

BSM Series

11KW Hybrid Solar Inverter

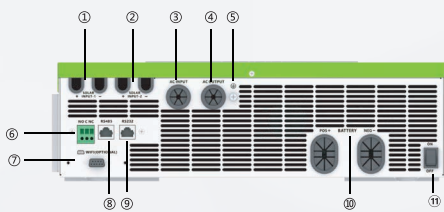


-  **Anti-shock design terminal**
-  **WIFI Optional**
-  **Pure sine wave**
-  **PF=1.0**
-  **BMS**
Lithium Battery Activation
-  **MPPT**
Dual MPPT
-  **PV 60-500VDC**
-  **RS232 RS485**

Features

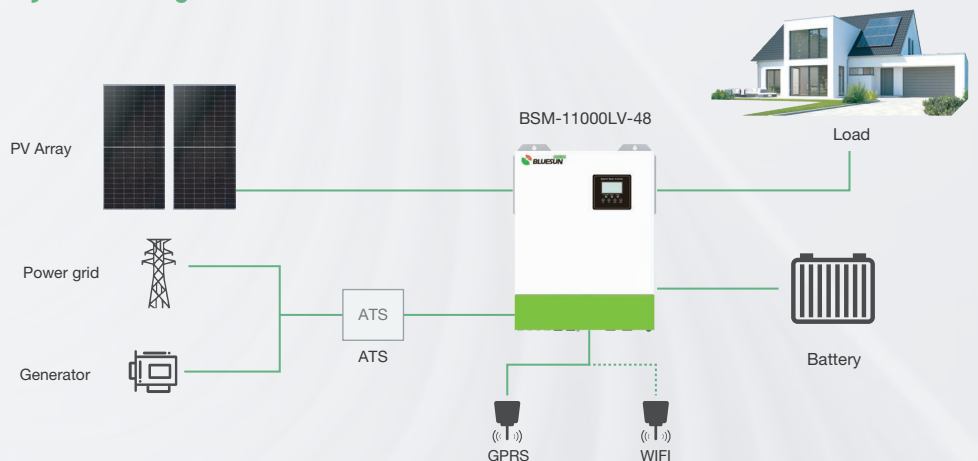
- Built-in 2 MPPT
- Lithium battery activation function by PV or Utility
- Compatible work with LiFePO4 battery via RS485
- Pure Sine Wave
- Power factor 1.0
- PV Input 500Vdc Max
- Built-in MPPT 140A/160A
- Capable to work without battery
- Detachable dust cover for harsh environment
- Wifi remote monitoring optional
- Support multiple output priority: UTL,SOL,SBU,SUB
- EQ function to optimize battery performance and extend lifecycle

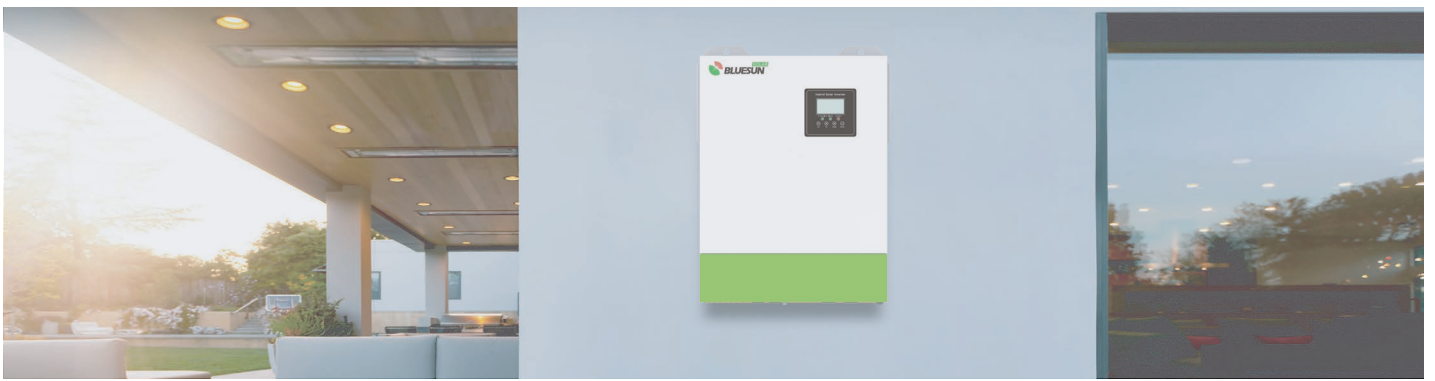
Bottom view



- | | |
|--------------------|----------------------------|
| 1. Solar input - 1 | 7.WiFi (Optional) |
| 2. Solar input - 2 | 8.RS485 communication port |
| 3. AC input | 9.RS232 communication port |
| 4. AC output | 10.Battery input |
| 5. Grounding | 11.Power on / off switch |
| 6. Dry contact | |

System Diagram





| | |
|---------------------------------------|--|
| MODEL | BSM-11000LV-48 |
| Capacity | 11KVA/11KW |
| Maximum PV Input Power | 11KW |
| Maximum Total Output Power | 11KVA/11KW |
| Parallel Capability | NO |
| Lithium Battery Activation | YES(RS485) |
| Lithium battery Communication | YES(By PV or Utility) |
| INPUT | |
| Nominal Voltage | 230VAC |
| Acceptable Voltage Range | 170-280VAC(For personal Computer);90-280VAC(For Home Appliances) |
| Frequency | 50/60 Hz (Auto sensing) |
| OUTPUT | |
| Nominal Voltage | 220/230/240VAC |
| Surge Power | 22000VA |
| Frequency | 50/60 Hz |
| Waveform | Pure Sine wave |
| Transfer Time | 10ms(For personal Computer);20ms(For Home Appliances) |
| Peak Efficiency (PV to INV) | 96% |
| Peak Efficiency (Battery to INV) | 93% |
| Overload Protection | 5s@ >=140% load; 10s@110%~140% load |
| Crest Factor | 3:1 |
| Admissible Power Factor | 0.6~1 (inductive or capacitive) |
| Grid-tie Operation | NO |
| BATTERY | |
| Battery Voltage | 48VDC |
| Maximum Discharge Current | 220A |
| Floating Charge Voltage | 54VDC |
| OverCharge Protection | 63VDC |
| Charging Method | CC/CV |
| SOLAR CHARGER & AC CHARGER | |
| Solar Charger TYPE | MPPT |
| Max.PV Array Power | 5500W*2 |
| Max. PV Array Open Circuit Voltage | 500VDC |
| PV Array MPPT Voltage Range | 60VDC~500VDC |
| Max. Solar Input Current | 18A*2 |
| Max. Solar Charge Current | 160A |
| Max. AC Charge Current | 120A |
| Max. Charge Current | 160A |
| PHYSICAL | |
| Dimensions, D x W x H(mm) | 540*415*122 |
| Net Weight (Kgs) | 15 |
| Communication Interface | RS232/RS485/Dry-contact |
| LCD | YES |
| ENVIRONMENT | |
| Operating Temperature Range | -10°C to 50°C |
| Storage temperature | -15°C~ 60°C |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) |

*Product specifications are subject to change without further notice.

BLUESUN SOLAR CO.,LTD

Tel:+86 (158) 5821 3997 | Fax:+86 (551) 6565 2651 | E-mail:info@bluesunpv.com
Add:1499 Zhenxing Road, Shushan District,230031 Hefei,China



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