



## Features

- Pure sine wave solar inverter (on/ off grid)
- Inverter can run without battery
- Output power factor 1.0
- High PV input voltage range (90-500VDC)
- WIFI&GPRS available for IOS and Android
- Built-in anti-dusk kit for harsh environment
- Built-in 160A MPPT solar charger
- Smart battery charge design to optimize battery life
- One-key restoration to factory settings
- Dual communication ports for battery communication and wifi communication
- Built-in lithium battery automatic activation
- Dual output
- Dual PV input
- Touch button
- On off grid work mode

## Data Sheet

Model	MHC-8K2	MHC-10K2
Phase	1- phase	
Max. PV Input Power	5400W - 5400W	
Rated Output Power	8200W/8200VA	10200W/10200VA
Max. Solar Charging Current	160A	
<b>GRID-TIE 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	90~450VDC	
Number of MPPT Trachers / Max. Input Current	2/18A	
<b>Grid Output (AC)</b>		
Nominal Output Voltage	220V/230V/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
Power Factor	> 0.99	
<b>Efficiency</b>		
Max. Conversion Efficiency (DC/AC)	98%	
<b>Two Load Output Power</b>		
Full Load	8200W	10200W
Max. Main Load	8200W	10200W
Max. Second Load (Battery Mode)	2733W	3400W
Main Load Cut Off Voltage	52VDC	
Main Load Return Voltage	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 Cor 170~280VAC	
Frequency Range	59-61 ± 1Hz	
Max. AC Input Current	48.2A	60A
<b>PV Input (DC)</b>		
Nominal DC Voltage / Max. DC Voltage	360/500VDC	
MPPT Voltage Range	90~450VDC	
Number of MPPT Trachers / Maximum Input Current	2/18A	
<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	48VDC	
Max. Solar Charging Current	160A	
Max. AC Charging Current	140A	
Max. Solar + AC Charging Current	160A	
<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	90~450VDC	
Max. Input Current	2/18A	
<b>Grid Output (AC)</b>		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
<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	48.2A	60A
Max. AC Charging Current	140A	
<b>GENERAL</b>		
<b>Physical</b>		
Dimension (DxWxH) mm	530*390*130	
Net Weight (KGS)	14.5	15.0
Gross Weight (KGS)	16.0	17.0
<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	