



## PV2000 Series Low Frequency Solar Inverter

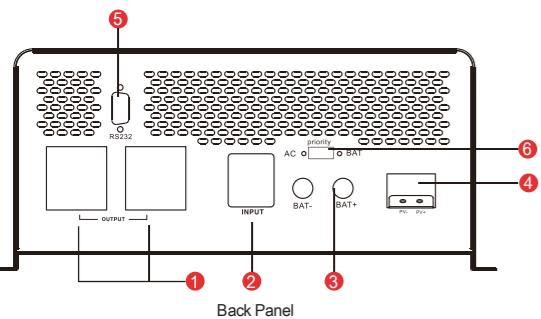
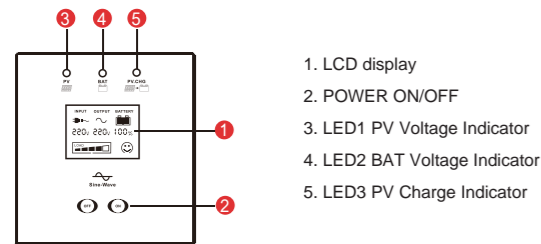
### Feature:

- Pure sine wave solar inverter inbuilt with 30A or 50A PWM solar charge controller
- Built-in AVR function
- Solar priority, high efficiently 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

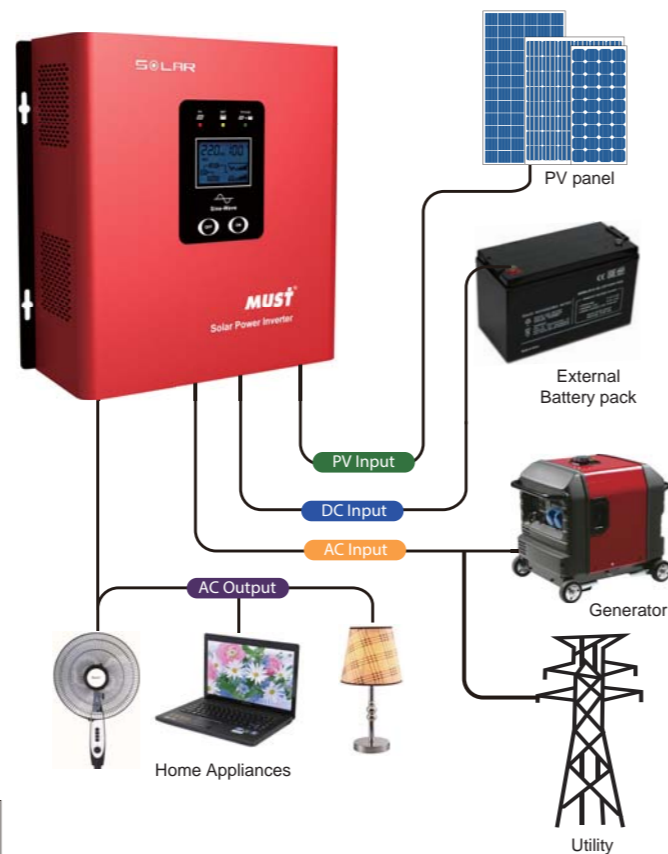


1. LCD display
  2. POWER ON/OFF
  3. LED1 PV Voltage Indicator
  4. LED2 BAT Voltage Indicator
  5. LED3 PV Charge Indicator
1. AC output
  2. AC input
  3. DC input connector(battery terminal)
  4. PV-photovoltaic system
  5. Communication interface, support with RS232 (Optional)
  6. AC priority or battery priority switch

### Back Panel



### Solar System Connection



### Specification

MODEL		PV20-500	PV20-1200	PV20-2000	
Default Battery System Voltage		12VDC	12VDC	24VDC	
INVERTER OUTPUT	Rated Power	500VA/300W	1200VA/700W	2000VA/1050W	
	Surge Rating (20ms)	900W	2100W	3600W	
	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%			
AC INPUT	Typical Transfer Time	Typical 2~6ms 10ms(max)			
	Voltage	220VAC			
	Selectable Voltage Range	140~275VAC(For Personal Computers)			
BATTERY	Frequency Range	50Hz/60Hz (Auto sensing 47~65Hz)			
	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	20A 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 or 50A		
		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
1200	1	2.1	4.2	8.4