


High Frequency Off Grid Solar Inverter

PV1800 VHM Series (2KW-5.5KW)



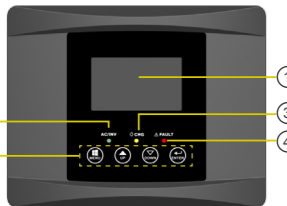
Features

- Rated power : 2KW -5.5KW
- Pure sine wave solar inverter
- Output power factor 1
- Built-in 80A MPPT solar charger
- Built-in anti-dust kit for harsh environment
- Support parallel operation up to 3 units (available for 3KW-5.5KW 48V)
- WIFI remote monitoring (optional)
- Compatible to generator

Introduction

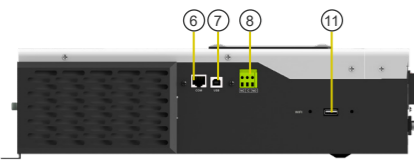
PV1800 VHM is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Back panel printing description

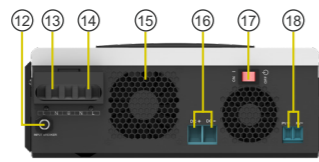


1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons

6. RS-485 Communication port
7. USB
8. Dry contact
9. Parallel switch
10. Parallel communication port (only for parallel model)
11. USB WiFi
10. Circuit breaker
11. AC input
12. AC output
13. Fan
14. Battery input
15. Power on/off switch
16. PV input

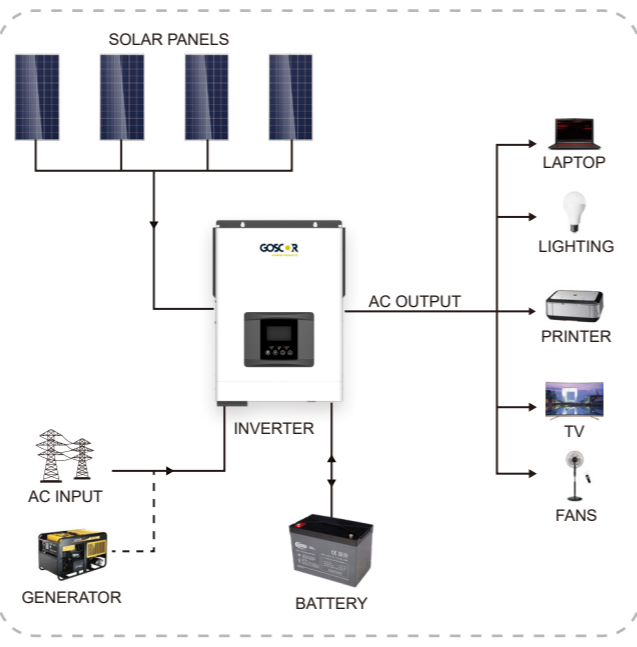


(2KW-3KW)



(3KW-5.5KW)

Solar system connection



Specification

MODEL		PV18-2024 VHM	PV18-3024 VHM	PV18-3048 VHM	PV18-4048 VHM	PV18-5048 VHM	PV18-5548 VHM	
Nominal Battery System Voltage		24VDC			48VDC			
INVERTER OUTPUT	Rated Power	2000W	3000W	3000W	4000W	5000W	5500W	
	Surge Power	4000W	6000W	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	24VDC			48VDC			
	Floating Charge Voltage	27.4VDC			54.8VDC			
	Overcharge Protection	30VDC			60VDC			
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	145VDC						
	PV Array MPPT Voltage Range	30~130VDC			60~130VDC			
	Standby Power Consumption	2W						
	PV Input Power	2000W			4000W			
	Maximum Solar Charge Current	80A						
	Maximum Efficiency	98%						
	Maximum AC Charge Current	20A/30A			60A			
MECHANICAL SPECIFICATIONS	Maximum Charge Current	80A			140A			
	Machine Dimensions(W*H*D)(mm)	272*355*100				297.5*468*125		
	Package Dimensions(W*H*D)(mm)	540*395*241				638*395*241		
	Net Weight(kg)	10	11	13.3				
Gross Weight(kg)	11.7	12	16.4					
OTHER	Humidity	5% to 95% Relatly Humidity (Non-condensing)						
	Operating Temperature	0°C~50°C						
	Storage Temperature	-15°C ~60°C						

The technical specifications of this document are subject to change without any notice

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