

R4 OFF-GRID SOLAR INVERTER

Run your load with or without battery

Battery reverse connect protection, the charge and discharge are controlled by intelligent software to improve the battery life.



Pure Sine
Wave



Works with &
Without Battery



Max MPPT Range
500VDC



Wifi
Monitoring

**LIFETIME
WARRANTY**

24 Months Free Repair / Replacement
Life Time Free Service Warranty

TECHNICAL SPECIFICATION

MODEL	SM-R4-M IV-3.2K-24	SM-R4-M IV-5.2K-48
Rated Power	3200VA / 3200W	5200VA / 5200W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%	
Surge Power	6400VA	10400VA
Efficiency (Peak) PV to Inverter	97%	
Efficiency (Peak) Battery to Inverter	93%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	32 VDC	63 VDC
SOLAR CHARGING & AC CHARGER		
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum PV Array Power	4000 W	5000 W
MPP Range @ Operating Voltage	120~450 VDC	120~450 VDC
Maximum Solar Charge Current	80 A	80 A
Maximum AC Charge Current	60A	60A
Maximum Charge Current	80A	80A
Maximum Efficiency	98%	
PHYSICAL		
Dimension, D x W x H (mm)	100 x 300 x 440	
Net Weight (kgs)	9.5	10
Communication Interface	USB/RS232	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	



Wifi Stick
(Optional)



- Pure sine wave solar inverter
- Output power factor-1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimization of battery performance, equalization and lifecycles
- Cold start function

Anti-Dust Kit

After installing this anti-dust kit, inverter will automatically detect this kit and activate internal thermal sensor to adjust internal temperature. By virtue of the dustproof design, it dramatically increases product reliability in harsh environment.



Anti Dust Kit

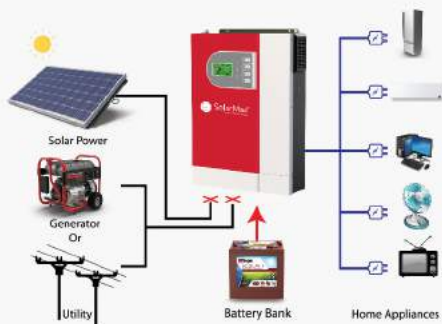
System Diagram

Operation with battery Connected

1 Solar Power and AC Power Available

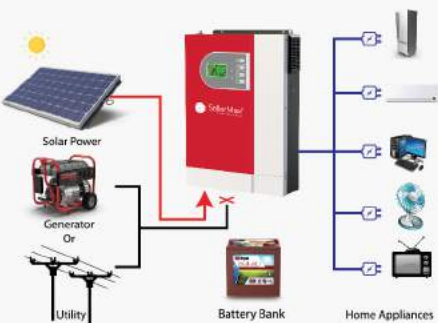


2 Solar Power and AC Power Not Available

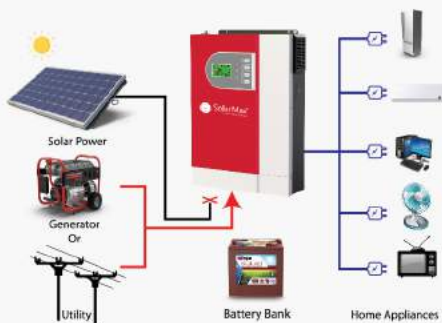


Operation without battery Connected

3 Solar Power Available



4 AC Power Available





SOLARMAX® is a Brand of Power Highway, We are providing the cost-effective renewable energy products to corporate, residential and commercial sectors across the country Since 2007.

