

HYBRID SOLAR INVERTOR

Sm-6kw Series



6KW | 500V | WiFi | Dual output

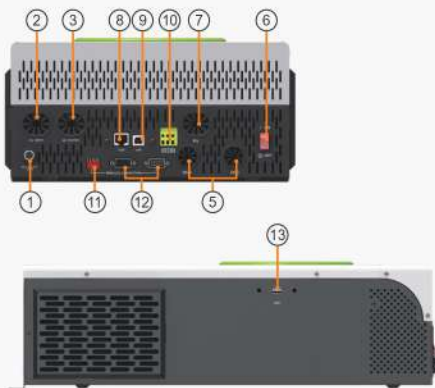
Sm-6kw is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size. Sm-6kw Series can run without battery. The Maximum PV array open circuit voltage can reach 500V and MPPT voltage is 90~430V, which can help customers make full use of solar energy.



- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Built-in MPPT solar charge controller
- MAX PV Array Open Circuit Voltage: 500V
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB, RS485 monitoring function
- Parallel operation with up to 3 units
- WIFI remote monitoring (optional)
- With BMS lithium battery communication function
- With AC/PV lithium battery activation function
- Dual outputs for smart load management

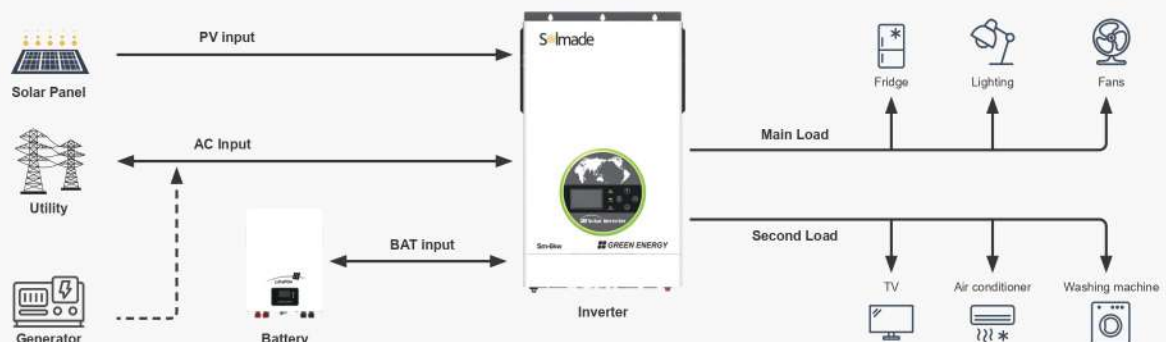
Back panel description

6KW



1. Circuit breaker
2. AC Input
3. AC Output
4. FAN
5. Battery Input
6. Power On/Off Switch
7. PV Input
8. RS-485/CAN Communication port
9. USB
10. Dry Contact
11. Parallel switch (only for parallel model)
12. Parallel communication port (only for parallel model)
13. Wifi port

Solar system connection



MODEL	Sm-6kw
Nominal Battery System Voltage	48VDC
INVERTER OUTPUT	
Rated Power	6000VA/6000W
Surge Power	12000W
Waveform	Pure sine wave
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)
Inverter Efficiency(Peak)	90%
Transfer Time	10ms (UPS / VDE4105) / 20ms (APL)
AC INPUT	
Voltage	230VAC±5%
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)
Frequency Range	50Hz / 60Hz(Auto sensing)
BATTERY	
Normal voltage	48VDC
Floating Charge Voltage	54.8VDC
Overcharge Protection	60VDC
SOLAR CHARGER & AC CHARGER	
Maximum PV Array Open Circuit Voltage	500VDC
Maximum PV input Current	27A
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)
Maximum PV Array Power	6000W
PV Array MPPT Voltage Range	120~430 VDC
Maximum Solar Charge Current	120A
Maximum AC Charge Current	100A
Maximum Charge Current	120A
MECHANICAL SPECIFICATIONS	
Machine Dimension (W*H*D)(mm)	309*505*147
Package Dimension (W*H*D)(mm)	603*260*400
N.W(kg)	12.9
G.W(kg)	13.8
OTHER	
Humidity	5% to 95% Relative humidity (Non-condensing)
Operating Temperature	0°C~50°C
Storage Temperature	-15℃ ~60℃
CERTIFICATION & STANDARDS	
CE	