

High frequency solar inverter

PV1800 VPM Series (1KW-5KW)



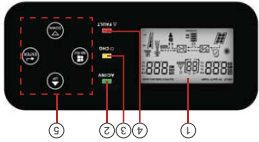
- Features

 - 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)

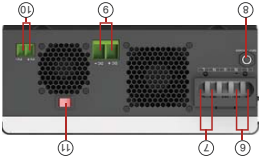
Introduction

This is a multi-function inverter/charger, combining functions of inverter, MPPT 60A/80A solar charger and battery charger to offer uninterrupted 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

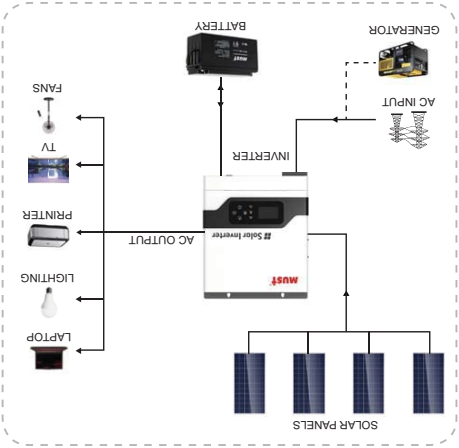


1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons



6. AC input
7. AC output
8. Circuit breaker
9. Battery input
10. PV input
11. Power on/off switch
12. RS-485 Communication port
13. USB
14. Dry contact
15. USB wifi

[PV1800 VPM 2-3K]



Solar system connection

MODEL		Default Battery System Voltage					12VDC	24VDC		48VDC			
		PV18-1012 VPM	PV18-2024 VPM	PV18-3024 VPM	PV18-3048 VPM	PV18-4048 VPM	PV18-5048 VPM						
Rated Power		1000VA / 1000W		2000VA / 2000W		3000VA / 3000W	3000VA / 3000W		4000VA / 4000W		5000VA / 5000W		
Surge Power		2000VA		4000VA	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)											
Voltage		230VAC											
Selectable Voltage Range		170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)											
Frequency Range		50Hz / 60Hz (Auto sensing)											
INVERTER OUTPUT		Normal voltage		12VDC	24VDC		48VDC						
		Floating Charge Voltage		13.7VDC	27.4VDC		54.8VDC						
		Overcharge Protection		15VDC	30VDC		60VDC						
BATTERY		Maximum PV Array Open Circuit Voltage		105VDC	145VDC		145VDC						
		PV Array MPPT Voltage Range		15~105VDC	30~120VDC		60~130VDC						
		Standby Power Consumption		2W									
		Maximum PV Array Power		720W	1500W		4000W						
		Maximum Solar Charge Current		60A									
SOLAR CHARGER & AC		Maximum Efficiency		98%									
		Maximum A/C Charge Current		10A or 20A	20A or 30A		60A						
		Maximum Charge Current		70A	80A		140A						
		Machine Dimensions (W*H*D)(mm)		224*337*98	290*342*125		297.5*468*125						
		Package Dimensions (W*H*D)(mm)		299*392*184	408*412*240		638*395*241						
MECHANICAL SPECIFICATIONS		Net Weight(kg)		5	7.4		12						
		Gross Weight(kg)		5.5	9.5		13.5						
		Humidity		5% to 95% Relativ Humidity (Non-condensing)									
Operating Temperature		0°C~50°C											
Storage Temperature		-15°C ~60°C											
OTHER													

Specification