

# Off Grid Solar Hybrid Inverter operate without Battery



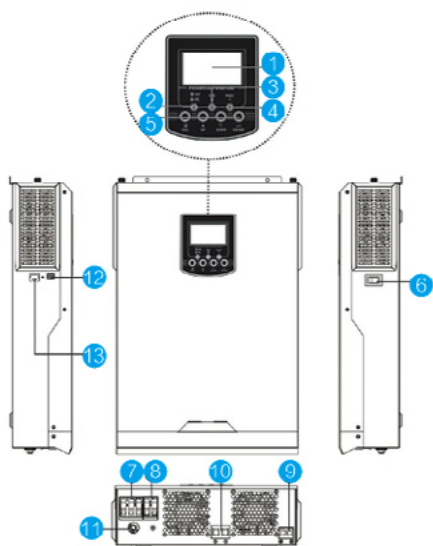
## HY VMII Series

This is a multi functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterrupted 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:

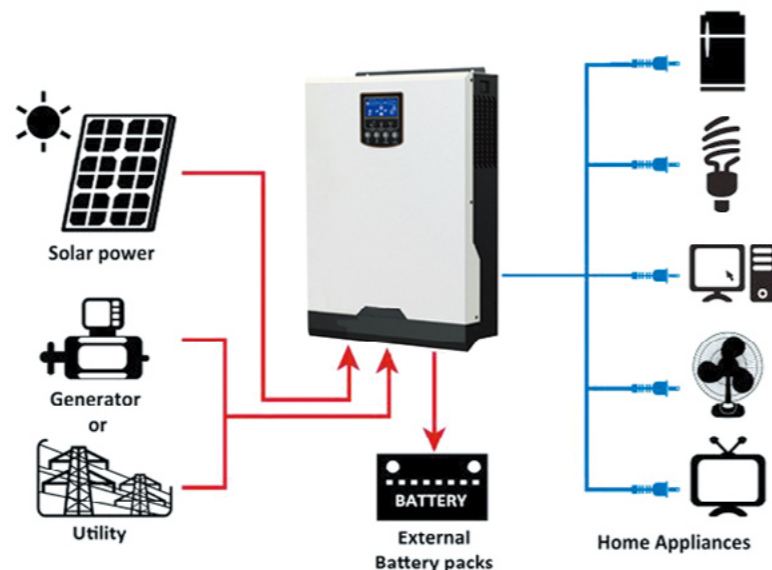
1. High efficiency pure sine wave inverter(PF=1);Wide PV input range (120V dc ~500V dc) 80A MPPT SCC;Intelligent 3 stage 60A AC battery charger.
2. Surges to 2X continuous power for 5 seconds for motor loads.
3. Intelligent functionality enables utility and solar input prioritization.
4. Wide utility 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
<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		48 VDC	
Floating Charge Voltage	27 VDC		54 VDC	
Overcharge Protection	33 VDC		63 VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>				
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	
<b>PHYSICAL</b>				
Dimension, D x W x H (mm)	115 x 300x 400			
Net Weight (kgs)	9		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)
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.