

# Off-Grid Solar Inverter

Single Phase - IP20 - High Frequency

Model: MR-SPF6000K

## FEATURES

- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- Zero (0ms) transfer time to protect mission-critical loads
- High PV input voltage range
- Detachable LCD control module with multiple communications
- Selectable high power charging current
- Built-in Wi-Fi for mobile monitoring (Android/iOS App available)
- Configurable AC/Solar input priority via LCD setting
- Reserved communication port for BMS (RS485 or CAN-BUS or RS232)
- USB On-the-Go function
- Parallel operation up to 9 units



## SPECIFICATIONS

<b>MODEL</b>	<b>MR-SPF6000K</b>
<b>RATED POWER</b>	6000VA / 6000W
<b>PARALLEL CAPABILITY</b>	Yes, 9 units
<b>INPUT</b>	
Nominal Input Voltage	230VAC
Input Voltage Range	110 – 280VAC
Nominal Input Frequency	50Hz / 60Hz (Auto sensing)
<b>OUTPUT</b>	
Output Voltage Regulation	230VAC ± 5%
Nominal Output Frequency	50Hz / 60Hz
Waveform	Pure sine wave
Transfer Time	0ms (Line mode to Battery mode); 4ms (Inverter mode to Battery mode)
Surge Power	2* rated power for 5 seconds
Peak Efficiency	94% (Line mode), 92% (Battery mode), 98% (ECO/Bypass mode)
Harmonic Distortion	≤3% THD (Linear Load); ≤5% THD (Non-linear Load)
<b>BATTERY</b>	
Nominal Battery Voltage	48VDC
Floating Charging Voltage	54VDC
Overcharge Protection	66VDC
<b>AC CHARGING &amp; MPPT SOLAR CHARGING</b>	
AC Charging Algorithm	3 step
Max. PV Array Power	6000W
MPPT Operating Voltage Range	120 – 430VDC
Max. PV Array Open Circuit Voltage	500VDC
Max. PV Input Current	27A
Max. AC Charging Current	120A
Max. Charging Current	120A (AC charging plus solar charging)
<b>PHYSICAL &amp; COMMUNICATION</b>	
Dimension, D x W x H (mm)	140 × 295 × 468
Net Weight (kg)	12
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.