

# MARSRIVA



## Off-Grid Pure Sine Wave Solar Inverter

5000W

The features and specifications of 5000W are for reference only.  
For elaborate information about 3000W, please check its specification.

# 5000W Solar Inverter

**10000VA**

Surge Protection

**6000W** Max.

PV Array Power

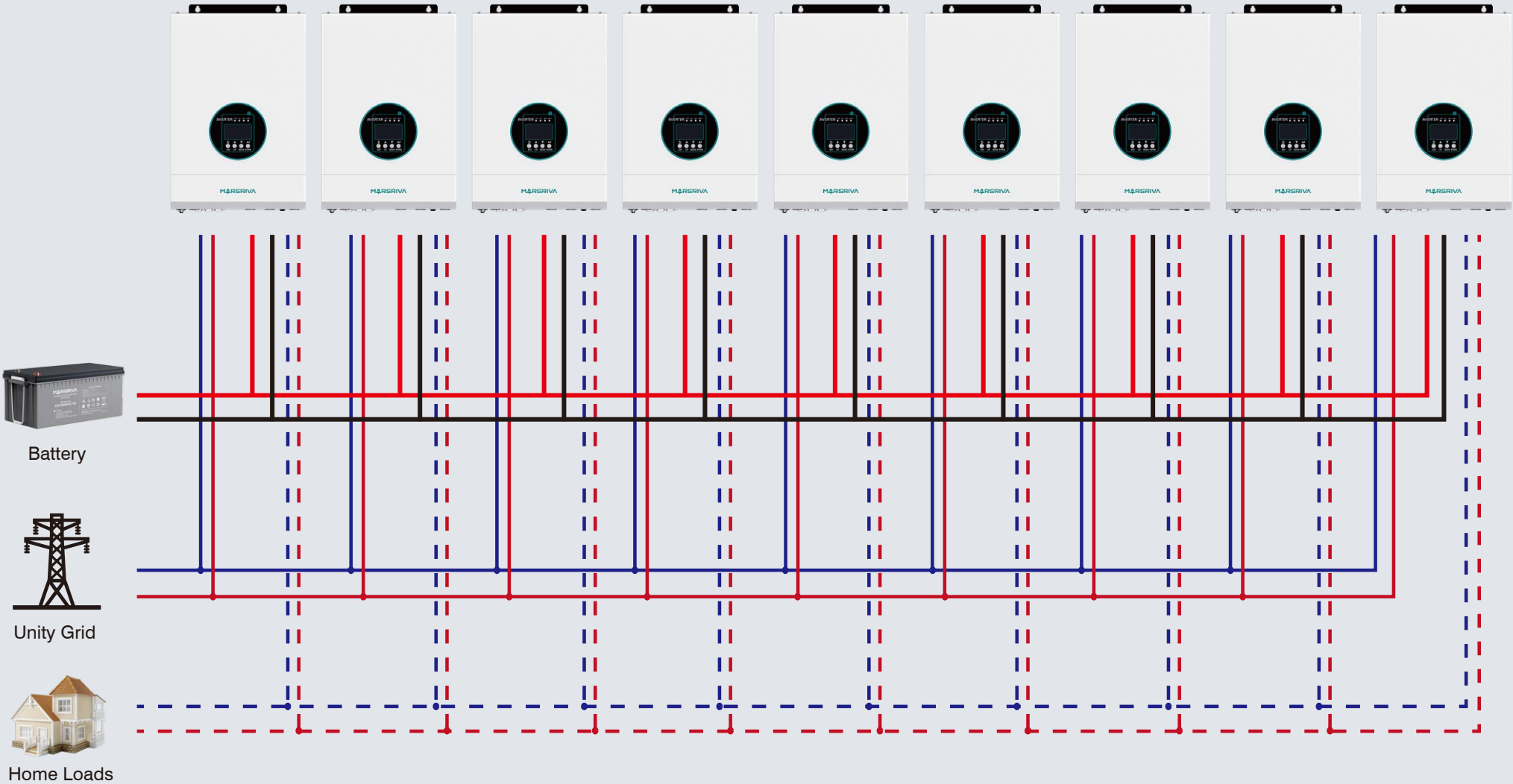
**450VDC** Max.

PV Array Open Circuit Voltage



# Parallel Operation up to 9 Units

Optional for 5KVA, widely used for home and commercial applications.



# Three Models Charge Source Priority

- **Solar First**

Solar energy will charge battery priority,  
Utility will charge battery only when solar energy is not available

- **Solar and Utility**

Solar energy and utility will both charge batter

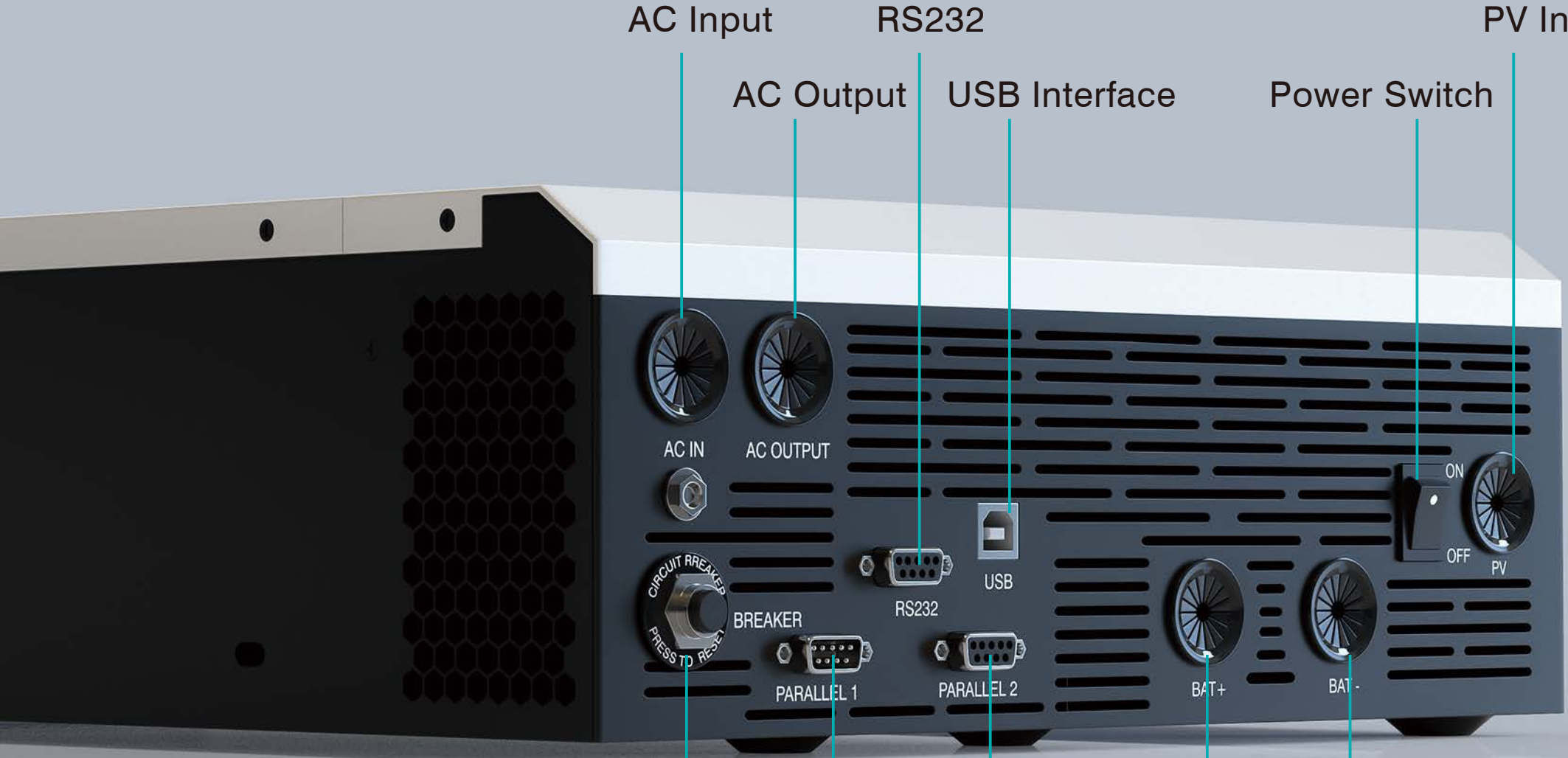
- **Only Solar**

Solar energy will be the only charger source  
no matter utility power is available or not.





# Product Description



AC Input

RS232

PV In

AC Output

USB Interface

Power Switch

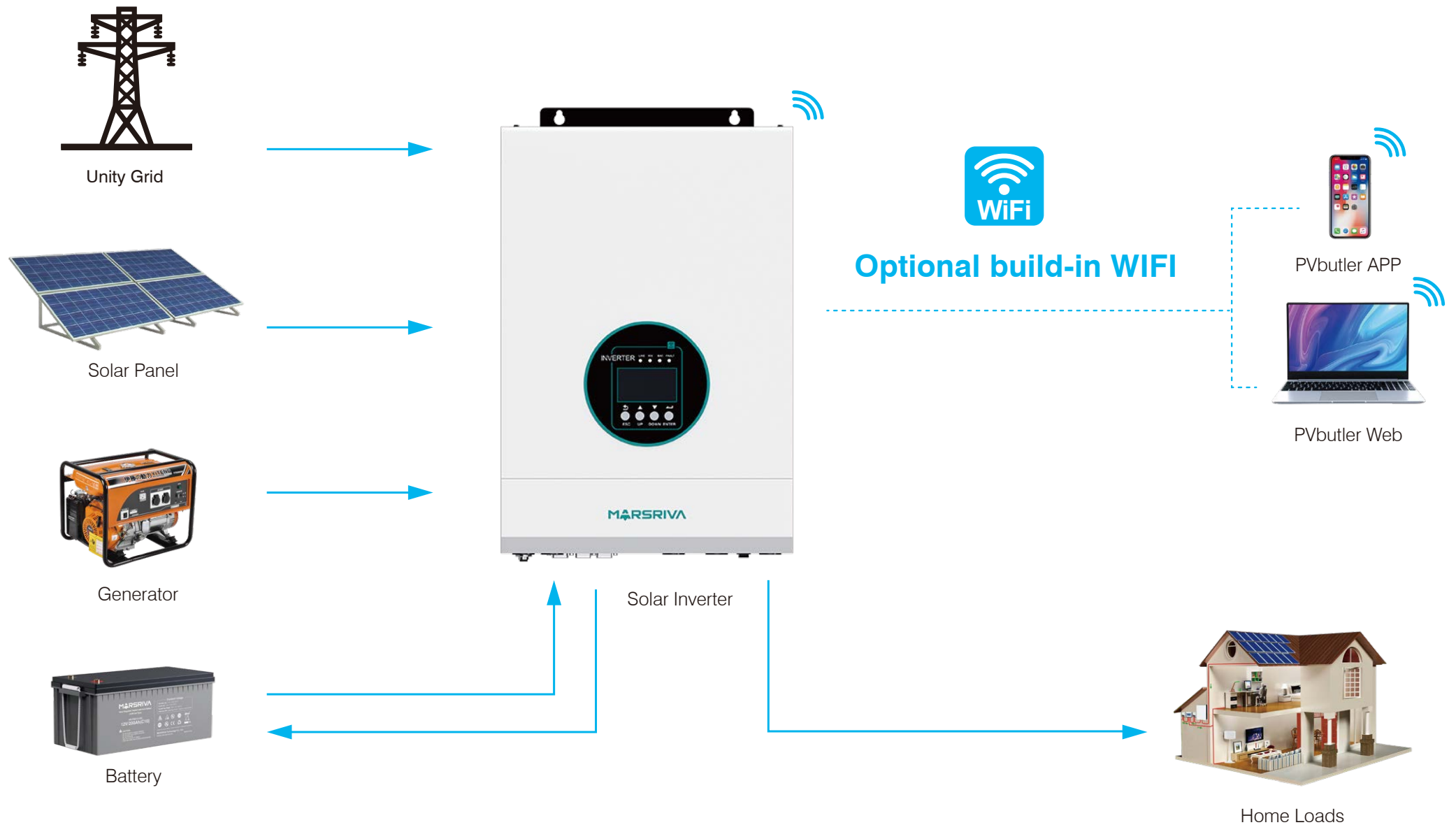
Input Circuit Breaker

External Battery Connectors

Parallel Communication Port (Only for Parallel Model)

# Output 220V AC Power

Work with 48V lead-acid battery/gel battery/lead carbon battery/lithium battery etc.



## Specification

MODEL	MR-SPF3000	MR-SPF5000
Nominal Battery System Voltage	48VDC	48VDC
<b>INVERTER OUTPUT</b>		
Rated Power	3000VA \ 3000W	5000VA \ 5000W
Parallel Capaility		9 Units
Surge Power	6000W	10000W
Waveform	Pure sine wave	
AC Voltage Regulation (Batt.Mode)	230VA $\pm$ 5%	
Inverter Efficiency(Peak)	93%	
Transfer Time	10ms(For Personal Computers) \ 20ms(For Home Appliances)	
<b>AC INPUT</b>		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC (For Personal Computers) ; 90~280VAC (For Home Appliances)	
Frequency Range	50Hz \ 60Hz (Auto sensing)	
<b>BATTERY</b>		
Normal voltage	48VDC	48VDC
Floating Charge Voltage	54VDC	54VDC
Overcharge Protection	60VDC	60VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Maximum PV Array Open Circuit Voltage	450VDC	450VDC
Maximum PV Current	22A	22A
PV Array MPPT Voltage Range	120~430VDC	120~430VDC
Maximum PV Array Power	4000W	6000W
Maximum Solar Charge Current	80A	80A
Maximum Efficiency	98%	98%
Maximum AC Charge Current	60A	80A
Maximum Charge Current	80A	80A
<b>PHYSICAL</b>		
Machine Dimensions (W*H*D)(mm)	450*300*110	450*300*110
Net Weight(kg)	7	7.8
Communication Interface	USB / RS232 / Dry-contact (optional)	
<b>OPERATING ENVIRONMENT</b>		
Humidity	5% to 95% Relativ Humidity (Non-condensing)	
Operating Temperature	0°C~55°C	
Storage Temperature	-15°C~60°C	

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