

# Off-Grid Solar Inverter

## Single Phase - IP20 - High Frequency

Model: MR-SPF4000 / 6000 TWIN (Version 3)

### FEATURES

- Detachable LCD control module with various communications
- Maximum PV input current 27A
- Dual output for smart load management
- Built-in WiFi for mobile monitoring (Android/iOS App available)
- Supports USB On-the-Go function
- Reserved communication port (RS485, CAN-BUS or RS232) for BMS
- Battery independent design
- Battery equalization extends lifecycle
- User-friendly LCD operation
- Replaceable fan design for ease of maintenance



### SPECIFICATIONS

MODEL	MR-SPF4000 TWIN (Version 3)	MR-SPF6000 TWIN (Version 3)
<b>RATED POWER</b>	4000VA / 4000W	6000VA / 6000W
<b>INPUT</b>		
Nominal Input Voltage	230VAC	
Input Voltage Range (Selectable)	170 – 280VAC (For PC); 90 – 280VAC (For Home Appliances)	
Nominal Input Frequency	50Hz / 60Hz (Auto sensing)	
<b>OUTPUT</b>		
Output Voltage Regulation	230VAC ± 10%	
Nominal Output Frequency	50Hz / 60Hz	
Waveform	Pure sine wave	
Transfer Time	10ms (For PC); 20ms (For Home Appliances)	
Surge Power	8000VA	12000VA
Peak Efficiency	95% at Line mode, 93% at Inverter mode	
<b>BATTERY</b>		
Nominal Battery Voltage	24VDC	48VDC
Floating Charging Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
<b>AC CHARGING &amp; MPPT SOLAR CHARGING</b>		
AC Charging Algorithm	3 step	
Max. PV Array Power	5000W	6000W
MPPT Operating Voltage Range	60 – 450VDC	
Max. PV Array Open Circuit Voltage	500VDC	
Max. PV Input Current	27A	
Max. AC Charging Current	100A	
Max. Charging Current	120A (AC charging plus solar charging)	
<b>PHYSICAL &amp; COMMUNICATION</b>		
Dimension, D x W x H (mm)	115 × 300 × 435	
Net Weight (kg)	9	10
Communication Interface	USB, RS232, BMS, WiFi, Dry-contact	
<b>ENVIRONMENT</b>		
Humidity	5% – 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Specifications are subject to change without notice, all product drawings are for reference only.