PV2000 Series

Low Frequency Solar Inverter

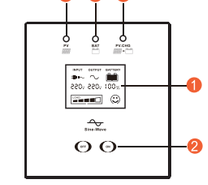
Feature:

- Pure sine wave solar inverter inbuilt with 30A solar charge controller
- Inbuilt with AVR function
- Solar priority, high efficient use of energy. Automatically charge from Grid power when insufficient PV power.
- Full protections for battery and inverter
- Suitable for home, Solar Charge Controller efficiency Max 90%

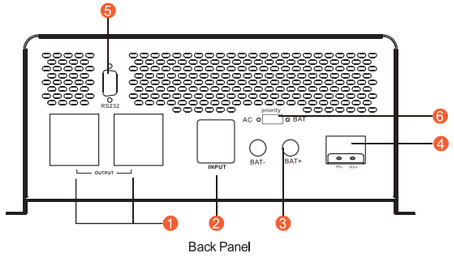
Introduction:

PV2000 Series is solar inverter with built-in 30A solar charge controller , pure sine wave output, with AVR function, mainly use for small home appliances.

LCD Display Information



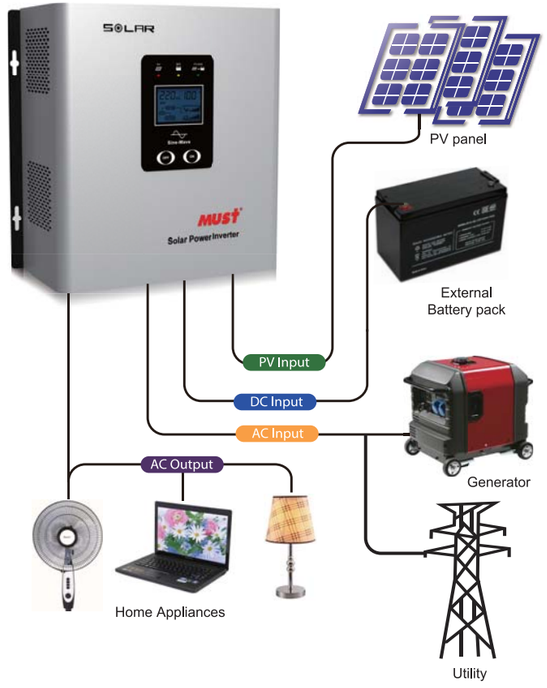
1. LCD display
2. POWER ON/OFF
3. LED1 PV Voltage Indicator
4. LED2 BAT Voltage Indicator
5. LED3 PV Charge Indicator



Back Panel

1. AC output
2. AC input
3. DC input connector(battery terminal)
4. PV-photovoltaic system
5. Communication interface, support with RS232
6. AC priority or battery priority selector

Solar System Connection



Back Panel

Specification

MODEL		PV20-500	PV20-1200	PV20-2000
Default Battery System Voltage		12VDC	12VDC	24VDC
INVERTER OUTPUT	Rated Power	500VA/300W	1200VA/700W	2000VA/1000W
	Surge Rating (20ms)	900W	2100W	3000W
	Waveform	Pure sine wave		
	Nominal Output Voltage RMS	220VAC(+/-10% RMS)		
	Output Frequency	50Hz/60Hz +/-1 Hz		
	Inverter Efficiency(Peak)	>80%		
	Line Mode Efficiency	>95%		
	Typical Transfer Time	Typical 2~6ms 10ms(max)		
AC INPUT	Voltage	220VAC		
	Selectable Voltage Range	140~275VAC(For Personal Computers)		
	Frequency Range	50Hz/60Hz (Auto sensing 47~65Hz)		
BATTERY	Minimum Start Voltage	10.5VDC		21.0VDC
	Low Battery Alarm	10.5VDC+/-0.3V		21.0VDC+/-0.6V
	Low Battery Cutoff	10.0VDC+/-0.3V		20.0VDC+/-0.6V
	High Voltage Alarm	15.5VDC+/-0.3V		31.0VDC+/-0.6V
	High Battery Voltage Recover	15.0VDC+/-0.3V		30.0VDC+/-0.6V
AC CHARGER	Charge Voltage	14.0±0.2V		28.0V±0.2V
	Overcharge Protection S.D.	15.5VDC		31.0VDC
	Maximum Charge Current	10A MAX		
BYPASS & PROTECTION	Input Voltage Waveform	Sine wave		
	Nominal Input Frequency	50Hz or 60Hz		
	Low Freq Trip	47+/-0.3Hz for 50Hz; 57+/-0.3Hz for 60Hz		
	High Freq Trip	55+/-0.3Hz for 50Hz; 65+/-0.3Hz for 60Hz		
	Overload Protection (SMPS Load)	Load>110% R Load fault after 60S		
	Output Short Circuit Protection	AC FUSE Protection		
	Bypass Fuse Rating	10A		
	Max Bypass Current	10Amp		
SOLAR CHARGER	Maximum PV Charge Current	30A		
	DC Voltage	12V/24V atuo work		
	Maximum PV Array Power	450W		900W
	PWM Range @ Operating Voltage	16~55VDC		
	Maximum PV Array Open Circuit Voltage	55VDC		
	Maximum Efficiency	>95%		
	Standby Power Consumption	<2W		
MECHANICAL SPECIFICATIONS	Mounting	Wall mount		
	Dimensions (W*H*D)	301*328*132mm		
	Net Weight (Solar CHG) kg	6.86KG	8.92KG	10.25KG
	Shipping Dimensions(W*H*D)	325*391*187mm		
	Shipping Weight (Solar CHG) kg	7.54KG	9.6KG	10.93KG
OTHER	Operating Environment	0°C~40°C 0~90% relative humidity (non-condensing)		
	Noise Level	Less than 60dB		
	Display	LED+LCD		
	Loading(20GP/40GP/40HQ)	1100pcs / 2200pcs / 2700pcs		

*** 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
300	3.5	7	14	28
700	1.5	3	6	12
1000	1	2.1	4.2	8.4