

# HIGH FREQUENCY SOLAR INVERTER PV1800 VHM Series

5.5KW | MPPT 80A | PV 250V



## High-Efficiency & Stable Output

- 5.5kW rated power with pure sine wave output
- Output power factor 1.0 for full power utilization

## Smart Solar Charging

- Built-in 80A MPPT solar charger, supports up to 250V PV open-circuit voltage
- PV lithium battery activation function for enhanced compatibility

## Flexible Expansion & Communication

- Supports parallel operation of up to 3 units for scalable system capacity
- CAN / RS485 communication port available for BMS (optional)

## Intelligent Monitoring & Compatibility

- Wi-Fi remote monitoring for real-time system management (optional)
- Generator compatible for reliable backup power

## MAIN PARAMETER

MODEL	PV18-5548 VHM
Nominal Battery System Voltage	48VDC
<b>INVERTER OUTPUT</b>	
Rated Power	5500W
Surge Power	11000W
Waveform	Pure Sine Wave
AC Voltage Regulation (Batt.Mode)	(220VAC~240VAC)±5%
Inverter Efficiency(Peak)	93%
Transfer Time	10ms (UPS / VDE4105) 20ms (APL)
<b>AC INPUT</b>	
Voltage	230VAC
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE4105)
Frequency Range	50Hz / 60Hz(Auto sensing)
<b>BATTERY</b>	
Normal Voltage	48VDC
Floating Charge Voltage	54.8VDC
Overcharge Protection	60VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
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
Maximum Charge Current	140A

## OTHER PARAMETER

MODEL	PV18-5548 VHM
<b>MECHANICAL SPECIFICATIONS</b>	
Machine Dimension (W*H*D)(mm)	329*485*134
Package Dimension (W*H*D)(mm)	/
N.W (kg)	/
G.W (kg)	/
<b>OTHER</b>	
Humidity	5% to 95% Relatly Humidity (Non-condensing)
Operating Temperature	0°C~50°C
Storage Temperature	-15°C ~60°C
Warranty	2 year

## CERTIFICATION & STANDARDS

CE-LVD: EN 62109-1:2010; EN 62109-2:2011; BS EN 62109-1:2010; BS EN 62109-2:2011; CE-EMC: EN 61000-6-3:2007+A1:2011+AC:2012; EN 61000-3-12:2011; EN 61000-3-11:2000; EN 61000-6-1:2019; IEC 61683:1999; ROHS:2011/65/EU and 2015/863/EU