



6.2kW Off-Grid Inverter

Single-Phase | Parallel-Ready

MR-SPF6200K

- **High Performance**

Rated power 6200W with PF 1.0

- **Ultra-Lightweight**

Easy one-person wall-mounted installation

- **Maximized PV Yield**

Up to 6000W PV input with up to 500V Voc and ultra-wide 120-430V MPPT

- **Intelligent Load Management**

Dual AC outputs for separate critical and non-critical load management

- **Zero Transfer Time**

0ms Line-to-Battery transfer for uninterrupted power

- **BMS Communication**

Reserved RS485/CAN communication port

- **Fast Charging**

Adjustable charging current up to 120A

- **Smart Monitoring**

Detachable LCD and built-in Wi-Fi for App monitoring

- **Scalable Expansion**

Supports up to 9 units in parallel for system expansion



SPECIFICATION

MODEL	MR-SPF6200K
AC INPUT	
Rated Input Voltage	230VAC
Voltage Range	110VAC–280VAC
Frequency Range	50/60Hz (Auto Adaptive)
AC OUTPUT	
Rated Output Power	6200W
Rated Apparent Power	6200VA
Surge Power	12000VA (5s)
AC Output Management	Dual AC Outputs
Output Voltage	230VAC±5%
Power Factor	1
Frequency	50/60Hz
Switch Time	0ms (Line to Battery); 4ms(Inverter to Bypass)
Waveform	Pure Sine Wave
Overload Capacity	110%–150% load (10s), ≥150% load (5s)
Efficiency	Max. 93%(Line mode); Max. 92%(Battery mode)
CHARGER (PV / AC)	
Solar Charger Type	MPPT
Max. PV Input Current	27A
Max. PV Input Power	6000W
MPPT Operating Voltage Range	120–430VDC
Max. PV Open Circuit Voltage	500VDC
Max. AC Charge Current	120A
Max. Total Charge Current	120A (PV + AC)
BATTERY	
Rated Battery Voltage	48VDC
Floating Charge Voltage	54VDC
Overcharge Protection	66VDC
Max. Charging Current	120A
Battery Type	Lead-acid/Lithium/User-defined
SYSTEM & INTERFACE	
Parallel Quantity	Max. 9 units
HMI	Detachable LCD control module
Communication	Dry contact/USB/RS232/BMS(RS485&CAN)/Wi-Fi
ENVIRONMENT & PROTECTION	
Ingress Protection	IP20
Operating Temperature	-10°C to 50°C
Operating Altitude	Max. 4000m (Derating above 2000m)
Humidity	5% to 95% RH (Non-condensing)
Storage Temperature	-15°C to 60°C
Dimension (W × H × D)	295 × 140 × 468mm
Net Weight	12kg