

High Frequency Off Grid Solar Inverter

PV1800 VHM Series (3KW-5.5KW/250V)



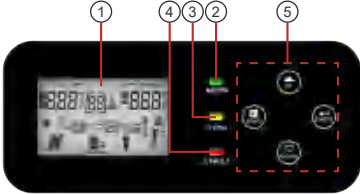
Features

- Rated power : 3KW -5.5KW
- Pure sine wave solar inverter
- Max PV Array Open Circuit Voltage: 250V
- Output power factor 1
- Built-in 80A MPPT solar charger
- Support parallel operation up to 3 units
- Communication CAN/485 port for BMS (optional)
- PV lithium battery activation function
- WIFI remote monitoring (optional)
- Compatible to generator

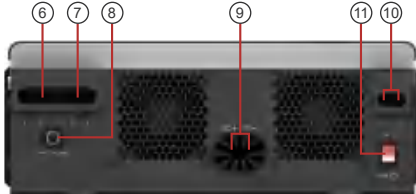
Introduction

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.

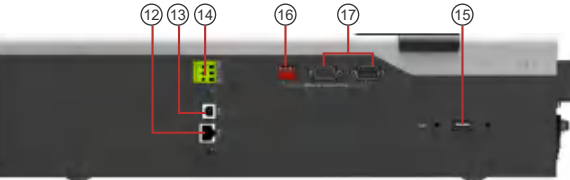
Back panel printing description



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
16. Parallel switch (only for parallel model)
17. Parallel communication port (only for parallel model)

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Specification

MODEL		PV18-3048 VHM	PV18-4048 VHM	PV18-5048 VHM	PV18-5548 VHM
Nominal Battery System Voltage		48VDC			
INVERTER OUTPUT	Rated Power	3000W	4000W	5000W	5500W
	Surge Power	6000W	8000W	10000W	11000W
	Waveform	Pure Sine Wave			
	AC Voltage Regulation (Batt.Mode)	(220VAC~240VAC)±5%			
	Inverter Efficiency(Peak)	93%			
	Transfer Time	10ms (UPS / VDE4105) 20ms (APL)			
AC INPUT	Voltage	230VAC			
	Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE4105)			
	Frequency Range	50Hz / 60Hz(Auto sensing)			
BATTERY	Normal Voltage	48VDC			
	Floating Charge Voltage	54.8VDC			
	Overcharge Protection	60VDC			
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	250VDC			
	PV Array MPPT Voltage Range	60~200VDC			
	Standby Power Consumption	2W			
	PV Input Power (STC)	4500W			
	Maximum Solar Charge Current	80A			
	Maximum Efficiency	98%			
	Maximum AC Charge Current	60A			
MECHANICAL SPECIFICATIONS	Maximum Charge Current	140A			
	Machine Dimensions(W*H*D)	329*485*134mm			
	Package Dimensions(W*H*D)	425*575*229mm			
	Net Weight(kg)	12			
OTHER	Gross Weight(kg)	13.5			
	Humidity	5% to 95% Relatiy Humidity (Non-condensing)			
	Operating Temperature	0°C~50°C			
	Storage Temperature	-15°C ~60°C			