

High frequency solar inverter with MPPT inside

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 with free CD
- 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



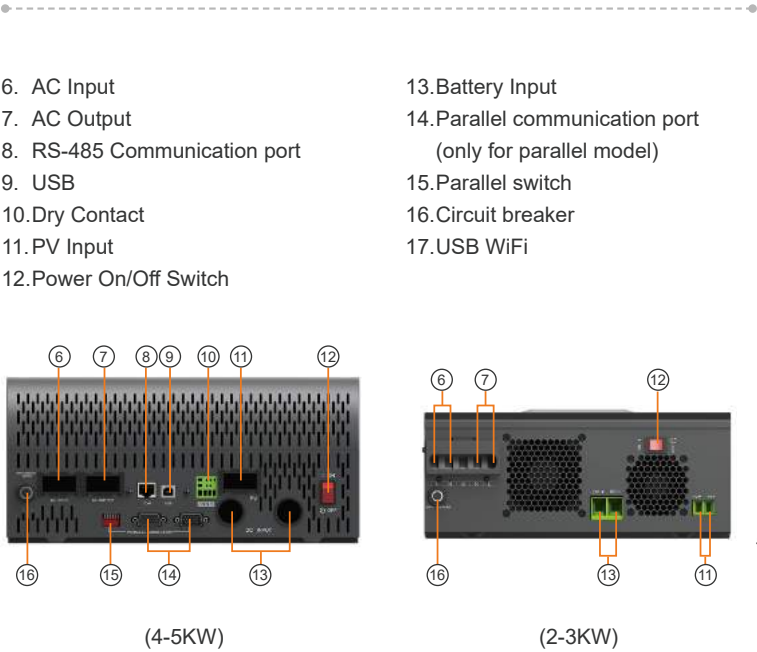
1. LCD Display

2. Status Indicator

3. Charging Indicator

4. Fault Indicator

5. Funtion 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

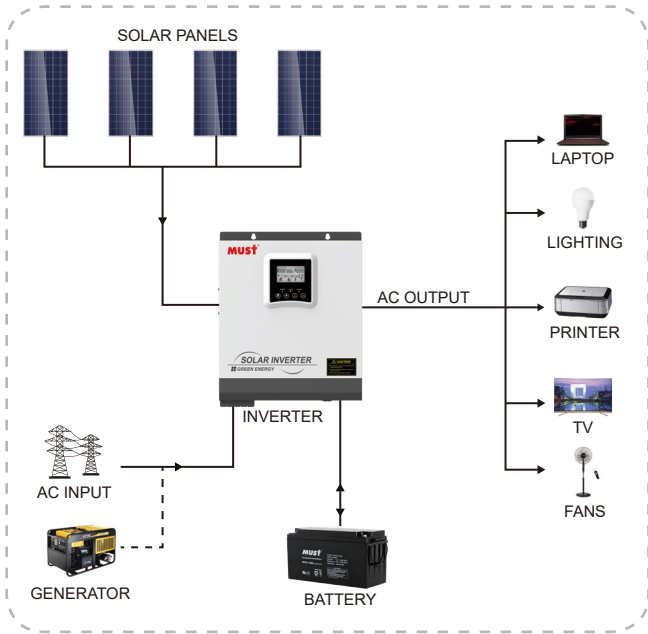
14. Parallel communication port (only for parallel model)

15. Parallel switch

16. Circuit breaker

17. USB WiFi

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	60VDC	145VDC		145VDC		
	PV Array MPPT Voltage Range	15~60VDC	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~55°C					
	Storage Temperature	-15°C -60°C					