

# High frequency solar inverter

## PV1800 VPM Series (1-5KW)



### Features

- Rated power: 1-5KW
- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built in MPPT 60A/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
- WIFI remote monitoring (optional)
- Compatible to generator
- Support parallel operation up to 3 units (available for 3KW-5KW 48V)

### Introduction

This is a multi-function inverter/charger, combining functions of inverter, MPPT 60A/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, and acceptable input voltage based on different applications.

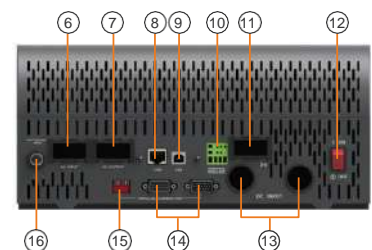
### Back panel printing description



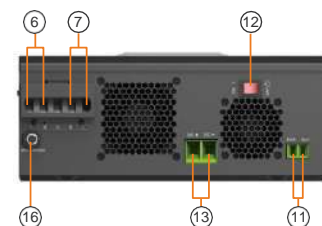
1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons

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
17. USB WiFi

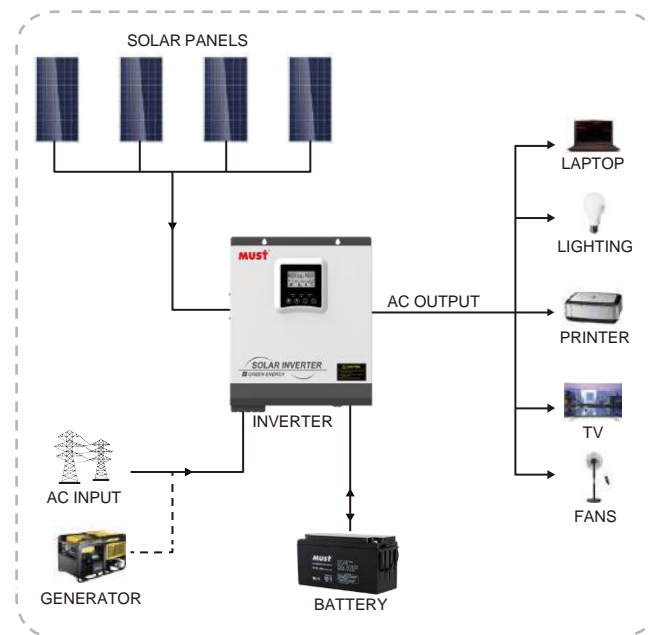


(4-5KW)



(2-3KW)

### Solar system connection



### Specification

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(UPS \ VDE4105) \ 20ms(APL)					
AC INPUT	Voltage	230VAC					
	Selectable Voltage Range	170~280VAC(UPS) \ 90~280VAC(APL) \ 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	75VDC	145VDC	145VDC			
	PV Array MPPT Voltage Range	15~75VDC	30~120VDC	60~130VDC			
	Standby Power Consumption	2W					
	Maximum PV Array Power	625W	1500W	4000W			
	Maximum Solar Charge Current	60A			80A		
	Maximum Efficiency	98%					
	Maximum AC Charge Current	10A or 20A	20A or 30A	60A			
	Maximum Charge Current	70A	80A	140A			
MECHANICAL SPECIFICATIONS	Machine Dimensions (W*H*D)(mm)	225*355*92	272*355*100	297.5*468*125			
	Package Dimensions (W*H*D)(mm)	410*300*78	485*393*251	638*395*241			
	Net Weight(kg)	5	7.4	14			
	Gross Weight(kg)	5.5	9.5	16.4			
OTHER	Humidity	5% to 95% Relativ Humidity (Non-condensing)					
	Operating Temperature	0°C~50°C					
	Storage Temperature	-15°C -60°C					