

# BSM Series

## 11KW Hybrid Solar Inverter



Dual Outputs



Parallel 6 units



Pure sine wave



PF=1.0

**BMS**

Lithium Battery Activation

**MPPT**

Dual MPPT



PV 60-500VDC

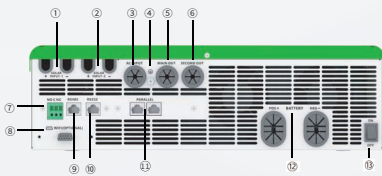


RS232RS485

### Features

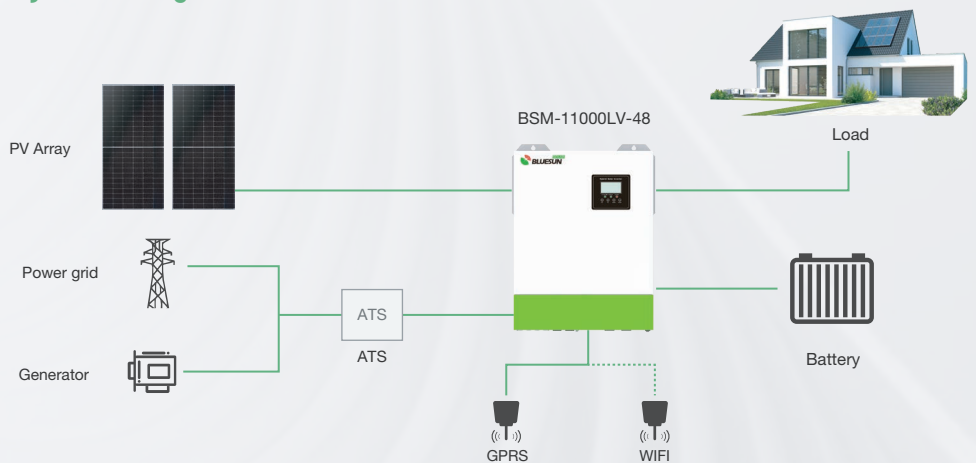
- Dual AC output
- Built-in 2 MPPT
- Parallel max up to 6 units
- Lithium battery activation function by PV or Utility
- Compatible work with LiFePO4 battery via RS485
- Pure Sine Wave
- Power factor 1.0
- PV Input 500Vdc Max
- Built-in MPPT 140A/160A
- Capable to work without battery
- Detachable dust 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



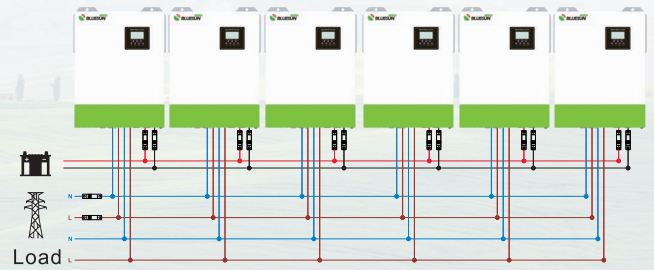
- |                    |                             |
|--------------------|-----------------------------|
| 1. Solar input - 1 | 7. Dry contact              |
| 2. Solar input - 2 | 8.WiFi (Optional)           |
| 3. AC input        | 9.RS485 communication port  |
| 4. Grounding       | 10.RS232 communication port |
| 5. AC Main output  | 11.Parallel                 |
| 6.AC Second output | 12.Battery input            |
|                    | 13.ON/OFF                   |

### System Diagram



Power on / off switch

# Parallel 6 Units Max



<b>MODEL</b>	<b>BSM-11000LV-48</b>
Capacity	11KVA/11KW
Maximum PV Input Power	11KW
Twin AC Output Function	YES
Maximum Main Output Power	11KVA/11KW
Maximum Second Output Power	5KVA/5KW
Maximum Total Output Power	11KVA/11KW
Parallel Capability	YES, 6units
Lithium Battery Activation	YES(RS485)
Lithium battery Communication	YES( By PV or Utility)
<b>INPUT</b>	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)
Frequency	50/60 Hz (Auto sensing)
<b>OUTPUT</b>	
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
<b>BATTERY</b>	
Battery Voltage	48VDC
Maximum Discharge Current	220A
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC/CV
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Solar Charger TYPE	MPPT
Max.PV Array Power	5000W*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
<b>PHYSICAL</b>	
Dimensions, D x W x H(mm)	540*415*122
Net Weight (Kgs)	15.5
Communication Interface	RS232/RS485/Dry-contact
LCD	YES
<b>ENVIRONMENT</b>	
Operating Temperature Range	-10°C to 55°C
Storage temperature	-15°C~ 60°C
Humidity	5% to 95% Relative Humidity (Non-condensing)

\*Product specifications are subject to change without further notice.

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