



# PV1800VPM SEREIS (1-5KW)

Pure sine wave high frequency solar inverter with MPPT inside





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(4-5KW)



(1-3KW)

### INTRODUCTION

This is a multi-function inverter/charger, combining functions of inverter, MPPT50A/80A solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, acceptable input voltage based on different applications.

### FEATURES

- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built in MPPT50A/80A solar charge controller
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB, RS485 monitoring function with free CD
- WIFI remote monitoring (optional)
- Compatible to generator
- 3KW-5KW support parallel function(optional)



Rated power  
1kw-5kw



Battery Voltage  
12VDC/24DC/48VDC



MAX charging current  
140A



WIFI remote  
monitoring



Multi Protection



High frequency above  
93% high efficiency



Wide AC input  
90-280V



Lead-acid/Lithium Battery  
Optional



## WIFI COMMUNICATION

You can download this app on your cellphone and monitor the whole system, you will know how much electricity the system generate and sell to utility.

## REMOTE CONTROL

Control with a wired remote control panel.

The remote control is particularly suitable when the power-source manager is installed behind a casing or in a place that prevents you from accessing the device. The remote control allows you to switch the power saving mode on/off easily. Please note that remote control panel is not optional, not included in inverter package.

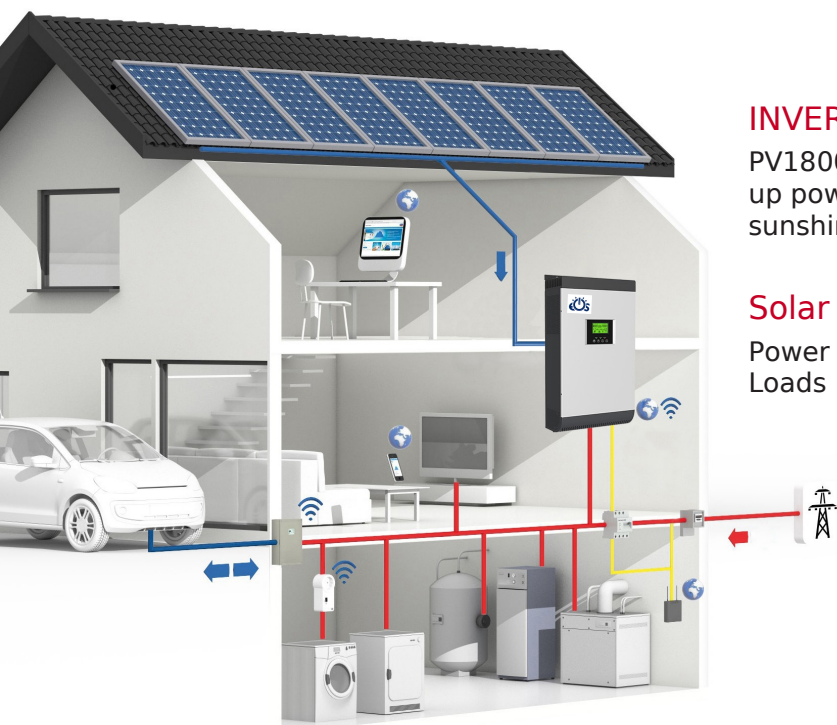


## INVERTER SYSTEM CONNECTION

PV1800 VPM inverter system, it can work with battery as back up power for normal home power demands, which take use of sunshine freely and save lots electricity bill for you.

### Solar Inverter System Connection:

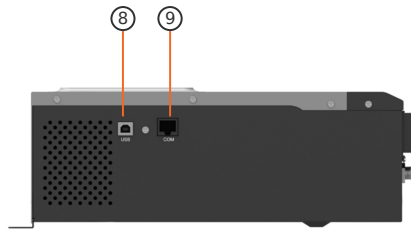
Power Inverter + Battery + Solar Panels + Grid + Application Loads



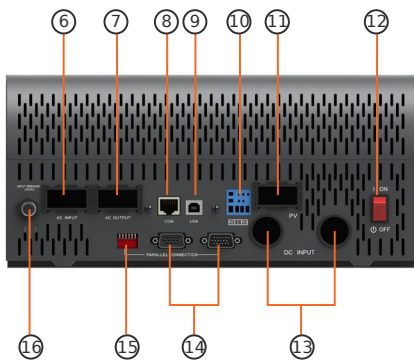


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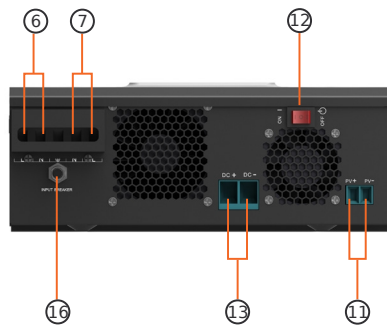
Pure sine wave high frequency solar inverter with MPPT inside



1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons
6. AC Input
7. AC Output
8. RS-485 Communication port
9. USB
10. Dry Contact
11. PV Input
12. Power On/Off Switch
13. Battery Input
14. Parallel communication port (only for parallel model)
15. Parallel switch
16. Circuit breaker



(4-5KW)



(1-3KW)

MODEL		PV18-1012 VPM	PV18-2024 VPM	PV18-3024 VPM	PV18-3048 VPM	PV18-4048 VPM	PV18-5048 VPM	
Default Battery System Voltage		12VDC	24VDC		48VDC			
INVERTER OUTPUT	Rated Power	1000VA / 1000W	2000VA / 2000W	3000VA / 3000W	3000VA / 3000W	4000VA / 4000W	5000VA / 5000W	
	Surge Power	2000VA	4000VA	6000VA	6000VA	8000VA	10000VA	
	Waveform	Pure sine wave						
	AC Voltage Regulation (Batt.Mode)	220VAC~240VAC(Setting)						
	Inverter Efficiency(Peak)	90%~93%						
Transfer Time	10ms(For Personal Computers) , 20ms(For Home Appliances)							
AC INPUT	Voltage	230VAC						
	Selectable Voltage Range	170~280VAC(For Personal Computers), 90~280VAC(For Home Appliances), 184~253VAC(VDE)						
	Frequency Range	50Hz/60Hz (Auto sensing)						
BATTERY	Normal voltage	12VDC	24VDC		48VDC			
	Floating Charge Voltage	13.7VDC	27.4VDC		54.8VDC			
	Overcharge Protection	15VDC	30VDC		60VDC			
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	60VDC	100VDC		145VDC			
	PV Array MPPT Voltage Range	15~60VDC	30~80VDC		64~130VDC			
	Standby Power Consumption	2W						
	Maximum PV Array Power	625W	1250W		4000W			
	Maximum Solar Charge Current	50A				80A		
	Maximum Efficiency	98%						
MECHANICAL SPECIFICATIONS	Maximum AC Charge Current	10A or 20A	20A or 30A		60A			
	Maximum Charge Current	70A	80A		140A			
	Machine Dimensions (W*H*D)(mm)	t.b.d	272*355*100		297.5*468*125			
	Package Dimensions (W*H*D)(mm)	t.b.d	485*393*251		638*395*241			
OTHER	Net Weight(kg)	t.b.d	7.4		14			
	Gross Weight(kg)	t.b.d	9.5		16.4			
	Humidity	5% to 95% Relativ Humidity (Non-condensing)						
OTHER	Operating Temperature	0°C -55°C						
	Storage Temperature	-15°C -60°C						