

• High-efficiency energy conversion:

Adopts intelligent power modules and sine PWM control technology to improve power conversion efficiency.

Dynamic tracking adjustment:

Equipped with sunlight dynamic tracking technology to adjust working status in real time according to light intensity.

Significant cost advantage:

No battery required, reducing equipment cost and maintenance expenses.

• Multiple safety protections:

Equipped with overvoltage, overcurrent, short - circuit, overload and other protection mechanisms.

· Strong motor compatibility:

Supports various asynchronous motor water pumps for different power types.

• Flexible operation mode:

Can adjust working modes according to scene needs for different water supply requirements.

• Multi-scenario adaptability:

Suitable for agricultural/forestry irrigation, desertification control, remote area water supply and other scenarios.

• Operable in both off-grid and grid-connected conditions:

It can operate in both off-grid and grid-connected environments, getting rid of the dependence on traditional power grids, making it ideal for areas without electricity or suffering from power shortages.

• Automatic PV voltage detection start:

It automatically detects the photovoltaic voltage to start up, without a DC switch, eliminating the trouble of manual activation.

APPLICATION SCENARIOS



Living Water Supply



Agriculture and Forestry Irrigation



Pasture Animal Husbandry

SPECIFICATION

MODEL	MR-VFD5.5K -H3P20	MR-VFD7.5K -H3P20	MR-VFD11K -H3P20	MR-VFD15K -H3P20	MR-VFD18K -H3P20	MR-VFD22k -H3P20
DC Input		1				
Max. Input Voltage	780V					
Min. Operating Voltage	240V					
Start Voltage	270V					
MPP Voltage Range	500V ~ 620V					
Recommended MPP Voltage	560V					
Recommended PV Array Power	8.3~11.0kW	11.3~15.0kW	16.5~22.0kW	22.5~30.0kW	27.0~36.0kW	33.0~44.0kW
AC Input						
nput Voltage	3PH 380V(-15%) ~ 440V(+10%)					
nput Frequency	50 / 60Hz					
AC Output						
Rated Power	5.5kW	7.5kW	11.0kW	15.0kW	18.5kW	22.0kW
Rated Current	14.0A	18.5A	25.0A	32.0A	38.0A	45.0A
Output Voltage	3PH 0V ~ 380V / 440V					
Output Frequency	50 / 60Hz					
Control Performance						
Control Mode	V/F , SVC					
Overload Capability	150)% of rated curr	ent: 60 seconds	; 180% of rated	current: 1 second	s
Protection						
Jndervoltage Protection	Integrated					
Overvoltage Protection	Integrated					
Overload Protection	Integrated					
Short-circuit Protection	Integrated					
Overheat Protection	Integrated					
	Integrated					
Ory-Run Protection			Integr			
			Integr	rated		
Surge Protection				rated		
Surge Protection General Data				rated		
General Data ngress Protection Degree			Integr	rated rated 20		
General Data ngress Protection Degree Cooling Mode			Integr IP2	rated rated 20 poling		
Gurge Protection General Data Ingress Protection Degree Cooling Mode Communication Interface	-10°C ~ :		Integr IP2 Air Cc RS485 communi	rated rated 20 poling cation interface	by every addition	al 1°C)
General Data Ingress Protection Degree Cooling Mode Communication Interface Ambient Operating Temperature		50°C(>40°C, rate	Integri IP2 Air Cc RS485 communi ed power will be	rated rated 20 poling cation interface derated for 1% k	by every addition	<u> </u>
General Data Ingress Protection Degree Cooling Mode Communication Interface Ambient Operating Temperature Operation Altitude		50°C(>40°C, rate	Integri IP2 Air Cc RS485 communi ed power will be	rated rated 20 poling cation interface derated for 1% k	nal 100m when the alti	<u> </u>
General Data Ingress Protection Degree Cooling Mode Communication Interface Ambient Operating Temperature Operation Altitude Product Dimension (W*H*D)	Recommend <200	50°C(>40°C, rate	Integri IP2 Air Cc RS485 communi ed power will be	rated rated 20 poling cation interface derated for 1% k	nal 100m when the alti	<u> </u>
Dry-Run Protection Surge Protection General Data Ingress Protection Degree Cooling Mode Communication Interface Ambient Operating Temperature Operation Altitude Product Dimension (W*H*D) Gross Weight Standard Warranty	Recommend < 200 160*249	50°C(>40°C, rate 0m (the rated power *191mm	Integri IP2 Air Co RS485 communi ed power will be r will be decreased for	rated rated 20 poling cation interface derated for 1% k r 1% by every addition 208 * 323 * 19 6.1kg	nal 100m when the alti	tude is ≥ 1000m)

Specifications are subject to change without notice, and all product drawings are for reference only. Consult MARSRIVA for the latest design and specifications.



MARSRIVA SOLAR SYSTEM CONNECTION



Submersible Pump