

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

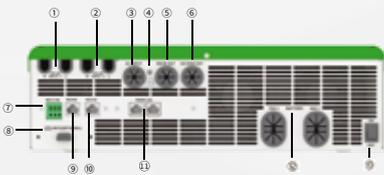


RS232 RS485

Features

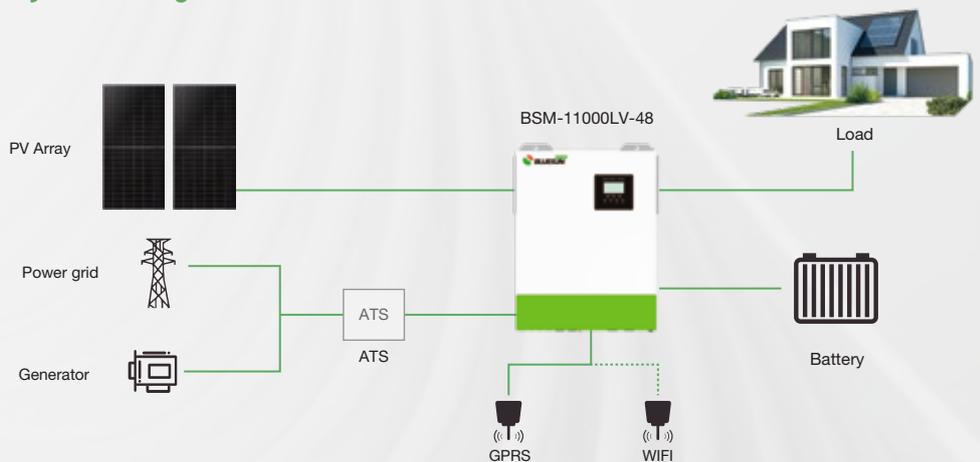
- Dual AC output
- Built-in 2 MPPT
- Parallel max up to 6 units
- Lithium battery activation function by PV or Utility
- Compatible work with LiFePO4 battery via RS485
- Pure Sine Wave
- Power factor 1.0
- PV Input 500Vdc Max
- Built-in MPPT 140A/160A
- Capable to work without battery
- Detachable dust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



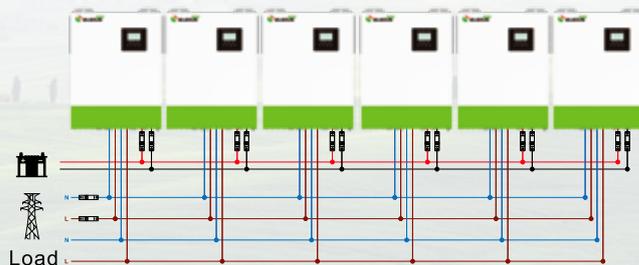
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|--------------------|-----------------------------|
| 1. Solar input - 1 | 7. Dry contact |
| 2. Solar input - 2 | 8.WiFi (Optional) |
| 3. AC input | 9.RS485 communication port |
| 4. Grounding | 10.RS232 communication port |
| 5. AC Main output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

System Diagram



Power on / off switch

Parallel 6 Units Max



MODEL	BSM-8500LV-48	BSM-11000LV-48
Capacity	8.5KVA/8.5KW	11KVA/11KW
Maximum PV Input Power	10KW	11KW
Twin AC Output Function	YES	
Maximum Main Output Power	8.5KVA/8.5KW	11KVA/11KW
Maximum Second Output Power	5KVA/5KW	
Maximum Total Output Power	8.5KVA/8.5KW	11KVA/11KW
Parallel Capability	YES, 6units	
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	17000VA	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	180A	220A
Floating Charge Voltage	54VDC	
OverCharge Protection	63VDC	
Charging Method	CC/CV	
SOLAR CHARGER & AC CHARGER		
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	140A	160A
Max. AC Charge Current	120A	
Max. Charge Current	140A	160A
PHYSICAL		
Dimensions, D x W x H(mm)	540*415*122	
Net Weight (Kgs)	14.5	15.5
Communication Interface	RS232/RS485/Dry-contact	
LCD	YES	
ENVIRONMENT		
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.