

WATER PUMP

MasterPower
Unlimited power

Series Omega 2.2kW LS

WATER PUMP INVERTER



Features

- Built-in MPPT solar charger.
- It supports both single-phase and three-phase induction motors, depending on the model.
- It supports single-phase AC input when PV power is not sufficient.
- Built-in full protection and self-diagnosis.
- Soft start function prevents water hammer effect and extends system lifecycle.
- Comprehensive LEDs and display screen for real-time system status.
- Remote monitoring through RS-485.
- Optional remote panel available.

Technical Specifications

Rated Output Power	2200 W (3 HP) (supports 0.75 ~ 3 HP water pump)	
PV INPUT (DC)		
Nominal DC Voltage/Max. DC Voltage	320 / 450V DC	
Start-Up Voltage	120 VDC	
MPPT Voltage Range	120 ~ 420 VDC	
Maximum PV Current	6 A	
Number of MPP Trackers	1	
AC INPUT		
Input Voltage	220 / 230 / 240 VAC (-15% ~ 10%)	
Input Frequency	47 ~ 63 Hz	
OUTPUT		
Nominal Voltage	220 / 230 / 240 VAC	
Efficiency	> 97%	
Nominal Output Current	14 A	10 A
Motor Type	Single-phase motor	Three-phase asynchronous motor
Frequency Precision	± 0.2%	
PROTECTION		
Full Protection	Phase lost, dry pumping, motor locked, weak sunlight, over-voltage, under-voltage, over-current, surge, over-temperature and short circuit protection.	
PHYSICAL		
Dimensions, (D x W x H)	110 x 230 x 342 mm	
Net Weight	5 kg	
IP Protection	IP20	
INTERFACE		
Communication Port	RS-232 / RS-485	
ENVIRONMENT		
Humidity	< 95% RH (Non-condensing)	
Operating Temperature	-20°C ~ 45°C at 100% full load, 46°C ~ 60°C power derating.	

Product specifications are subject to change without further notice.



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