

BSM Series

Input Power 7500W

5.5KW

IP21 Solar Inverters



MPPT

99.9% Efficiency



Dual Outputs



No Battery Mode



Packaging Includes WiFi

BMS

Li-ion Battery BMS Communication



Parallel 6 units



Max. PV Input Power 7500W

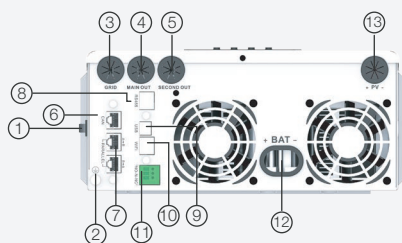


CAN RS485

Features

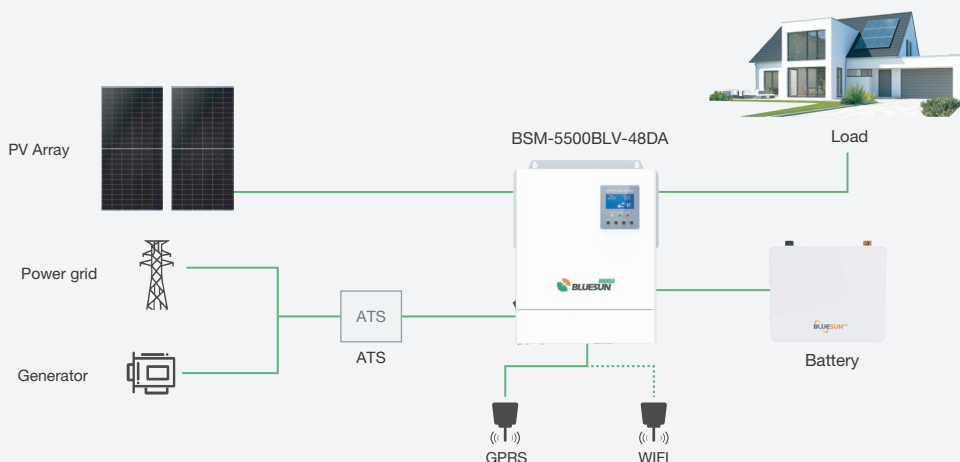
- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available
- 360 degrees of security from hardware to software
- Multiple safety approvals available
- Support for many types of batteries
- Supports Li-ion battery BMS communication
- Outputs high-quality pure sine wave AC power
- Reliable output for long periods at rated power
- Supports a maximum of 6 units in parallel
- Industrial design with a modern aesthetic look
- Easy to install and simple to use
- Exclusive Li-ion battery BMS dual activation
- Support for remote monitoring of operating

Bottom View



- | | |
|---------------------------|-----------------------------|
| 1. Power on / off switch | 7. Parallel |
| 2. Grounding | 8. RS485 communication port |
| 3. AC input | 9. USB communication port |
| 4. AC Main output | 10. WiFi |
| 5. AC Second output | 11. Dry contact |
| 6. CAN communication port | 12. Battery input |
| | 13. Solar input |

System Diagram



Power on / off switch

Parallel
6 Units Max



Load



MODEL	BSM-5500BLV-48DA	CAN BE SET
INVERTER		
Rated Output Power	5500W	
Max. Peak Power	11000VA	
Rated Output Voltage	230Vac	√
Load Capacity of Motors	4HP	
Rated AC Frequency	50Hz/60Hz ± 0.3Hz	√
Waveform	Pure Sine Wave	
Switch Time	10ms (typical)	
BATTERY		
Battery Type	Lead-acid or lithium batteries	√
Rated Battery Voltage	48V	
Voltage Range	40~58Vdc	√
Max. Grid/Generator Charging Current	80A	√
Max. Hybrid Charging Current	100A	√
PV INPUT		
No. of MPPT Trackers	1	
Max. PV Input Power	7500W	
Max. Input Current	30A	
Max. Open Circuit Voltage	500Vdc	
MPPT Voltage Range	60~450Vdc	
GRID / GENERATOR INPUT		
Input Voltage Range	90Vac~280Vac (±2%)	√
Input Frequency Range	50Hz/60Hz(auto-detect)	
Bypass Overload Current	40A	
EFFICIENCY		
MPPT Tracking Efficiency	99.9%	
Max. Battery Inverter Efficiency	>92%	
GENERAL DATA		
Dimension	359.5x290.2x133mm	
Weight	8.5kg	
Protection Degree	IP20, Indor Only	
Operating Temperature Range	-15°C ~ 55°C, >45°C derate	
Noise	≤60dB	
Cooling Method	Forced air cooling with adjustable air speed	
Warranty	1.5 Years	
COMMUNICATION		
Communication Interface	RS485 / USB / Wi-Fi / Dry contact	√
CERTIFICATION		
Safety	IEC62109-1, IEC62109-2	
EMC	EN61000-6-1, EN61000-6-3	

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