

BSM Series

11KW Hybrid Solar Inverter

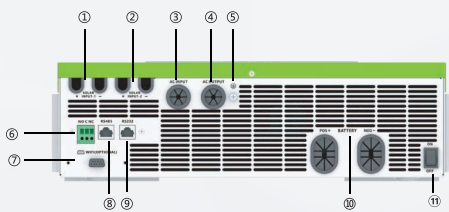


-  **Anti-shock design terminal**
-  **WIFI Optional**
-  **Pure sine wave**
-  **PF=1.0**
-  **BMS**
Lithium Battery Activation
-  **MPPT**
Dual MPPT
-  **PV 60-500VDC**
-  **RS232 RS485**

Features

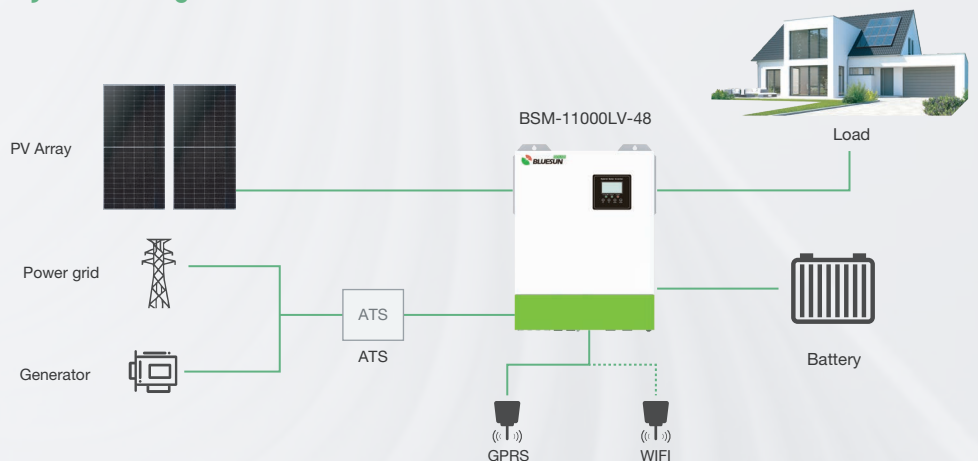
- Built-in 2 MPPT
- Lithium battery activation function by PV or Utility
- Compatible work with LiFePO4 battery via RS485
- Pure Sine Wave
- Power factor 1.0
- PV Input 500Vdc Max
- Built-in MPPT 140A/160A
- Capable to work without battery
- Detachable dust cover for harsh environment
- Wifi remote monitoring 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.

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