

# 3KVA & 5KVA VM III Off Grid Hybrid Solar Inverter



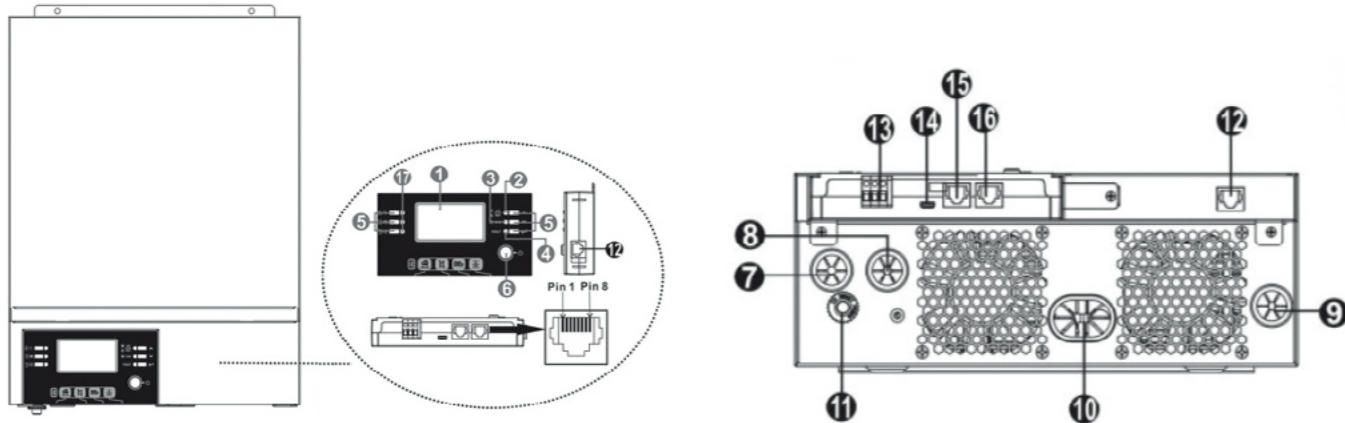
## HY VMIII Series

This is an upgraded multi functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterrupted power support in portable size. Support Bluetooth for mobile monitoring, and its detachable LCD display module 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.

### Main Features:

1. Support Bluetooth for mobile monitoring (Android App available).
2. Detachable LCD control module with multiple communications
3. High efficiency pure sine wave inverter(PF=1); Wide PV input range (120V dc -500V dc) 80A MPPT SCC; Intelligent 3stage 60A AC battery charger.
4. Surges to 2X continuous power for 5 seconds for motor loads.
5. Programmable Utility and Solar output usage timer and prioritization.
6. Support operation without battery, supply power from Grid or PV if battery not available.
7. Auto restart while AC is recovering.
8. Field serviceable with replacement boards and spare parts.

## Product Overview



- |                        |   |
|------------------------|---|
| 1. LCD display         | 10. Battery input   |
| 2. Status indicator    | 11. Circuit breaker   |
| 3. Charging indicator  | 12. Remote LCD panel communication port   |
| 4. Fault indicator     | 13. Dry contact   |
| 5. Function buttons    | 14. USB communication port  |
| 6. Power on/off switch | 15. BMS Communication port: CAN and RS232 or RS485  |
| 7. AC input            | 16. RS-232 communication port   |
| 8. AC output           | 17. LED indicators for USB function setting/ Output source priority timer / Charger source priority setting |
| 9. PV input            |   |

# High Frequency Solar Inverter

## Technical Specifications:

Model	HY3222VMIII	HY3522VMIII	HY5032VMIII	HY5532VMIII
RATED POWER	3200VA/3200W	3500VA/3500W	5000VA/5000W	5500VA/5500W
<b>INPUT</b>				
Voltage	230 VAC			
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
<b>OUTPUT</b>				
AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%			
Surge Power	6000VA	7000VA	10000VA	11000VA
Efficiency (Peak)	90%-93%			
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
<b>BATTERY</b>				
Battery Voltage	24 VDC	24 VDC	48 VDC	48 VDC
Floating Charge Voltage	27 VDC	27 VDC	54 VDC	54 VDC
Overcharge Protection	33 VDC	33 VDC	63 VDC	63 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>				
Solar charger type	MPPT			
Max. PV Array Open Circuit Voltage	500VDC	500VDC	500VDC	500VDC
MPP Range @operating Voltage	120-450VDC	120-450VDC	120-450VDC	120-450VDC
Max. PV Array Power	4000 W	5000 W	5000 W	6000 W
Max. Solar Charge Current	80 A	100 A	80 A	100 A
Max. AC Charge Current	60 A	60 A	60 A	60 A
Max. Charge Current	80 A	80 A	80 A	80 A
<b>PHYSICAL</b>				
Dimension, D x W x H (mm)	115 x 300x 400			
Net Weight (kgs)	9	9	10	10
Communication Interface	USB/RS232/RS485/Bluetooth/Dry-contact			
<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			

## Approximate Back-Up Time Table:

Model	Load (VA)	Backup Time @24Vdc 100Ah(min)	Backup Time @24Vdc 200Ah(min)
3KVA	300	359	880
	1500	54	131
	3000	22	54
Model	Load (VA)	Backup Time @48Vdc 100Ah(min)	Backup Time @48Vdc 200Ah(min)
5KVA	500	490	1030
	2500	72	172
	5000	32	72

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