

Solar Pumping Inverter

Three Phase - IP20 - High Frequency

Model: MR-VFD11K(15K/18K/22K)-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-VFD11K-H3P20	MR-VFD15K-H3P20	MR-VFD18K-H3P20	MR-VFD22K-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	16.5~22.0kW	22.5~30.0kW	27.0~36.0kW	33.0~44.0kW
AC Input				
Input Voltage	3PH 380V(-15%) ~ 440V(+10%)			
Input Frequency	50 / 60Hz			
AC Output				
Rated Power	11.0kW	15.0kW	18.5kW	22.0kW
Rated Current	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 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℃ ~ 50℃(>40℃, rated power will be derated for 1% by every additional 1℃)			
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)	208 * 323 * 196 mm			
Gross Weight	6.0kg	6.1kg	6.4kg	6.8kg
Standard Warranty	18 Month			
Certification Standards	CE			