

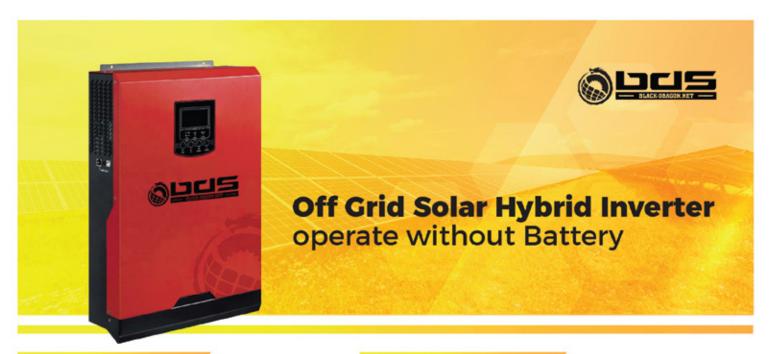


BLACK DRAGON INVERTER

Data sheet







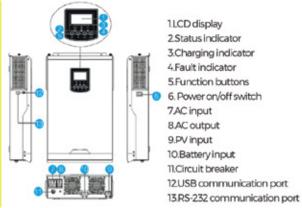
HY VMII Series

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

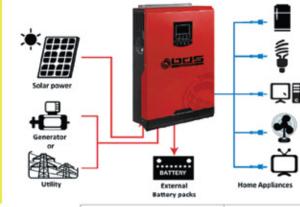
- High efficiency pure sine wave inverter(PF=1); Wide PV input range (120V dc-500V dc) 80A MPPT SCC; Intelligent 3 stage 60A AC battery charger.
- Surges to 2X continuous power for 5 seconds for motor loads.
- Intelligent functionality enables utility and solar input prioritization.
- 4. Wide ulility input range (90V ac ~280Vac) for unreliable grid even in the most challenging environments.
- Field serviceable with replacement boards and spare parts.
- Monitor, troubleshoot, or communication with USB/RS 232.
- System configures quickly into compact, wall-mounted system.
- 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 7AC input 8AC output 9.PV input 10.Battery input 11.Circuit breaker 12 USB communication port

Solar System Connection













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				
·	E	BATTERY			
Battery Voltage	24 VDC		48 VDC		
Floating Charge Voltage	27 VDC		54 VDC		
Overcharge Protection	33 VDC		63 VDC		
·	SOLAR CHAR	RGER & AC CHARGE	R		
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		
'	P	PHYSICAL			
Dimension, D x W x H (mm)	115 x 300x 400		300x 400		
Net Weight (kgs)	9		10		
Communication Interface	USB/RS232/RS485/Bluetooth/Dry-contact				
'	E	NVIRONMENT			
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:

Madal	Lood (VA)	Poekus Timo @24\/do 400Ab/mis\	Bookun Timo @24\/do 2004b/min\	
Model	Load (VA)	Backup Time @24Vdc 100Ah(min)	Backup Time @24Vdc 200Ah(min)	
	300	359	880	
3.2KVA	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.





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