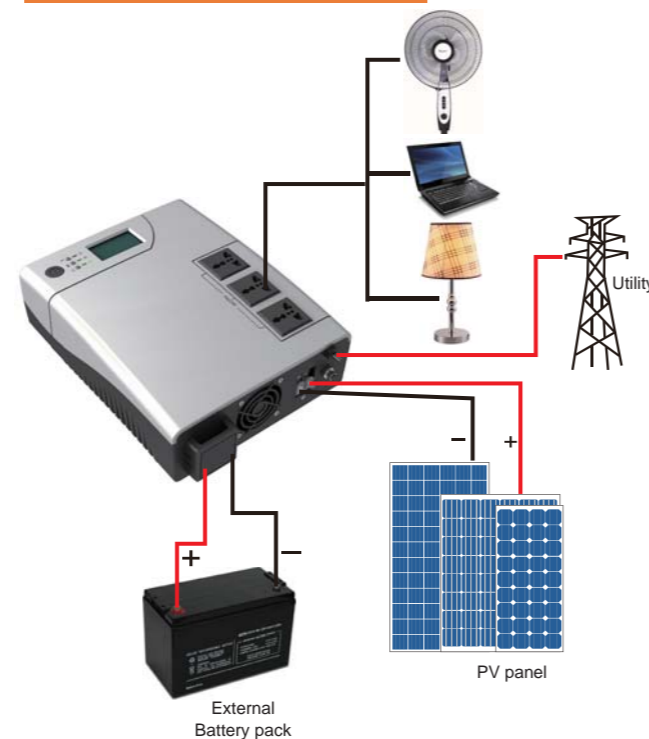


Figure 2 Back Panel

1. DC Input Wires
2. Circuit Breaker
3. PV Input (Polarity can't be reversed)
4. AC input

Solar System Connection



Back Panel



Specification

MODEL	PV11-1200 Plus	PV11-1800 Plus	PV11-2400 Plus
Nominal Battery System Voltage	12VDC	12VDC	24VDC
INVERTER OUTPUT	Simulated Sine-wave		
Rated Power	1200VA/720W	1800VA/1000W	2400VA/1440W
Waveform	Simulated Sine-wave		
Nominal Output Voltage RMS	230V		
Output Voltage Regulation	+10/-18%		
Output Frequency	50Hz/60Hz +/-1 Hz		
Inverter Efficiency(Peak)	>80%		
Line Mode Efficiency	>98%		
Typical Transfer Time	Typical 15~20ms 40ms max		
AC INPUT	230VAC		
Selectable Voltage Range	Narrow	170~280VAC	
	Wide	90~280VAC	
Frequency Range	40Hz-70Hz (Auto sensing)		
BATTERY	12VDC		24VDC
Nominal Input Voltage	12VDC		24VDC
Minimum Start Voltage	10.5VDC		21.0VDC
Low Battery Alarm	10.4VDC (min)		20.8VDC (min)
Low Battery Cutoff	9.9~12VDC (Can be set)		19.8~24VDC (Can be set)
High Voltage Cutoff	15.0VDC (max)		30.0VDC (max)
SOLAR CHARGER & AC CHARGER	50A (max)		
Maximum PV Charge Current	50A (max)		
Maximum PV Array Power	450W/750W		900W/1500W
PWM Range @ Operating Voltage	16~55VDC		
Maximum PV Array Open Circuit Voltage	55VDC		
Maximum Efficiency	>95%		
Standby Power Consumption	<2W		
AC Charger Voltage	14.5(max)		29(max)
AC Charging Current	10A / 20A (Can be set)		
Maximum Charge Current	10-50A (Can be set)		
BYPASS & PROTECTION	40Hz - 70Hz		
Nominal Input Frequency	40Hz - 70Hz		
Overload Protection (SMPS Load)	FUSE		
Output Short Circuit Protection	FUSE		
Bypass Fuse Rating	10A		
Max Bypass Current	10Amp		
MECHANICAL SPECIFICATIONS	150*315*100mm		
Machine Dimensions (W*H*D)	150*315*100mm		
Package Dimensions (W*H*D)	595*375*315mm		
Net Weight (kg)	2.8	4.0	
Gross Weight (kg)	3.5	4.7	
OTHER	0°C to 50°C		
Operation Temperature Range	0°C to 50°C		
Audible Noise	50dB MAX		
Display	LED+LCD		
Loading(20GP/40GP/40HQ)	1700pcs / 3400pcs / 4100pcs		

* Product specifications are subject to change without further notice.

Approximate Back-up Time Table

Power Rate(w)	backup time(H) @1*100Ah	backup time(H) @2*100Ah	backup time(H) @4*100Ah	backup time(H) @4*200Ah
720	1.3	2.6	5.2	10.4
1000	0.94	1.88	3.76	7.52
1440		1.4	2.8	5.6