

BSM Series

Input Power 4200W

4.2KW

IP21 Solar Inverters



Max. PV Input Power 6200W



Dual Outputs



No Battery Mode



WiFi Standard

BMS

Lithium Battery BMS Activation



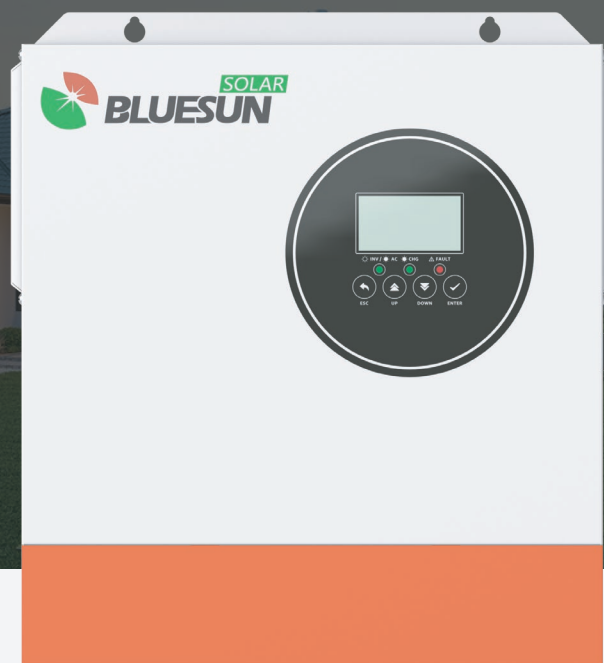
Anti-shock Design Terminal



PV 60-500Vdc



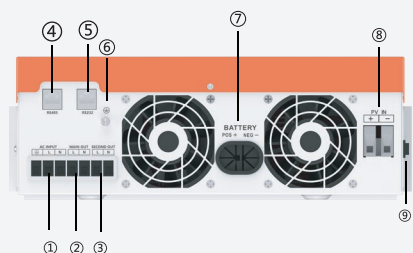
RS232 RS485



Features

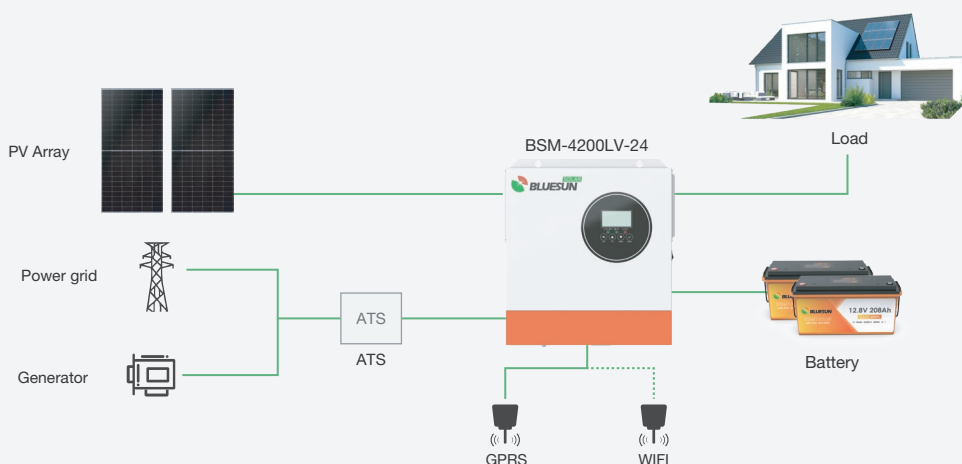
- Dual output for smart load management
- Lithium battery activation function by PV or Utility
- Compatible work with LiFePO4 battery via RS485
- PV Input 500Vdc Max
- Built-in MPPT 100A/120A
- Capable to work without battery
- Detachable dust cover for harsh environment
- WiFi remote monitoring optional
- Support multiple output priority: UTL, SOL, SBU, SUB
- EQ function to optimize battery performance and extend lifecycle

Bottom View



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

System Diagram





BSM-4200LV-24

Models

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	Standard

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 $\pm 5\%$
Surge Power	8400VA
Frequency	50/60Hz
Waveform	Pure Sine Wave
Dual Outputs	Yes
Transfer Time	10ms (For Personal Computer); 20ms (For Home Appliances)
Peak Efficiency	94%
Overload Protection	5s ($\geq 140\%$ load); 10s (100%-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)	478x408x195
Net Weight (Kgs)	7.9
Gross Weight (Kgs)	8.9
Communication Interface	RS485 (RJ45) / RS232 (RJ45)

ENVIRONMENT

Operating Temperature Range	-10°C ~ 50°C
Storage Temperature	-15°C ~ 60°C
Humidity	5% to 95% Relative Humidity (Non-condensing)
Ingress Protection	IP21
Warranty	18 Months

Note: Product specifications are subject to change without further notice.

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*Release BSM Series-2025-12-Rev01-EN