

HYBRID SOLAR INVERTOR

Sm-4kw Series



4KW | 500V | WiFi | Dual output

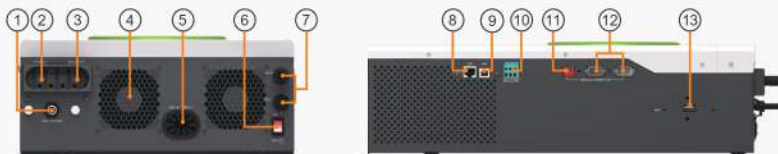
Sm-4kw is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterrupted power support in portable size. Sm-4kw Series can run without battery. The Maximum PV array open circuit voltage can reach 500V and MPPT voltage is 90~430V, which 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

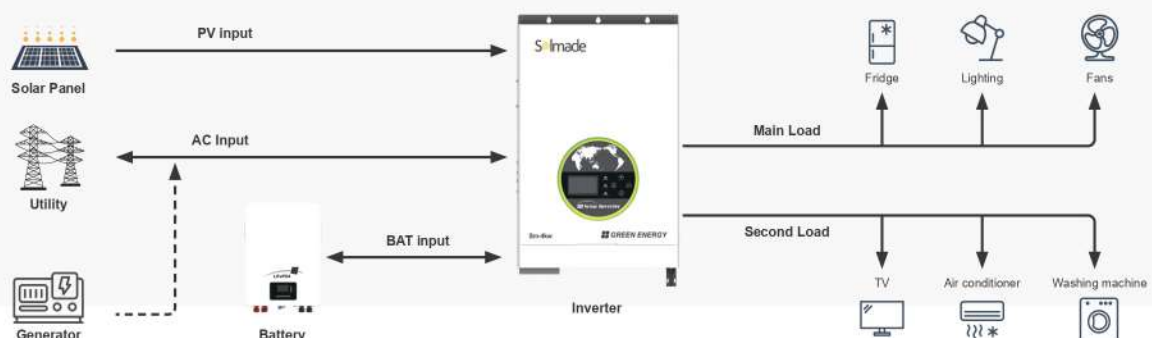
Back panel description

■ 4KW



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

Solar system connection



MODEL	Sm-4kw
Nominal Battery System Voltage	24VDC
INVERTER OUTPUT	
Rated Power	4000VA/4000W
Surge Power	8000W
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	24VDC
Floating Charge Voltage	27.4VDC
Overcharge Protection	30VDC
SOLAR CHARGER & AC CHARGER	
Maximum PV Array Open Circuit Voltage	500VDC
Maximum PV input Current	18A
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)
Maximum PV Array Power	5000W
PV Array MPPT Voltage Range	90~430 VDC
Maximum Solar Charge Current	100A
Maximum AC Charge Current	80A
Maximum Charge Current	100A
MECHANICAL SPECIFICATIONS	
Machine Dimension (W*H*D)(mm)	322*486*134
Package Dimension (W*H*D)(mm)	600*230*420
N.W(kg)	10.6
G.W(kg)	12
OTHER	
Humidity	5% to 95% Relative humidity (Non-condensing)
Operating Temperature	0°C~50°C
Storage Temperature	-15℃ ~60℃
CERTIFICATION & STANDARDS	

CE