

Solar Pumping Inverter

Three Phase - IP20 - High Frequency

Model: MR-VFD5.5K(7.5K)-H3P20

FEATURES

- Adopts intelligent power modules and sine PWM control technology to improve power conversion efficiency.
- Equipped with sunlight dynamic tracking technology to adjust working status in real time according to light intensity.
- No battery required, reducing equipment cost and maintenance expenses.
- Equipped with overvoltage, overcurrent, short-circuit, overload and other protection mechanisms.
- Supports various asynchronous motor water pumps for different power types.
- Can adjust working modes according to scene needs for different water supply requirements.
- Suitable for agricultural / forestry irrigation, desertification control, remote area water supply and other scenarios.
- 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.
- It automatically detects the photovoltaic voltage to start up, without a DC switch, eliminating the trouble of manual activation.



SPECIFICATION

MODEL	MR-VFD5.5K-H3P20	MR-VFD7.5K-H3P20
DC Input		
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
AC Input		
Input Voltage	3PH 380V(-15%) ~ 440V(+10%)	
Input Frequency	50 / 60Hz	
AC Output		
Rated Power	5.5kW	7.5kW
Rated Current	14.0A	18.5A
Output Voltage	3PH 0V ~ 380V / 440V	
Output Frequency	50 / 60Hz	
Control Performance		
Control Mode	V/F , SVC	
Overload Capability	150% of rated current: 60 seconds; 180% of rated current: 1 seconds	
Protection		
Undervoltage Protection	Integrated	
Overvoltage Protection	Integrated	
Overload Protection	Integrated	
Short-circuit Protection	Integrated	
Overheat Protection	Integrated	
Dry-Run Protection	Integrated	
Surge Protection	Integrated	
General Data		
Ingress Protection Degree	IP20	
Cooling Mode	Air Cooling	
Communication Interface	RS485 communication interface	
Ambient Operating Temperature	-10°C ~ 50°C(>40°C, rated power will be derated for 1% by every additional 1°C)	
Operation Altitude	Recommend <2000m (the rated power will be decreased for 1% by every additional 100m when the altitude is ≥ 1000m)	
Product Dimension (W*H*D)	160*249*191mm	
Gross Weight	3.6kg	3.7kg
Standard Warranty	18 Month	
Certification Standards	CE	