



Features

- Pure sine wave solar inverter (on/ off grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory settings
- Built-in lithium battery automatic activation
- Dual communication ports for battery communication and wifi communication
- Built remove LCD display and key
- Built-in 120A MPPT solar charger
- Built-in anti-dusk kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

Data Sheet

Model	MHV-3K6	MHV-4K2	MHV-6K2
Phase	1- phase		
Max. PV Input Power	6200W	6200W	6500W
Rated Output Power	3600W/3600VA	4200W/4200VA	6200W/6200VA
Max. Solar Charging Current	120A		
GRID-TIE OPERATION			
PV Input (DC)			
Nominal DC Voltage / Max. DC Voltage	360/500VDC		
Start-up Voltage / Initial Feeding Voltage	60VDC/90VDC		
MPPT Voltage Range	60~450VDC		
Number of MPPT Trachers / Max. Input Current	1/18A		1/22A
Efficiency			
Max. Conversion Efficiency (DC/AC)	98%		
Two Load Output Power			
Full Load	3600W	4200W	6200W
Max. Main Load	3600W	4200W	6200W
Max. Second Load (Battery Mode)	1200W	1400W	2067W
Main Load Cut Off Voltage	26VDC	26VDC	52VDC
Main Load Return Voltage	27VDC	27VDC	54VDC
OFF-GRID OPERATION			
AC Input			
AC Start-up Voltage / Auto Restart Voltage	120~140VAC / 180VAC		
Acceptable Input Voltage Range	90~280VAC Cor 170~280VAC		
Frequency Range	59~61 ± 1Hz		
Max. AC Input Current	21.1A	24.7A	36.4A
PV Input (DC)			
Nominal DC Voltage / Max. DC Voltage	360/ 500VDC		
MPPT Voltage Range	60~450VDC		
Number of MPPT Trachers / Maximum Input Current	1/18A		1/22A
Battery Mode Output (AC)			
Nominal Output Voltage	220/ 230/ 240VAC		
Output Waveform	Pure sine wave		
Efficiency (DC to AC)	94%		
Battery & Charger			
Nominal DC Voltage	24VDC		48VDC
Max. Solar Charging Current	120A		
Max. AC Charging Current	100A		
Max. Solar + AC Charging Current	120A		
HYBRID OPERATION			
PV Input (DC)			
Nominal DC Voltage / Max. DC Voltage	360/ 500VDC		
Start-up Voltage / Initial Feeding Voltage	90VDC/ 120VDC		
MPPT Voltage Range	60~450VDC		
Max. Input Current	1/18A		1/22A
Grid Output (AC)			
Nominal Output Voltage	220/ 230/ 240VAC		
Output Voltage Range	195~253VAC		
Nominal Output Current	15.7A	18.2A	27.0A
AC Input			
AC Start-up Voltage / Auto Restart Voltage	120~140VAC/ 180VAC		
Acceptable Input Voltage Range	90~280VAC or 170~280VAC		
Max. AC Input Current	21.1A	24.7A	36.4A
Max. AC Charging Current	100A		
GENERAL			
Physical			
Dimension (DxWxH) mm	420*350*145		
Net Weight (KGS)	9.0	9.5	10.0
Gross Weight (KGS)	10.0	10.5	11.0
Interface			
Communication Port	RS232/ RS485/ Remove LCD/ WIFI/ GPRS/ LITHIUM Battery		
Environment			
Humidity	5% to 95% relative humidity (Non-condensing)		
Operating Temperature	- 10°C ~ 50°C		