



# PV1800 VPK SERIES (1KW-5KW)

High Frequency Solar Inverter

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# MUST®

## PV1800 VPK SERIES (1KW-5KW)

High Frequency Solar Inverter



(4-5KVA)



(2-3KVA)



(2-3KVA)

### INTRODUCTION

PV1800 VPK is a multi-function inverter/charger, combining functions of inverter, PWM solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable 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 output
- Smart LCD setting(Working modes, Charge Current, Charge Voltage, etc.)
- Built-in PWM 50A/60A solar charge controller
- New SUB working mode(Solar-Utility-Battery working mode) for 4K-5K series
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and deep discharge protection
- Parallel operation with up to 3 units (Available for 4KW/5KW only)
- Cold start function
- Support USB, RS485 monitoring function with free CD
- WIFI remote monitoring (optional)
- Compatible to generator



Rated power  
1KW-5KW



Battery Voltage  
12VDC/24VDC/48VDC



MAX charging current  
120A



WIFI remote  
monitoring



Multi Protection



High frequency above  
93% high efficiency



Wide AC input  
90-280V

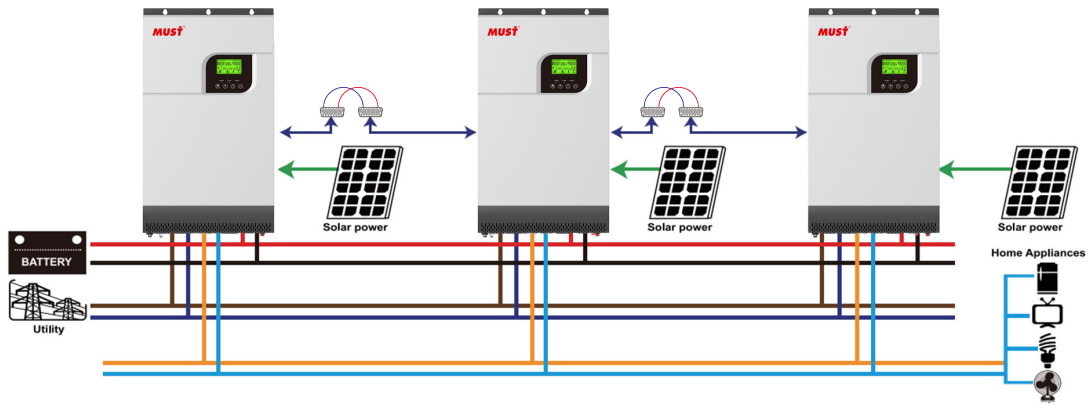


Lead-acid/Lithium Battery  
Optional



### 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.



### ABILITY FOR PARALLEL OPERATION

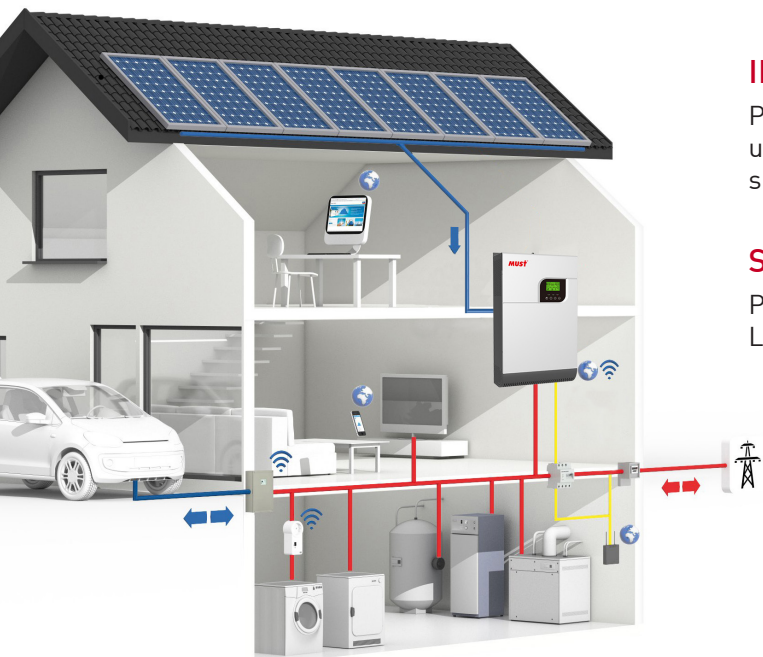
The inverter is able to run in parallel operation mode to increase the capacity and reliability of the solar system. For higher reliability, parallel kits are adopted for inverters to communicate with each other. Up to 3 inverters can be installed together. Either single-phase or three phases parallel operation is available.

### INVERTER SYSTEM CONNECTION

PV1800 VPK 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.

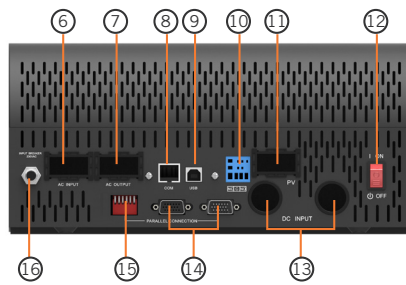
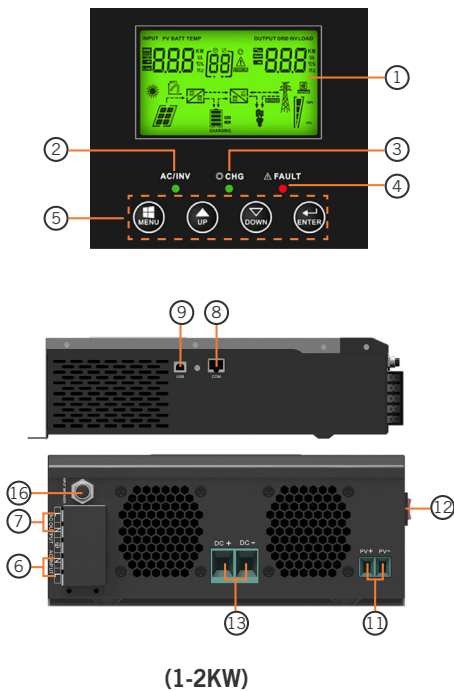
### Solar Inverter System Connection:

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

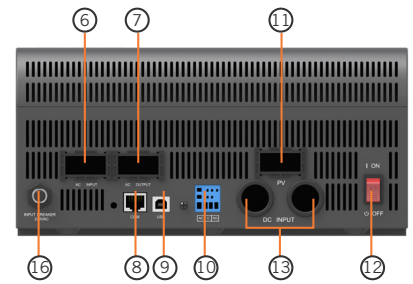


## PV1800 VPK SERIES (1KW-5KW)

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(4KW-5KW)(only for parallel model)



(3KW)

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
15. Parallel switch
16. Circuit breaker

MODEL		PV18-1012 VPK	PV18-2024 VPK	PV18-3024 VPK	PV18-4048 VPK	PV18-5048 VPK
Nominal Battery System Voltage		12VDC	24VDC		48VDC	
INVERTER OUTPUT	Rated Power	1000W	2000W	3000W	4000W	5000W
	Surge Power	2000W	4000W	6000W	8000W	10000W
	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 appliances) \ 184~253VAC(VE4105)				
	Frequency Range	50Hz/60Hz(Auto sensing)				
BATTERY	Normal voltage	12VDC	24VDC		48VDC	
	Floating Charge Voltage	13.5VDC	27VDC		54VDC	
	Overcharge Protection	15.5VDC	31VDC		60VDC	
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	55VDC	80VDC		105VDC	
	Standby Power Consumption	2W	2W		2W	
	(PWM)Maximum Solar Charge Current	50A	50A		60A	
	Maximum AC Charge Current	10A or 20A	20A or 30A		60A	
	Maximum ChargeCurrent	70A	80A		120A	
MECHANICAL SPECIFICATIONS	Machine Dimensions (W*H*D)(mm)	225*355*92	272*355*100		297.5*468*125	
	Package Dimensions (W*H*D)(mm)	405*373*205	465*373*231		618*415*261	
	Net Weight(kg)	4.0	7.8		12	
	Gross Weight(kg)	6.0	10.3		13.5	
OTHER	Humidity	5% to 95% Relative humidity (Non-condensing)				
	Operating Temperature	0°C ~55°C				
	Storage Temperature	-15°C ~60°C				