

High Frequency Off Grid Solar Inverter

PV1300 Series (1KVA-1.5KVA)



Features

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

Introduction

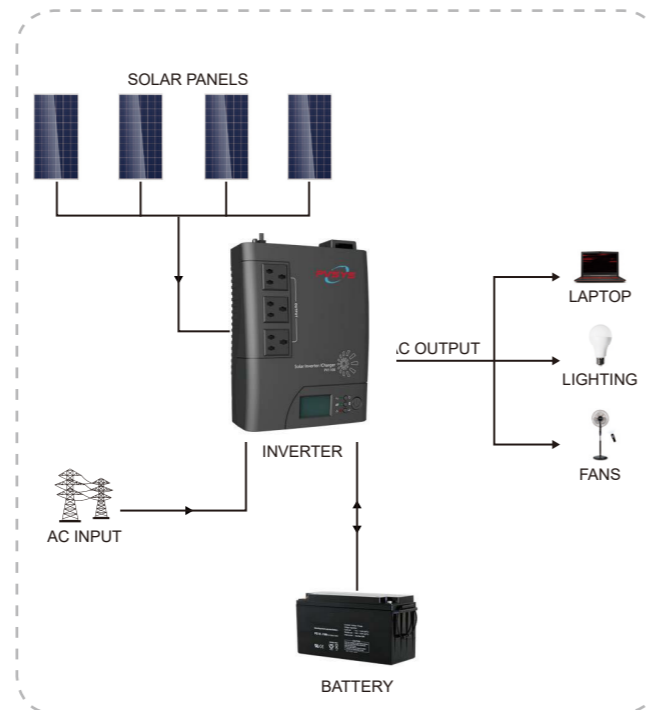
PV1300 is a cost effective, intelligent hybrid off grid solar inverter with power range 1000VA 1500VA. The LCD display offers friendly user-configurable button adjustment such as input voltage setting, AC/solar charger priority, mute setting. When battery voltage is low, it will automatically switch 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		PV13-1012	PV13-1512	PV13-1024	PV13-1524
Nominal Battery System Voltage		12VDC	12VDC	24VDC	24VDC
INVERTER OUTPUT	Rated Power	1000VA/600W	1500VA/1000W	1000VA/600W	1500VA/1000W
	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 6~8ms 10ms max			
	AC INPUT	Voltage	230VAC		
Selectable Voltage Range		Narrow	175~260VAC		
		Wide	140~270VAC		
Frequency Range	40Hz-70Hz (Auto sensing)				
BATTERY	Nominal Input Voltage	12VDC		24VDC	
	Minimum Start Voltage	10.5VDC		21.0VDC	
	Low Battery Alarm	10.5VDC		21VDC	
	Low Battery Cutoff	10.0VDC		20.0VDC	
	High Voltage Cutoff	15.5VDC (max)		31.0VDC (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			
BYPASS & PROTECTION	Nominal Input Frequency	40Hz – 70Hz			
	Overload Protection (SMPS Load)	FUSE			
	Output Short Circuit Protection	FUSE			
	Bypass Fuse Rating	10A			
MECHANICAL SPECIFICATIONS	Max Bypass Current	10Amp			
	Machine Dimensions (W*H*D)	231*290*92mm			
	Package Dimensions (W*H*D)	595*375*315mm			
	Net Weight (kg)	2.8		4	
OTHER	Gross Weight (kg)	3.5		4.7	
	Operation Temperature Range	0°C~50°C			
	Audible Noise	50dB MAX			
	Display	LED+LCD			
Loading(20GP/40GP/40HQ)	1700pcs / 4100pcs				

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