



Low Frequency Off Grid Solar Inverter

PV3000 MPPT Series (1-6KW)

This is a multi-function inverter, combining functions of inverter and mppt solar charge controller, solar charger and battery charger to offer uninterruptible power support with portable size. The comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.



Home Solar Power Inverter
1-6KW Off-grid solar inverter for Home Power System.

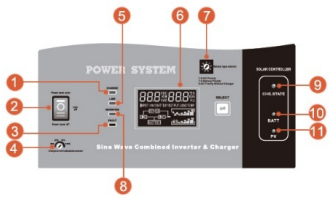


MPPT Solar Charge Controller
Inbuilt with 30A or 60A MPPT solar charge controller.



LCD+LED
With LCD+LED display.

LCD/LED Display Information



1. AC charge on
2. Switch

Power saver auto:	Power on with saver mode(power saver ≤ 25W)
Unit Off:	Power totally off(If there is AC power,inverter have charger function)
Power saver off:	Power on without saver mode
3. Check inverter
4. Charge current adjustable:25%,50%,75%,100%. (Optional)
5. AC power on
6. LCD display
7. Battery type selector
8. Inverter mode
9. Charging
10. Battery voltage normal
11. PV voltage normal

Figure 1 Back Panel Information

12. Remote port
13. RS232 communication port
14. BAT "-"
15. BAT "+"



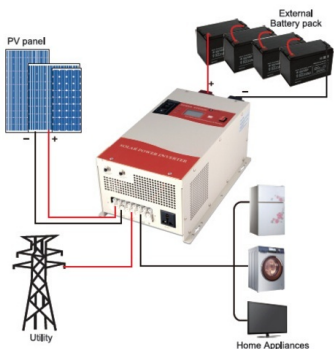
Figure 2 Back Panel Information

16. AC input/Bypass breaker
17. AC output breaker
18. FAN
19. AC output
20. AC input
21. PV input
22. GND



Solar System Connection

- ✓ Inbuilt MPPT solar charge controller 30A/60A;
- ✓ Battery priority function;
- ✓ 12V/24V/48V input optional;
- ✓ Max. AC charge current 70A;
- ✓ Inbuilt pure copper transformer;
- ✓ Pure sine wave output;
- ✓ LCD status display;
- ✓ 50Hz/60Hz automatic;
- ✓ RS232 with free CD.



SPECIFICATION

MODEL		PV30-1KW		PV30-1.5KW		PV30-2KW		PV30-3KW		PV30-4KW		PV30-5KW		PV30-6KW					
Default Battery System Voltage (DC)		12V	24V	12V	24V	12V	24V	12V	24V	24/48V	24/48V	24/48V	24/48V	24/48V	24/48V				
INVERTER OUTPUT	Rated Power	1KW		1.5KW		2KW		3KW		4KW		5KW		6KW					
	Surge Rating (20ms)	3KW		4.5KW		6KW		9KW		12KW		15KW		18KW					
	Capable Of Starting Electric Motor	1HP		1HP		1HP		2HP		2HP		3HP		3HP					
	Waveform	Pure sine wave/ same as input (bypass mode)								Pure sine wave/ same as input (bypass mode)									
	Nominal Output Voltage RMS	100V/110V/120VAC 220V/230V/240VAC(+/-10% RMS)								100V/110V/120VAC		220V/230V/240VAC							
	Output Frequency	50Hz/60Hz +/-0.3 Hz								50Hz/60Hz +/-0.3 Hz									
	Inverter Efficiency(Peak)	>88%								>88%									
	Line Mode Efficiency	>95%								>95%									
	Power Factor	0.8								1.0									
Typical Transfer Time	10ms(max)								10ms(max)										
AC INPUT	Voltage	100V/110V/120V 220V/230V/240V										220V/230V/240V							
	Selectable Voltage Range	96~132VAC 155~280VAC (For Personal Computers)								96~132VAC/155~280VAC (For Personal Computers)									
	Frequency Range	50Hz/60Hz (Auto sensing) 40-80Hz								50Hz/60Hz (Auto sensing) 40-80Hz									
BATTERY	Minimum Start Voltage	10.0VDC /10.5VDC for12VDC mode (*2 for 24VDC,)								20.0VDC~21.0VDC /40.0VDC~42.0VDC									
	Low Battery Alarm	10.5VDC +/-0.3V for12VDC mode (*2 for 24VDC,)								21.0VDC+/-0.6V /42.0VDC+/-1.2V									
	Low Battery Cutoff	10.0VDC +/-0.3V for12VDC mode (*2 for 24VDC,)								20.0VDC+/-0.6V /40.0VDC+/-1.2V									
	High Voltage Alarm	16.0VDC +/-0.3V for12VDC mode (*2 for 24VDC,)								32.0VDC+/-0.6V /64.0VDC+/-1.2V									
	High Battery Voltage Recover	15.5VDC +/-0.3V for12VDC mode (*2 for 24VDC,)								31.0VDC+/-0.6V / 62.0VDC+/-1.2V									
	Idle Consumption-Search Mode	<25W when power saver on								<50W when power saver on									
AC CHARGER	Output Voltage	Depends on battery type								Depends on battery type									
	Charger AC Input Breaker Rating	10A		30A		30A		30A		40A									
	Overcharge Protection S.D.	15.7VDC for 12VDC mode (*2 for 24VDC,)								31.4VDC/62.8VDC									
	Maximum Charge Current	35A	20A	45A	25A	65A	35A	75A	45A	65A	35A	70A	40A	75A	50A				
BYPASS & PROTECTION	Input Voltage Waveform	Sine wave (grid or generator)								Sine wave (grid or generator)									
	Nominal Input Frequency	50Hz or 60Hz								50Hz or 60Hz									
	Overload Protection (SMPS Load)	Circuit breaker								Circuit breaker									
	Output Short Circuit Protection	Circuit breaker								Circuit breaker									
	Bypass Breaker Rating	10A		15A		30A		30A		40A									
	Max Bypass Current	30Amp								40Amp									
SOLAR CHARGER	Maximum PV Array Power	600W	1200W	600W	1200W	600W	1200W	600W	1200W	1600W	3200W	1600W	3200W	1600W	3200W				
	Maximum PV Charge Current	40A								60A									
	DC Voltage	12V/24V atuo work								24V/48V atuo work									
	MPPT Range @ Operating Voltage	16~100VDC								32~145VDC @ 24V / 64~145VDC @ 48V									
	Maximum PV Array Open Circuit Voltage	100VDC								145VDC									
	Maximum Efficiency	>90%								>98%									
	Standby Power Consumption	<2W								<2W									
MECHANICAL SPECIFICATIONS	Mounting	Wall mount								Wall mount									
	Dimensions (W*H*D)	460*277*192mm								597x277x198mm									
	Net Weight (Solar CHG) kg	18.3		22		23.5		23		28		27		39.6		48.6		48.6	
	Shipping Dimensions(W*H*D)	554*360*300mm								743*372*312mm									
	Shipping Weight (Solar CHG) kg	21.9		24.8		26.5		25.6		31		30		43.3		53		53	
OTHER	Operation Temperature Range	0°C to 40°C																	
	Storage Temperature	-15°C to 60°C																	
	Audible Noise	60dB MAX																	
	Display	LED+LCD																	
	Loading(20GP/40GP/40HQ)	460pcs / 920pcs / 1060pcs								320pcs / 640pcs / 750pcs									