



# Hybrid Solar Inverter

Max. 140A Charging



- 4200W/6200W Pure sine wave AC Output.
- Max. solar input 6500W/500V, 140A Charging current.
- AC/Solar Charger priority can be set via LCD setting.
- Compatible to mains voltage or generator power.
- Auto restart while AC is recovering.
- Smart battery charger design.
- Cold start function.

*Note: Read and understand the installation and safety manual before installation. The copyright belongs to MIC Optoelectronic Co., Ltd. If any change will not further notice.*





# INVERTER

NEW ENERGY

Inverter Model	POW-HVM4.2M-24V	POW-HVM6.2M-48V
<b>AC Input</b>		
Input Voltage Waveform	Sinusoidal (Utility or generator)	
Nominal Input Voltage	230Vac	
Max. AC Input Voltage	300Vac	
Nominal Input Frequency	50/60Hz (Auto detection)	
Efficiency	>95% (Rated R load, battery full charged)	
Transfer Time	10ms typical (UPS); 20ms typical (Appliance)	
<b>AC Output (Back-Up)</b>		
Rated Output Power	4.2KW	6.2KW
Output Voltage Regulation	230Vac±5% Single phase	
Output Frequency	50Hz	
Peak Efficiency	93%	
Overload Protection	3s@ ≥ 150% load; 5s@101%~150% load	
Surge Capacity	2*rated power for 5 seconds	
No Load Power Consumption	42W	62W
<b>Battery Specification</b>		
Battery Type	Lithium and Lead Acid Battery, support user define	
System Voltage	24V	48V
<b>AC Charge &amp; PV Charge Mode</b>		
Charging Algorithm	3-Stages	
Max. AC Charging Current	100Amp (@VI/P=230Vac)	
Max. PV Array Power	6200W	6500W
PV MPPT Voltage Range	90~450Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
Max. Charging Current (AC +PV)	140Amp	120Amp
<b>AC Output (On-Grid)</b>		
Nominal Output Power	4.2KW	6.2KW
Feed-in Grid Voltage Range	195~253Vac Single phase	
Feed-in Grid Frequency	49~51±1Hz/ 59~61±Hz	
Nominal Output Current	18.2A	26.9A
Max. Conversion Efficiency (DC/AC)	97%	
<b>General Specification</b>		
Operation Temperature	-10°C ~50°C	
Storage Temperature	-15°C ~60°C	
Humidity	5%~95% Relative Humidity (Non condensing)	
Communication Interface	RS232	
Dimension	100x300x444mm	
Net Weight	10.5kg	11kg