



## 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 and wifi communication
- Built-in 120A MPPT solar charger:  
max 6200W (for 4.2KW), max 6500W (for 6.2KW)
- High PV input voltage range (60-450VDC)
- Built-in anti-dusk kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

## Data Sheet

Model	MHE-4K2	MHE-6K2
Phase		
Max. PV Input Power	6200W	6500W
Rated Output Power	4200W/4200VA	6200W/6200VA
Max. Solar Charging Current	120A	
<b>GRID-TIE OPERATION</b>		
<b>PV Input (DC)</b>		
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
<b>Grid Output (AC)</b>		
Nominal Output Voltage	220V/230V/240VAC	
Output Voltage Range	195-253VAC	
Nominal Output Current	18.2A	27.0A
Power Factor	> 0.99	
<b>Efficiency</b>		
Max. Conversion Efficiency (DC/AC)	98%	
<b>Two Loads Output Power</b>		
Full Load	4200W	6200W
Max. Main Load	4200W	6200W
Max. Second Load (Battery Mode)	1400W	2067W
Main Load Cut Off Voltage	26VDC	52VDC
Main Load Return Voltage	27VDC	54VDC
<b>OFF-GRID OPERATION</b>		
<b>AC Input</b>		
AC Start-up Voltage / Auto Restart Voltage	120-140VAC / 180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Frequency Range	59-61 ± 1Hz	
Max. AC Input Current	24.7A	36.4A
<b>PV Input (DC)</b>		
Nominal DC Voltage / Max. DC Voltage	360/500VDC	
MPPT Voltage Range	60-450VDC	
Max. Input Current	1/18A	1/22A
<b>Battery Mode Output (AC)</b>		
Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	94%	
<b>Battery &amp; Charger</b>		
Nominal DC Voltage	24VDC	48VDC
Max. Solar Charging Current	120A	120A
Max. AC Charging Current	100A	100A
Max. Solar + AC Charging Current	120A	120A
<b>HYBRID OPERATION</b>		
<b>PV Input (DC)</b>		
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
<b>Grid Output (AC)</b>		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195-253VAC	
Nominal Output Current	18.2A	27.0A
Max. AC Charging Current	100A	
<b>AC Input</b>		
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Max. AC Input Current	24.7A	36.4A
Max. AC Charging Current	100A	
<b>GENERAL</b>		
<b>Physical</b>		
Dimension (DxWxH) mm	420*350*110	
Carton Dimension (DxWxH) mm	500*415*180	
Net Weight (KGS)	8.0	8.9
Gross Weight (KGS)	9.0	10.0
<b>Interface</b>		
Communication Port	RS232/ RS485/ WIFI/ GPRS/ LITHIUM Battery	
<b>Environment</b>		
Humidity	5% to 95% relative humidity (Non-condensing)	
Operating Temperature	- 10°C ~ 50°C	
<b>Standard</b>		
Compliance Safety	CE	