


# High Frequency Simulated Sine Wave Solar Inverter

## PV1100 Plus Series (1.2KVA-2.4KVA)



### Features

- 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

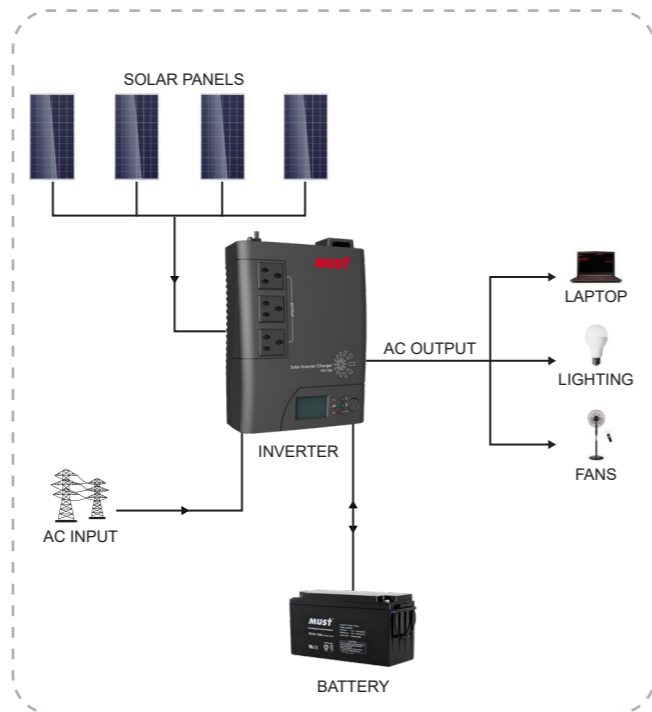
PV1100Plus is a cost effective, intelligent hybrid off grid solar inverter. The LCD display offers friendly user-configurable button adjustment such as battery charging current, AC/solar charger priority and DC priority. When battery voltage is low, it will automatically switch to AC grid to supply continuous power to the loads. It suitable for personal home use.

### Back panel printing description



1. Output Receptacle (s)
2. LCD display
3. Status indicators
4. Setting button
5. Power switch
6. External battery connectors
7. FAN
8. Solar panel terminal
9. Input circuit breaker (plastic case)
10. AC input

### Solar system connection



### Specification

MODEL		PV11-1200 Plus	PV11-1800 Plus	PV11-2400 Plus
Nominal Battery System Voltage		12VDC	12VDC	24VDC
INVERTER OUTPUT	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	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	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	14.4V(max)	28.8V(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 Dimension (W*H*D)	231*290*92mm		
	Package Dimension (W*H*D)	/		
	G.W (kg)	/		
	N.W (kg)	/		
OTHER	Operation Temperature Range	0°C to 50°C		
	Audible Noise	50dB MAX		
	Display	LED+LCD		

The technical specifications of this document are subject to change without any notice