

VM SERIES



Product Features

- Pure Sine wave solar inverter
- Output power factor 1.0
- High PV input voltage range 120-450V
- Built-in 80A MPPT solar charger
- Battery equalization function to optimize battery performance and extend lifecycle
- Built-in anti-dust kit for harsh environment
- Support working without battery



System connection



Overview

- 1. AC input
- 2. AC output
- 3. PV input
- 4. Battery
- 5. GND

Off Grid Solar Inverter

MODEL	VM 1.5K	VM 2.4KW
Rated Output Power	1500VA /1500W	3000VA /2400W
Nominal Input Voltage	230Vac	
MaxAC Input Voltage	300Vac	
Nominal Input Frequency	50Hz/60Hz(Auto detection)	
Output Short Circuit Protection	Circuit Breaker	
Efficiency(Line Mode)	>95%(Rated R load,battery full charged)	
Transfer Time	10ms (Personal Computers);20ms (Home Appliances)	
Inverter Mode Specifications		
Output Voltage Waveform	Pure Sine wave	
Output Voltage Regulation	230 Vac±5%	
OutPut Frequency	50Hz	
Peak Efficiency	90%	
Overload Protection	5s@=150% load;10s@110%-150% load	
Surge Capacity	2* rated power for 5 seconds	
Nominal DC Input Voltage	12Vdc	24Vdc
Cold Start Voltage	11.5Vdc	23.0Vdc
High DC Recovery Voltage Frequency	14.0Vdc	32Vdc
High DC Cut Off Voltage	16.0Vdc	33Vdc
No Load Power Consumption	<25W	<30W
Charging Mode Specifications		
Charging Algorithm	3-Step	
AC Charging Current(Max)	60Amp	60Amp
Bulk Charging Voltage Flooded Battery	14.6	29.2
	14.1	28.2
Floating Charging Voltage Battery	13.5Vdc	27Vdc
MPPT Solar Charging Mode		
Max PV Array Power	2000W	3000W
Nominal PV Voltage	240Vdc	
PV Array MPPTVoltage Range	90-430Vdc	
Max-Py Array Open Circuit Voltage	450Vdc	
Max Charging Current (AC charger plus solar charger)	80A	80A
Maxiumn Solar Charging Current	80A	80A
Safety Certification	CE	
Operating Temperature Range	-10 °C ~50 °C	
Storage Temperature	-15 °C ~60 °C	
Humidity	5%to 95%Relative Humidity(Non-condensing)	
Dimension(D*W*H),mm	348*270*95	
Net Weight (kg)	4	5

