

OFF GRID HYBRID INVERTER

ISolar-SMG-II-2KW-12V WiFi
PV 30~160Vdc



RS232 / RS485



MPPT 60A



PV 30-160Vdc



Lithium Battery
Activation



PF=1.0



High Efficiency



Pure sine wave

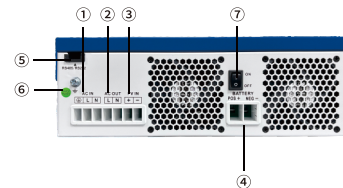


WiFi



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 30Vdc~160Vdc
- Built-in MPPT 60A
- Detachable dust cover for harsh environment
- WiFi remote monitoring optional
- Support multiple output priority: UTL, SOL, SBU



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-II-2KW-12V WiFi
Capacity	2KVA/2KW
Parallel Capability	NO
Lithium Battery activation	YES (By PV only)
Lithium Battery communication	YES(RS485)
INPUT	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)
Frequency	50/60 Hz(Auto sensing)
OUTPUT	
Nominal Voltage	220/230VAC±5%
Surge Power	3000VA
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@100%~140% load
Crest Factor	3:1
Admissible Power Factor	0.6~1 (inductive or capacitive)
BATTERY	
Battery Voltage	12V
Floating Charge Voltage	13.5V
OverCharge Protection	14.1V
Charging Method	CC / CV
SOLAR CHARGER & AC CHARGER	
Solar Charger Type	MPPT
Max.PV Array Power	900W
Max.PV Array Open Circuit Voltage	160VDC
PV Array MPPT Voltage Range	30VDC~160VDC
Max.Solar Input Current	50A
Max.Solar Charge Current	60A
Max.AC Charge Current	80A
Max.Charge Current(PV+AC)	120A
PHYSICAL	
Dimensions,D x W x H(mm)	358x295x105.5
Package Dimensions,D x W x H(mm)	465x380x175
Net Weight(Kg)	6.00
Communication Interface	RS232/RS485
ENVIRONMENT	
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.