

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



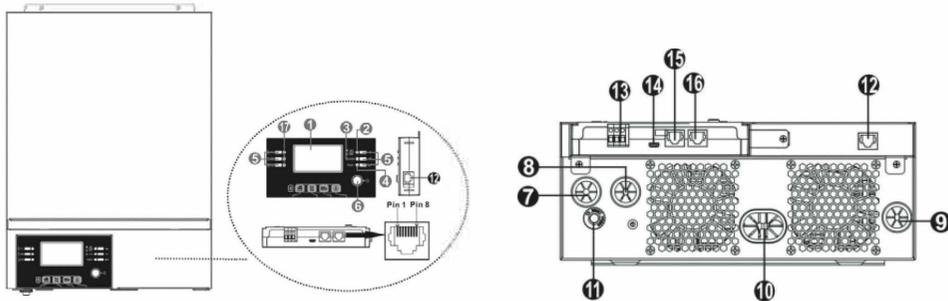
HY VMIII Series

This is an upgraded multi functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible 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 |
| INPUT | | | | |
| Voltage | 230 VAC | | | |
| Selectable Voltage Range | 90-280 VAC | | | |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) | | | |
| OUTPUT | | | | |
| AC Voltage Regulation (Batt. Mode) | 220/ 230/ 240 VAC | | | |
| 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 | | | |
| BATTERY | | | | |
| 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 |
| SOLAR CHARGER & AC CHARGER | | | | |
| 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 |
| PHYSICAL | | | | |
| 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 | | | |
| ENVIRONMENT | | | | |
| 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.