

Single-Phase Hybrid Inverter (Off grid)

The application scenarios of single-phase hybrid off grid inverters are diverse, mainly concentrated in remote areas without grid connections, emergency power systems, portable power solutions, microgrid systems, and special industry applications.



Product Core Highlights



Pure sine wave solar inverter



The inverter can operate without a battery



Built in lithium battery automatic activation



Wide range input of photovoltaic voltage



Built in dust-proof kit, suitable for harsh environments



Intelligent charging design, optimizing battery life



Dual output circuit



Restore factory settings with one click

HOUSEHOLD ENERGY STORAGE PRODUCTS



Product Model	MIC-3.6KW	MIC-4.2KW	MIC-6.2KW	MASS-7.2KW	MASS-8.2KW	MASS-10.2KW
Recommended Max. PV Power	6200W	6200W	6200W	8200W	8200W	10200W
Rated Output Power	3800W/3800VA	4200W/4200VA	6200W/6200VA	7200W/7200VA	8200W/8200VA	10200W/10200VA
Max. Solar Charging Current	120A			160A	160A	160A
Photovoltaic Parameters						
Nominal Voltage/Maximum Voltage	360V/500V					
Start-up Voltage/initial Feeding Voltage	90V/120V					
MPPT Voltage Range	90V-450V					
MPPT Tracks The Number Of input Channels/Maximum input Curren	1/18A	1/18A	1/22A	1/18A	2/18A	
AC Output Data						
Rated Output Voltage/Frequency	120V 50Hz	220/230/240VAC 50/60Hz		220/230/240VAC 50/60Hz		
Rated Output Current	30A	18.2A	27.0A	31.3A	35.6A	44.3A
Voltage Range /Frequency	90-280VAC or170-280VAC 50/60Hz					
Max. Input Current	30A	30A	40A	50A		
Efficiency						
Max. Efficiency (Solar to AC)	98%					
Two Loads Output Data						
Full Load	3600W	4200W	6200W	7200W	8200W	10200W
Max. Main Load	3600W	4200W	6200W	7200W	8200W	10200W
Max. Second Load(Battery Mode)	1400W	1400W	2067W	2400W	2733W	3400W
AC Output Data (Battery Mode)						
Rated Output Voltage	120V 50Hz	220/230/240VAC 50/60Hz		220/230/240VAC		
Output Waveform	Pure sine wave					
Efficiency (DC to AC)	94%					
Battery Data						
Rated Battery Voltage	24VDC	24VDC	48VDC	48VDC	48VDC	48VDC
Max. Solar Charging Current	120A			160A		180A
Max. AC Charging Current	100A			140A		160A
General Data						
Dimension D*W*H (mm)	423*334*110			530*420*160		
Weight (Kgs)	8.5	8.5	10	14.5	14.5	15
Communications	RS232/RS485/WIFI/GPRS					
Operating Ambient Temperature	-10-50℃					