



# PV1800 VHM SERIES (2KW-5.5KW)

High Frequency Off Grid Solar Inverter

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# MUST®

## PV1800 VHM SERIES (2KW-5.5KW)

High Frequency Off Grid Solar Inverter



(2KW-3KW)



(3KW-5.5KW)

### INTRODUCTION

PV1800 VHM is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in portable size. Its 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.

### FEATURES

- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Built-in 80A MPPT solar charger
- Battery equalization function to optimize battery performance and extend lifecycle
- Built-in anti-dusk kit for harsh environment



Rated power  
2kw-5.5kw



Battery Voltage  
24VDC/48VDC



Auto Frequency Sensing  
50Hz/60Hz



Multi Protection



Battery smart  
charge design



Lead-acid/Lithium Battery  
Optional



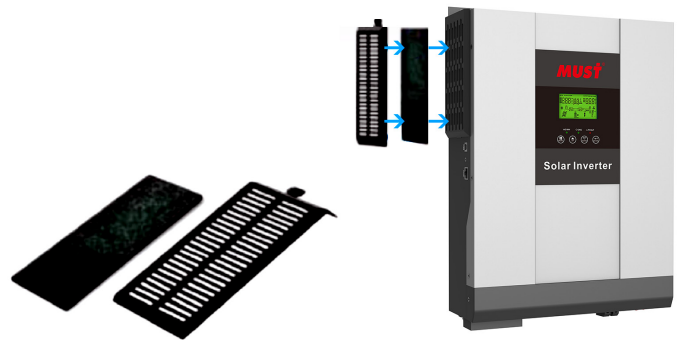
## WIFI COMMUNICATION

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.



## ANTI-DUST KIT

After installing this anti-dust kit, inverter will automatically detect this kit and activate internal thermal sensor to adjust internal temperature. By virtue of the dustproof design, it dramatically increases product reliability in harsh environment.

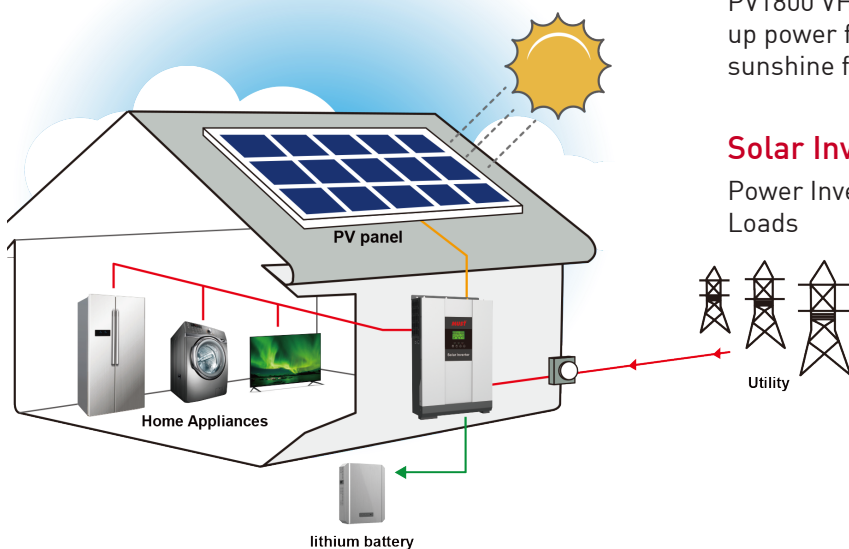


## INVERTER SYSTEM CONNECTION

PV1800 VHM 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.

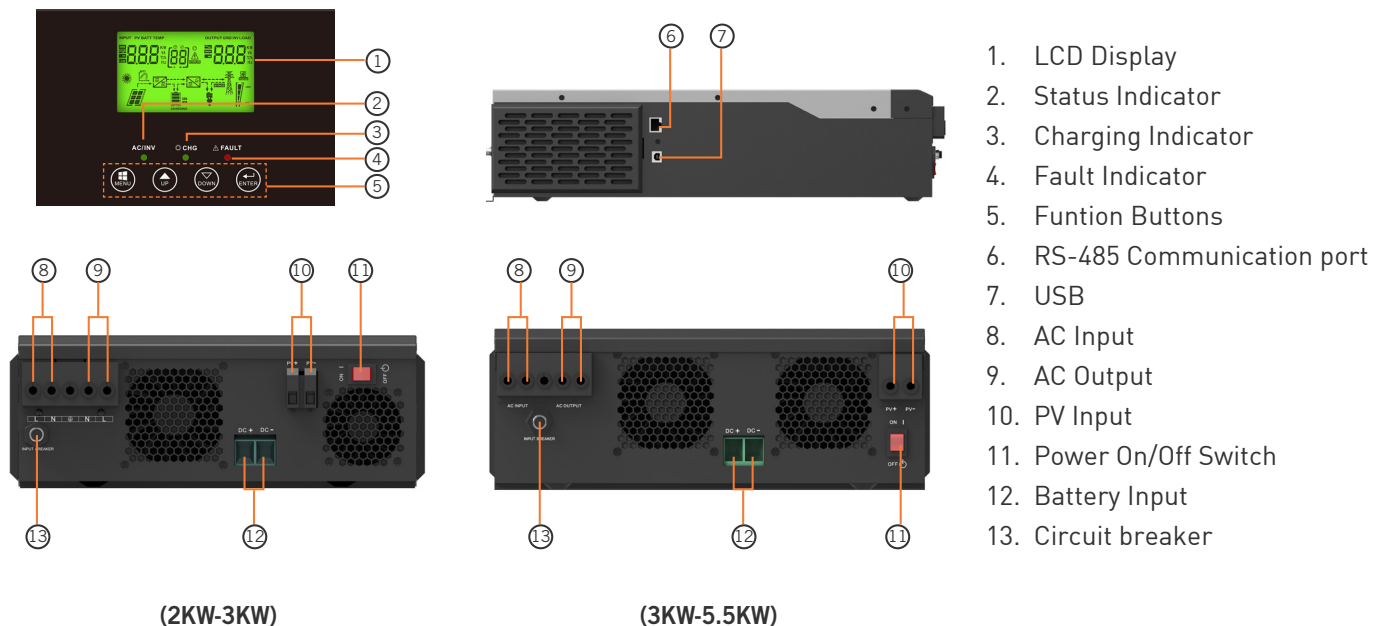
### Solar Inverter System Connection:

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



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1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons
6. RS-485 Communication port
7. USB
8. AC Input
9. AC Output
10. PV Input
11. Power On/Off Switch
12. Battery Input
13. Circuit breaker

(2KW-3KW)

(3KW-5.5KW)

MODEL		PV18-2024 VHM	PV18-3024 VHM	PV18-3048 VHM	PV18-4048 VHM	PV18-5048 VHM	PV18-5548 VHM
Nominal Battery System Voltage		24VDC			48VDC		
INVERTER OUTPUT	Rated Power	2000W	3000W	3000W	4000W	5000W	5500W
	Surge Power	4000W	6000W	6000W	8000W	10000W	11000W
	Waveform	Pure Sine Wave					
	AC Voltage Regulation (Batt.Mode)	(220VAC~240VAC)±5%					
	Inverter Efficiency(Peak)	93%					
	Transfer Time	10ms (For Personal Computers) 20ms (For Home Appliance)					
AC INPUT	Voltage	230VAC					
	Selectable Voltage Range	170~280VAC(For personal computer) \ 90~280VAC(For Home Appliance) \ 184~253VAC(VDE4105)					
	Frequency Range	50Hz/60Hz(Auto sensing)					
BATTERY	Normal Voltage	24VDC			48VDC		
	Floating Charge Voltage	27VDC			54VDC		
	Overcharge Protection	31VDC			60VDC		
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	145VDC					
	PV Array MPPT Voltage Range	30~130VDC			64~130VDC		
	Standby Power Consumption	2W					
	PV Input Power	1440W/1920W			2880W/3840W		
	Maximum Solar Charge Current	60A/80A					
	Maximum Efficiency	98%					
	Maximum AC Charge Current	20A/30A			60A		
	Maximum Charge Current	80A			120A/140A		
MECHANICAL SPECIFICATIONS	Machine Dimensions(W*H*D)(mm)	272*355*100			297.5*468*125		
	Package Dimensions(W*H*D)(mm)	540*395*241			638*395*241		
	Net Weight(kg)	10	11	13.3			
	Gross Weight(kg)	11.7	12	16.4			
OTHER	Humidity	5% to 95% Relatly Humidity (Non-condensing)					
	Operating Temperature	0°C ~55°C					
	Storage Temperature	-15°C ~60°C					