



## PV1100 Plus Series High Frequency Off Grid 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

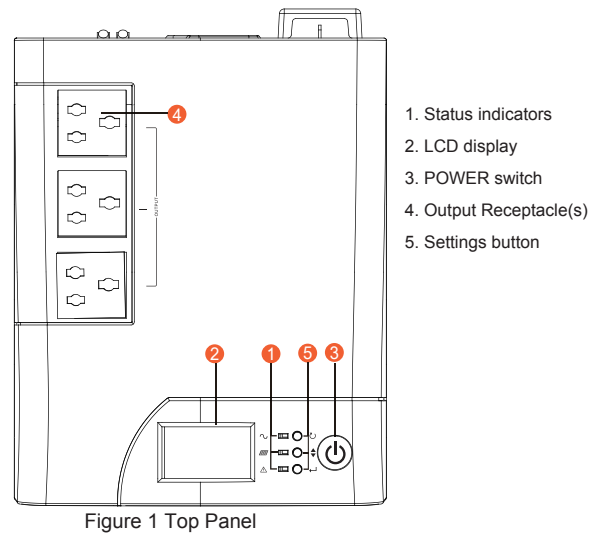


Figure 1 Top Panel

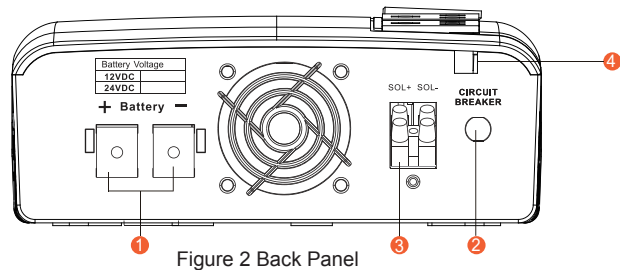
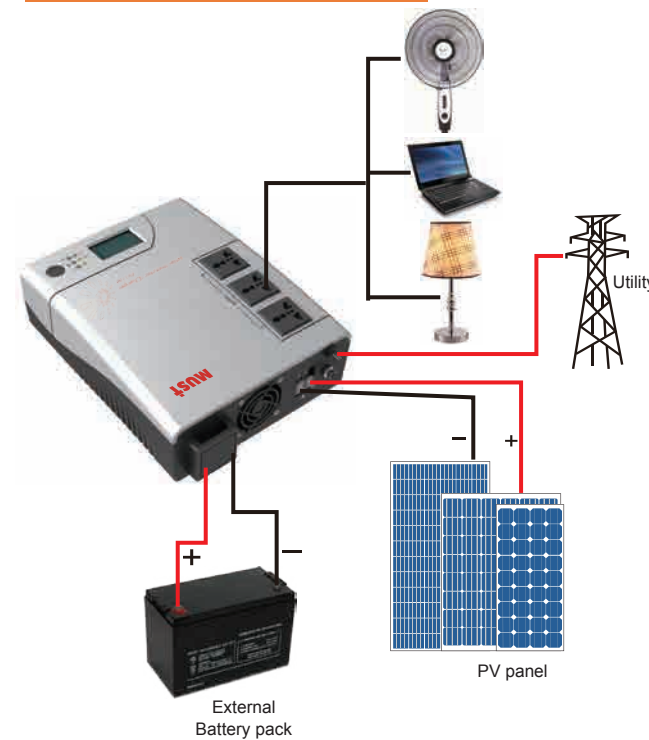


Figure 2 Back Panel

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	PV11-2400 Plus
Nominal Battery System Voltage		12VDC	24VDC
INVERTER OUTPUT	Rated Power	1200VA/720W	
	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	Voltage	230VAC	
	Selectable Voltage Range	Narrow	170~280VAC
		Wide	90~280VAC
Frequency Range	40Hz-70Hz (Auto sensing)		
BATTERY	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	Maximum PV Charge Current	50A (max)
Maximum PV Array Power		750W	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		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	Machine Dimensions (W*H*D)	231*290*92mm	
	Package Dimensions (W*H*D)	595*375*315mm	
	Net Weight (kg)	2.66	2.8
	Gross Weight (kg)	3.36	3.5
OTHER	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