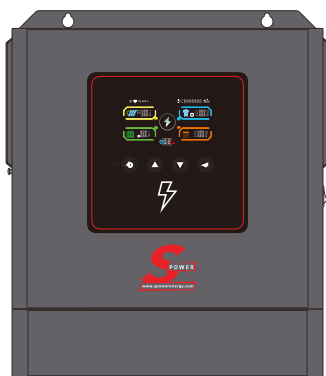


IP21 Solar Inverters-SP Series

4.2KW 220V / 230Vac Output

Features



- Dual output for smart load management
- Lithium battery activation function by PV or Utility
- Colored LCD with RGB lights
- Compatible work with LiFePO4 battery via RS485
- PV Input 500Vdc Max
- Built-in MPPT100A
- Capable to work without battery
- Detachable dust cover for harsh environment
- Built-in WiFi remote monitoring optional
- Support multiple output priority: UTL, SOL, SBU, SUB
- EQ function to optimize battery performance and extend lifecycle

RGB
LIGHTS

RGB Lights

LCD

Colored LCD

Dual
Outputs

Dual Outputs

No
Battery Mode

No Battery Mode

PV 60-500Vdc

PV 60-500Vdc

WiFi Optional

WiFi Optional

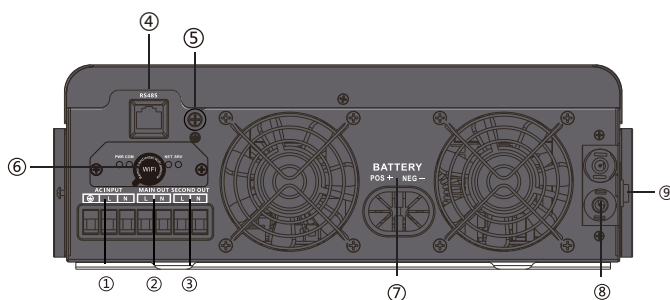
100A MPPT

100A MPPT

BMS

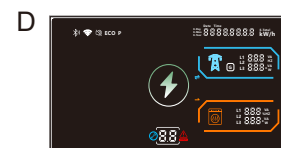
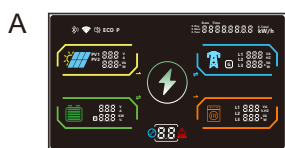
Lithium Battery Activation

Bottom view



1. AC input
2. Main output
3. Second output
4. RS485 communication port
5. Grounding
6. Built-in wifi
7. Battery input
8. PV input
9. Power on / off switch

Working Mode



Technical Data

MODEL	SP-4200-24 PRO
PHASE	1-Phase In /1-Phase Out
Maximum PV Input Power	6200W
Maximum Main Output Power	4200VA/4200W
Maximum Second Output Power	4200VA/4200W
Maximum Total Output Power	4200VA/4200W
Parallel Capability	NO
Lithium Battery activation	YES (By PV or Utility)
Lithium Battery communication	YES(RS485)
WIFI	YES
AC INPUT	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)
Frequency	50/60 Hz (Auto sensing)
AC OUTPUT	
Nominal Voltage	220/230VAC±5%
Surge Power	8400VA
Frequency	50/60 Hz
Waveform	Pure Sine wave
Dual Outputs	Yes
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency(PV to INV)	96%
Overload Protection	5s@ > =140% load; 10s@110%~140% load
Admissible Power Factor	0.6~1 (inductive or capacitive)
BATTERY	
Battery Voltage	24VDC
Floating Charge Voltage	27VDC
OverCharge Protection	33VDC
Charging Method	CC/CV
SOLAR CHARGER & AC CHARGER	
Solar Charger TYPE	MPPT
Max.PV Array Power	6200W
Max. PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	60VDC~500VDC
Max. Solar Input Current	1 / 27A
Max. Solar Charge Current	120A
Max. AC Charge Current	120A
Max. Charge Current	120A
PHYSICAL	
Dimensions, D x W x H(mm)	371.8x342x116.5
Package Dimensions, D x W x H(mm)	450x385x205
Net Weight (Kgs)	7.6
Gross weight(Kgs)	8.5
Communication Interface	RS485(RJ45)/RS232(RJ45)
LCD	Colorful Screen+RGB Light
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.