

# OFF GRID HYBRID INVERTER

**ISolar-SMG-III-6.2KW-Wifi**  
**220V / 230Vac Output**



RS232 / RS485



MPPT  
60/100/120A



PV 60-500Vdc



No Battery Mode



Lithium Battery  
Activation



High Efficiency



Pure sine wave

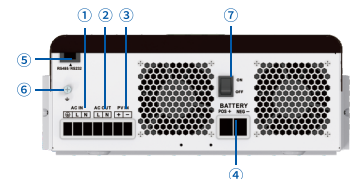


WiFi



## Product Features

- Lithium battery activation function by PV or Utility
- Compatible work with lifepo4 battery via Rs485
- Pure sine wave
- Power factor 1.0
- PV input Voltage 60Vdc-500Vdc
- Built-in MPPT 60A / 100A / 120A
- Capable to work without battery
- Detachable dust cover for harsh environment
- WiFi remote monitoring optional
- Support multiple output priority: UTL, SOL, SBU, SUB
- EQ function to optimize battery performance and extend lifecycle



1. AC input
2. AC output
3. PV input
4. Battery input
5. RS232 / RS485 communication port
6. Grounding
7. Power on/off switch

# Technical Data

MODEL	ISolar-SMG-III-6.2KW-Wifi
Capacity	6.2KVA/6.2KW
Parallel Capability	NO
Lithium Battery activation	YES ( By PV or Utility)
Lithium Battery communication	YES(RS485)
<b>INPUT</b>	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)
Frequency	50/60 Hz(Auto sensing)
<b>OUTPUT</b>	
Nominal Voltage	220/230VAC±5%
Surge Power	12400VA
Frequency	50/60Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency(PV to INV)	96%
Peak Efficiency(Battery to INV)	93%
Overload Protection	5s@ >= 140% load; 10s@110%~140% load
Crest Factor	3:1
Admissible Power Factor	0.6~1 (inductive or capacitive)
<b>BATTERY</b>	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC / CV
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Solar Charger Type	MPPT
Max.PV Array Power	6500W
Max.PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	60VDC~500VDC
Max.Solar Input Current	27A
Max.Solar Charge Current	120A
Max.AC Charge Current	80A
Max.Charge Current (PV+AC)	120A
<b>PHYSICAL</b>	
Dimensions,D x W x H(mm)	438*295*105
Package Dimensions,D x W x H(mm)	560*375*185
Net Weight(Kg)	9
Communication Interface	RS232+RS485
<b>ENVIRONMENT</b>	
Operating Temperature Range	(-10°C to 50°C)
Storage Temperature	(-15°C ~ 50°C)
Humidity	5% to 95% Relative Humidity ( Non-condensing )

Product specifications are subject to change without further notice.