High Frequency Off Grid Solar Inverter

PV1100 Plus Series

Features

- 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

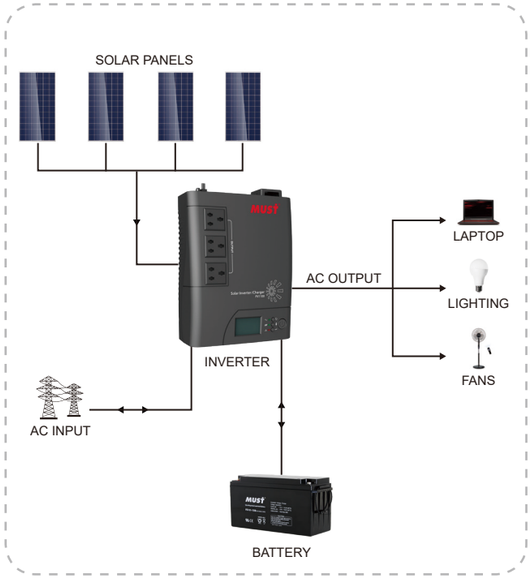
Introduction

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.

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



MUST®
Solar Power System

Specification

MODEL			PV11-1200 Plus	PV11-2400 Plus
Nominal Battery System Voltage			12VDC	24VDC
INVERTER OUTPUT	Rated Power		1200VA/720W	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		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.**

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