

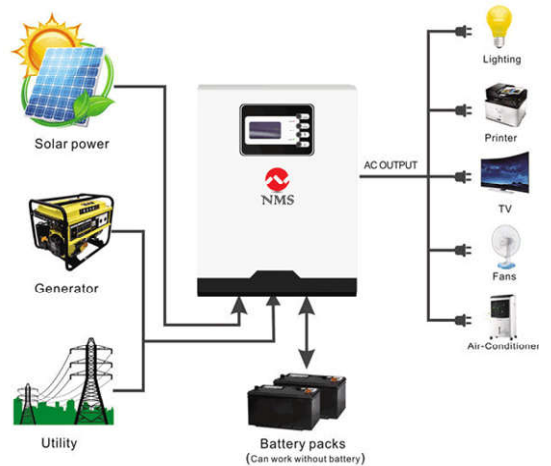
# VM II Series 3KW / 5.5KW (1ph in / 1ph out)

Off Grid Solar Inverter  
(Operation without battery and support parallel up to 9 units)



## Key Features

- High efficiency pure sine wave solar inverter
- Output power factor 1
- Parallel operation up to 9 units
- Inverter running without battery connecting
- Built-in 100A MPPT solar charger
- High PV input voltage range 120-450Vdc
- Built-in anti-dusk kit for harsh environment
- Battery independent design
- Battery equalization function to optimize battery performance and extend lifecycle

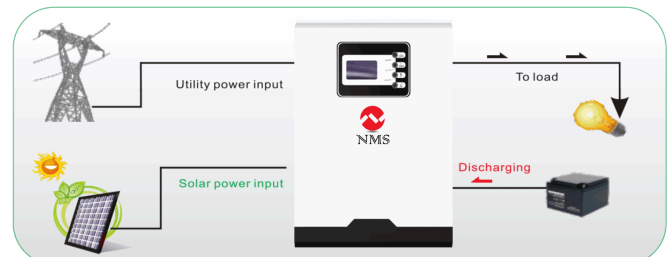
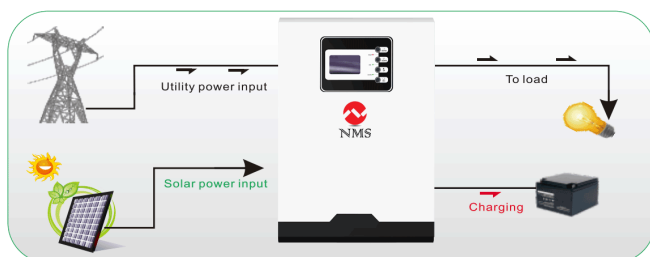


## ● Anti-Dust Kit:

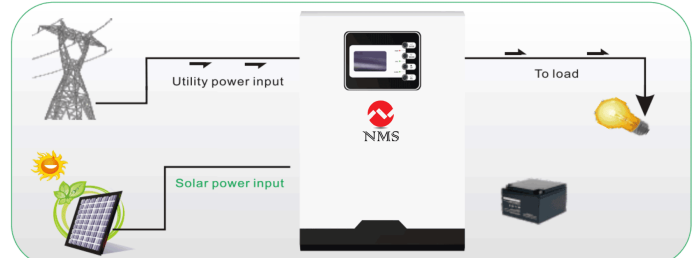
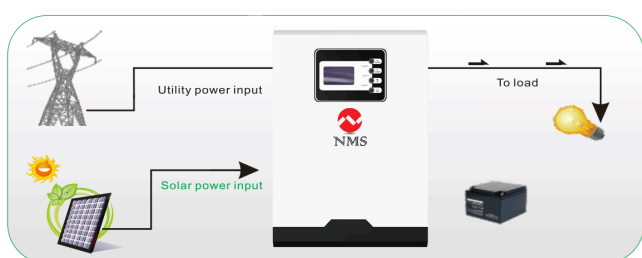
After installing this anti-dust kit, inverter will automatically detect this kit and activate internal thermal sensor to adjust internal temperature. By virtue of the dustproof design, it dramatically increases product reliability in harsh environment.

## Operation

### ■ With battery connected

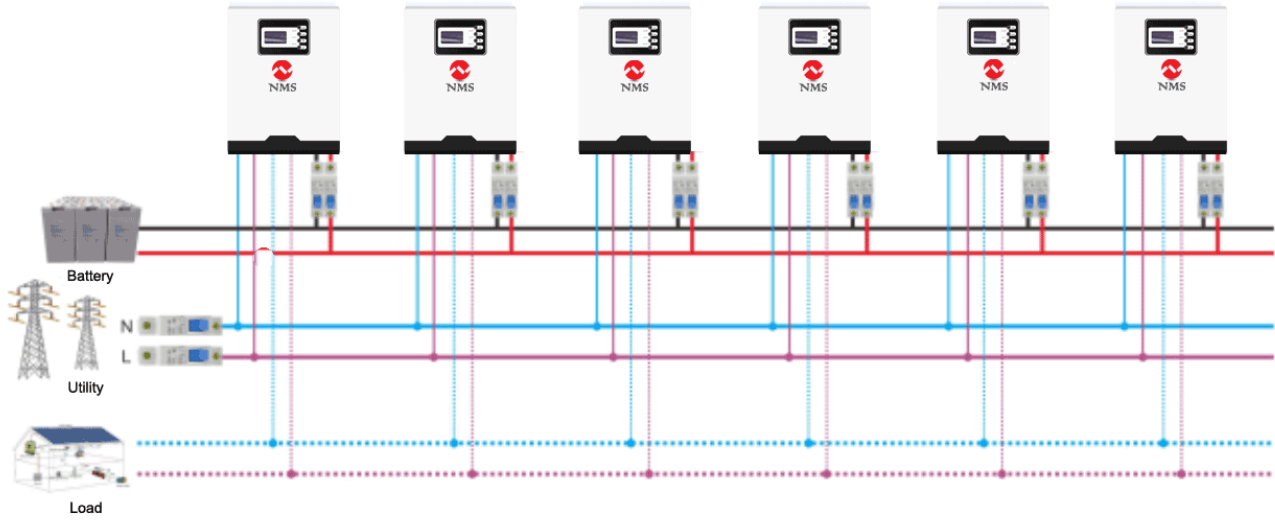


### ■ Without battery connected

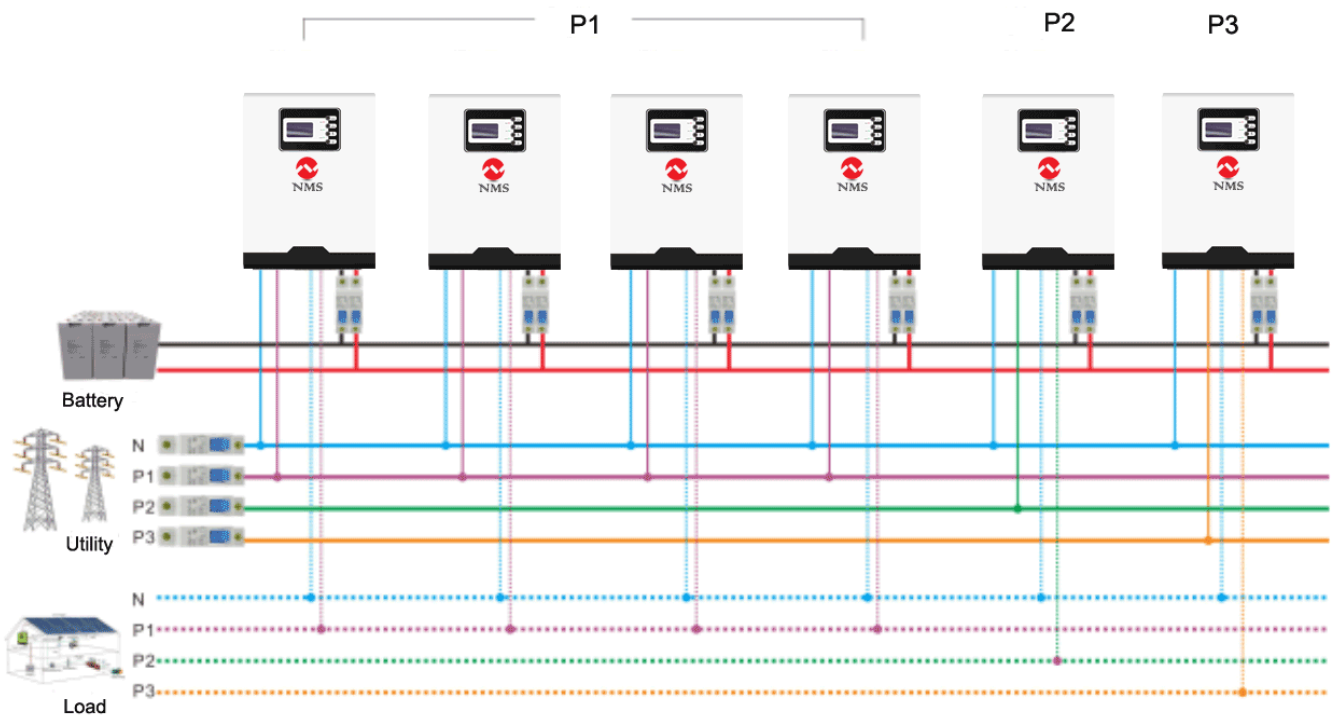


## Parallel Function

### Single phase output up to 49.5KW using 9 units



### Three phase output using either 3units (16.5KW) or max 9 units (49.5KW)



## Technical Specifications:

Model	VM II 3K-24	VM II 5.5K-48
Rated Power	3000VA / 3000W	5500VA / 5500W
<b>INPUT</b>		
Voltage	230VAC	
Selectable Voltage Range	170-280VAC(For Personal Computers);90-280VAC(For Home Appliances)	
Frequency Range	50Hz / 60Hz(Auto Sensing)	
<b>OUTPUT</b>		
AC Voltage Regulation(Batt.Mode)	230VAC $\pm$ 5%	
Surge Power	6000VA	11000VA
Efficiency(Peak)	UP to 93.5%	
Transfer Time	10ms (For Personal Computers); 20ms (For Home Appliances)	
Waveform	Pure Sine Wave	
<b>BATTERY</b>		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum PV Array Power	5500W	
MPPT Range @ Operating Voltage	120 ~ 450VDC	
Maximum Solar Charge Current	100A	
Maximum AC Charge Current	80A	
Maximum Charge Current	100A	
<b>PHYSICAL</b>		
Dimension, D*W*H(mm)	100*300*440	
Net Weight(kgs)	9	10
Communication Interface	USB / RS232	
<b>ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Note : Product specification are subject to change without further notice.