Off Grid Solar Hybrid Inverter operate without Battery

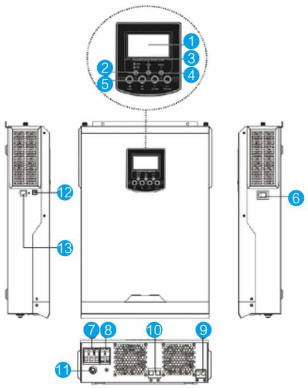
HY VMII Series

This is a multi functional inverter/charger, combining functions of inverter,solar charger and battery charger to offer uninterruptible power support in portable size. Its comprehensive LCD display 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:

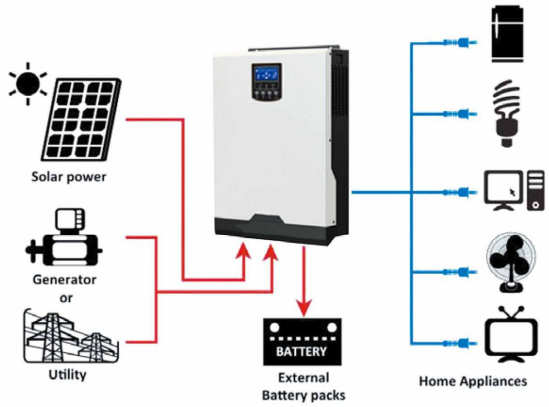
1. High efficiency pure sine wave inverter(PF=1);Wide PV input range (120V dc ~500V dc) 80A MPPT SCC;Intelligent 3 stage 60A AC battery charger.
2. Surges to 2X continuous power for 5 seconds for motor loads.
3. Intelligent functionality enables utility and solar input prioritization.
4. Wide ulility input range (90V ac ~280Vac) for unreliable grid even in the most challenging environments.
5. Field serviceable with replacement boards and spare parts.
6. Monitor, troubleshoot, or communication with USB/RS 232.
7. System configures quickly into compact, wall-mounted system.
8. This series inverters can work without batteries when there is the sun.

Product Overview



1.LCD display
2.Status indicator
3.Charging indicator
4.Fault indicator
5.Function buttons
6. Power on/off switch
7.AC input
8.AC output
9.PV input
10.Battery input
11.Circuit breaker
12.USB communication port
13.RS-232 communication port

Solar System Connection



Back Panel

High Frequency Solar Inverter

Technical Specifications:

Model	HY3222VMII	HY3522VMII	HY5032VMII	HY5532VMII
RATED POWER	3200VA/3200W	3500VA/3500W	5000VA/5000W	5500VA/5500W
INPUT				
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)			
OUTPUT				
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			
BATTERY				
Battery Voltage	24 VDC		48 VDC	
Floating Charge Voltage	27 VDC		54 VDC	
Overcharge Protection	33 VDC		63 VDC	
SOLAR CHARGER & AC CHARGER				
Max. PV Array Open Circuit Voltage	500VDC		500VDC	
Max. PV Array Power	120~450VDC		120~450VDC	
MPP Range @operating Voltage	4000 W		5000 W	
Max. Solar Charge Current	80 A	100 A	80 A	100 A
Max. AC Charge Current	60 A		60 A	
Max. Charge Current	100 A		100 A	
PHYSICAL				
Dimension, D x W x H (mm)	115 x 300x 400			
Net Weight (kgs)	9		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)
3.2KVA	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

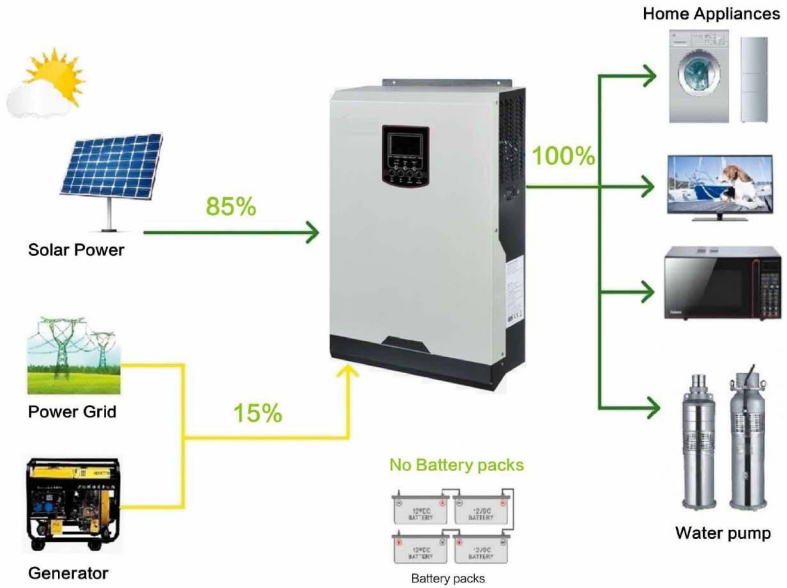
Note: Product specifications are subject to change without further notice.

VMII Series Off Grid Solar Systems can operate Without Battery

VMII 3.2KW Off Grid Solar Power System

Items	Description	Quantity	Price
Solar panel	300W 31V Mono Solar Panel	12pcs	
Solar Inverter with 80A MPPT solar controller.	HY3222 VMII 3.2KW 24V hybrid solar inverter	1pc	
Battery	Deep Cycle battery 12V 200Ah	2pcs	
Solar mounting brackets	Aluminium brackets can mount 2pcs solar panels	6sets	
Solar cable & connectors	50m 4mm2 solar cable & 2sets MC4 connectors	50m+2sets	

When solar power is not enough



VMII 5KW Off Grid Solar Power System

Items	Description	Quantity	Price
Solar panel	300W 31V Mono Solar Panel	12pcs	
Solar Inverter with 80A MPPT solar controller.	HY5032 VMII 5KW 48V hybrid solar inverter	1pc	
Battery	Deep Cycle battery 12V 200Ah	4pcs	
Solar mounting brackets	Aluminium brackets can mount 2pcs solar panels	6sets	
Solar cable & connectors	50m 4mm2 solar cable & 2sets MC4 connectors	50m+2sets	

When solar power is enough