

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)
RATED POWER	4000VA / 4000W		6000VA / 6000W
INPUT			
Nominal Input Voltage	230VAC		
Input Voltage Range (Selectable)	170 – 280VAC (For PC); 90 – 280VAC (For Home Appliances)		
Nominal Input Frequency	50Hz / 60Hz (Auto sensing)		
OUTPUT			
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		
BATTERY			
Nominal Battery Voltage	24VDC	48VDC	
Floating Charging Voltage	27VDC	54VDC	
Overcharge Protection	33VDC	63VDC	
AC CHARGING & MPPT SOLAR CHARGING			
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)		
PHYSICAL & COMMUNICATION			
Dimension, D x W x H (mm)	115 × 300 × 435		
Net Weight (kg)	9	10	
Communication Interface	USB, RS232, BMS, WiFi, Dry-contact		
ENVIRONMENT			
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.