



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
- Built-in 160A MPPT solar charger
- High PV input voltage range (90-500VDC)
- Built-in anti-dusk kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual communication ports for battery and wifi communication
- Dual output
- Dual PV input
- Touch button
- On off grid work mode

Data Sheet

Model	MHS-8K2	MHS-10K2
Phase	1- phase	
Max. PV Input Power	5400W + 5400W	
Rated Output Power	8200W/8200VA	10200W/10200VA
Max. Solar Charging Current	160A	
GRID-TIE OPERATION		
PV Input (DC)		
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	
Grid Output (AC)		
Nominal Output Voltage	220V/230V/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
Power Factor	> 0.99	
Efficiency		
Max. Conversion Efficiency (DC/AC)	98%	
Two Loads Output Power		
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	
OFF-GRID OPERATION		
AC Input		
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	48.2A	60A
PV Input (DC)		
Nominal DC Voltage / Max. DC Voltage	360/500VDC	
MPPT Voltage Range	90-450VDC	
Max. Input Current	2/18A	
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	48VDC	
Max. Solar Charging Current	160A	
Max. AC Charging Current	140A	
Max. Solar + AC Charging Current	160A	
HYBRID OPERATION		
PV Input (DC)		
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	
Grid Output (AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
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	48.2A	60A
Max. AC Charging Current	140A	
GENERAL		
Physical		
Dimension (DxWxH) mm	530*390*130	
Carton Dimension (DxWxH) mm	620*465*205	
Net Weight (KGS)	14.2	14.7
Gross Weight (KGS)	15.7	16.2
Interface		
Communication Port	RS232/ RS485/ WIFI/ GPRS/ LITHIUM Battery	
Environment		
Humidity	5% to 95% relative humidity (Non-condensing)	
Operating Temperature	- 10°C ~ 50°C	
Standard		
Compliance Safety	CE	