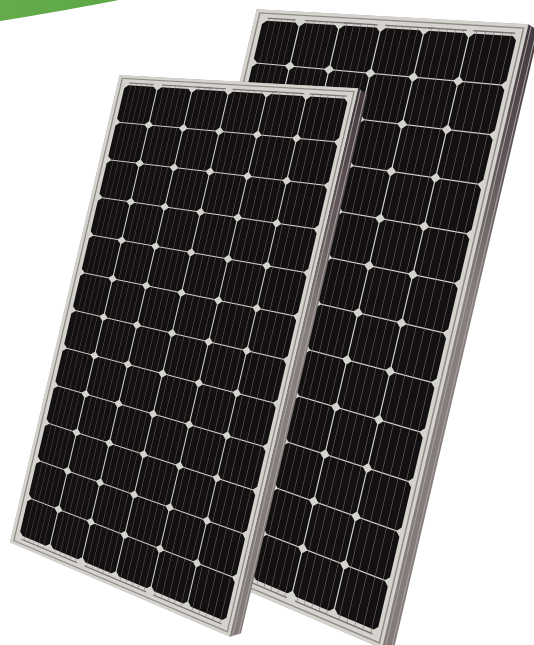


Your Best PV Supplier



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Strict Quality Control System

Stringent quality control is the cornerstone of Bluesun's manufacturing. Our customers have come to expect uncompromising quality in our products. To meet this expectation of high quality, we continue to invest in state-of-the-art equipment and professional training for our employees. We are proud of our product quality and their reliable performance even in the most extreme conditions.

ISO 9001: Quality Management System

ISO 14001: Environment Management System

OHSAS 18001: Occupational Health and Safety

IEC TS 62941: Design and manufacture of Crystalline Silicon Photovoltaic Modules

MATERIAL CONTROL

- Stringent Supplier Management
- Spot Check Every Feedstock Batch
- Supplier Quality Engineering
- Automatic Material Filtration and Sorting
- Proper Storage at Fixed Temperature and Humidity
- Incoming-material Quality Assurance

PRODUCTION CONTROL

- 300+ Quality Check Points
- 3*EL Tests
- In-process Quality Control

AFTER PRODUCTION

- Open Box Audit(OBA) Test

Bluesun Trustworthy Quality

Robust Quality Certified

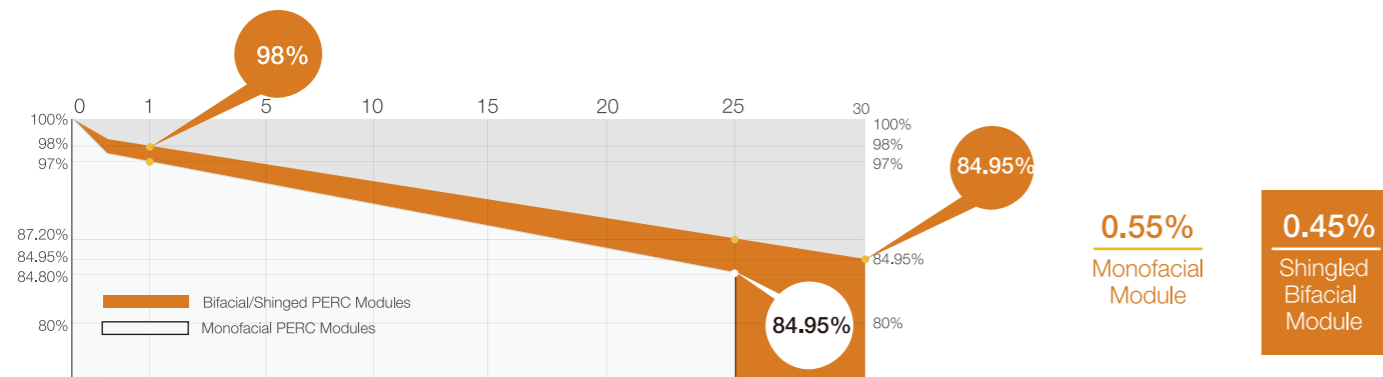
Bluesun is fully certified by professional third party testing organizations. Like TUV, UL. The modules can adapt to harsh climate environment.



Advanced Warranty Guarantee

FIRST-YEAR POWER WARRANTY OF $\geq 98\%$ FOR PV MODULES

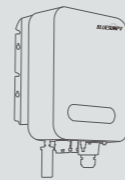
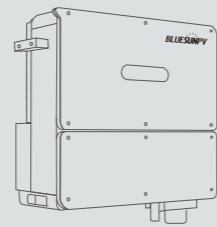
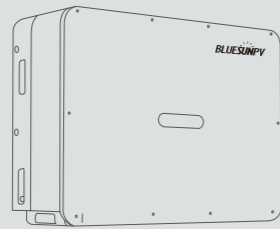
Based on the advanced mono wafer and anti-LID technology, Bluesun offers a first-year power warranty of $\geq 98\%$ for PV modules.



Bluesun Provides a 12-year product warranty (a 15-year warranty for Shingled products), and a 25-year performance warranty for all products (a 30-year warranty for Shingled/Bifacial products).

Through a comprehensive pre-sales and after-sales service system, Bluesun provides high-quality service to global customers.





BLUESUN String Inverters Brochure

More Intelligent PV Solutions

DC1500V High Power String Inverter

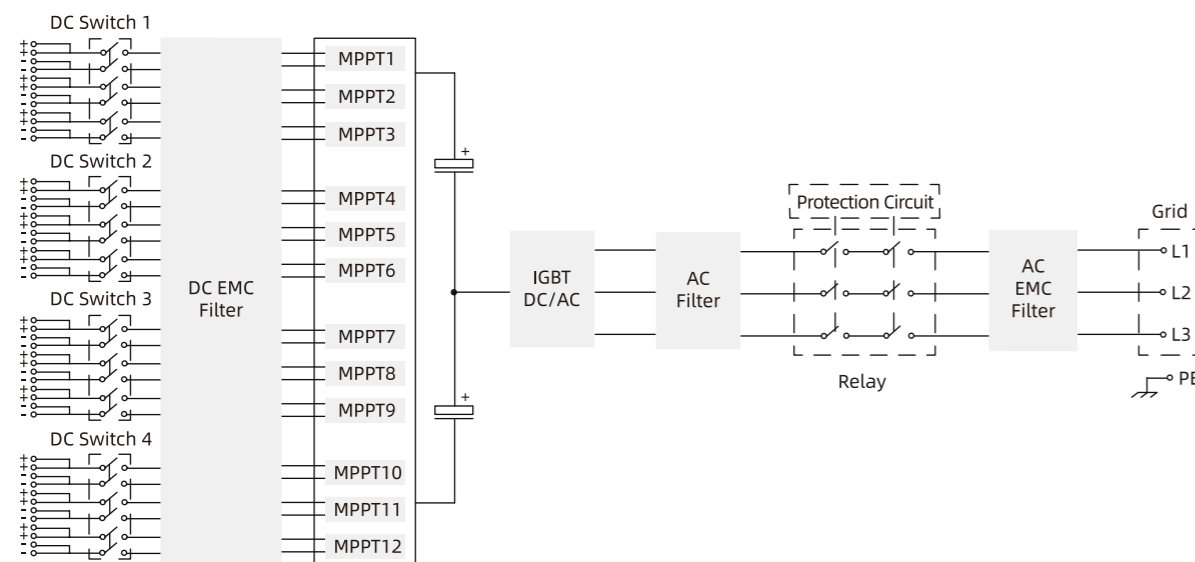


High Efficiency
 Maximum efficiency 99.01%, Europe efficiency 98.52%.
 12 MPPT, higher power generation.
 Supporting high-power bifacial modules.
 Integrated PID function to increase system power generation.
 High-precision intelligent string detection.

Reliable
 Built-in AC and DC lightning protection module
 No fuse, IP66 protection.
 Intelligent fan cooling, low temperature rising and long life.

Friendly
 Supporting PLC (power carrier communication technology), reducing the costs of the communication cable.
 Aluminum wire access, saving AC cable costs.
 Supporting IV diagnosis.
 AC and DC redundant power supply, 24-hour real-time monitoring.
 Night SVG function.
 Supporting DC 2 in 1 connection

Topological Graph



Technical Parameters

Model	BSM250K-BHV	
DC Input	Max. DC Voltage	1500V
	Startup voltage	500V
	MPPT Voltage Range	500V ~ 1500V
	MPPT Voltage Range Full Load	820V ~ 1320V
	Max. Input Current of Each MPPT	30A
	Number of DC Inputs / MPPT	24 / 12
AC Output	AC Output Power	200kW@50°C 230kW@40°C 250kW@30°C
	Max. Active Power (cosθ=1)	255kW
	Rated Output Voltage	800V
	Operating Voltage Range	680V ~ 880V
	Rated Output Current	162.4A
	Max. Output Current	178.6A
	Rated Grid Frequency	50Hz / 60Hz
	Power Factor	0.8(Leading) ~ 0.8(Lagging)
	THD	<3%
	System Parameters	Max Efficiency / European Efficiency
MPPT Tracking Efficiency		Steady>99.9%, Dynamic>99.0%
AC/DC SPD		Support
Insulation Impedance Detection		Support
Residual Leakage Current Detection		Support
PV String Fault Detection		Support
Output Overcurrent Protection		Support
Protection Level		IP66
Operating Temperature Range		-40°C ~ +60°C
Cooling System		Smart Air Cooling
Standby Power Consumption		<5W
Topology Structure		Transformerless
Operating Altitude		5000m (Derating above 4000m)
Display		LED Indicator
Communication		RS485 / PCL
Certification	IEC62109, IEC61000, IEC62116, IEC61727, EN50549, CQC, CGC	
Mechanical Parameters	Dimensions (W*H*D)	1000*727*317mm
	Weight	<100kg

Utility PV Inverter



Max. DC voltage 1100V.
Max. efficiency 99.04%.
3/4 channels MPPT.
High precision & intelligent string detection.



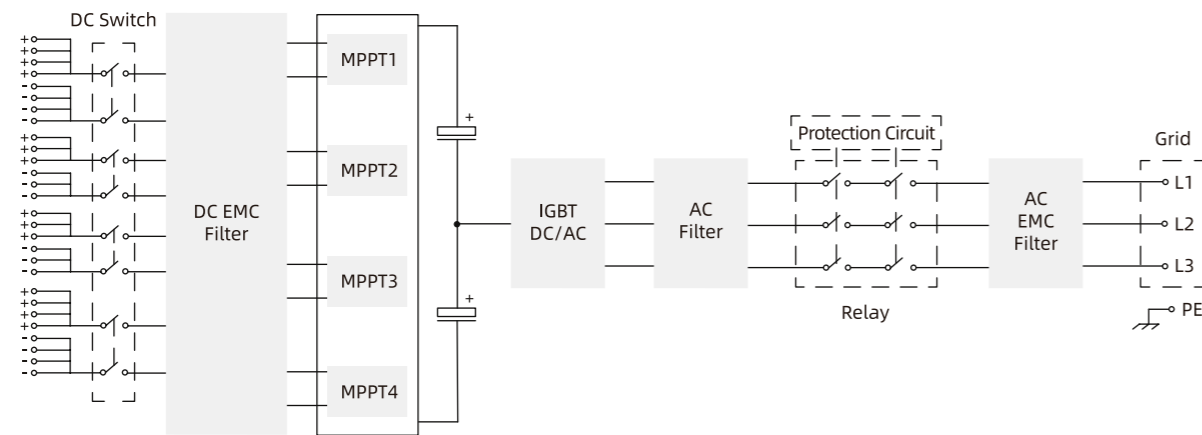
50K ~ 125K smart cooling
Compatible with bifacial PV modules.
Built-in AC and DC lightning protection module and provide full range of lightning protection.
Build-in PID module.



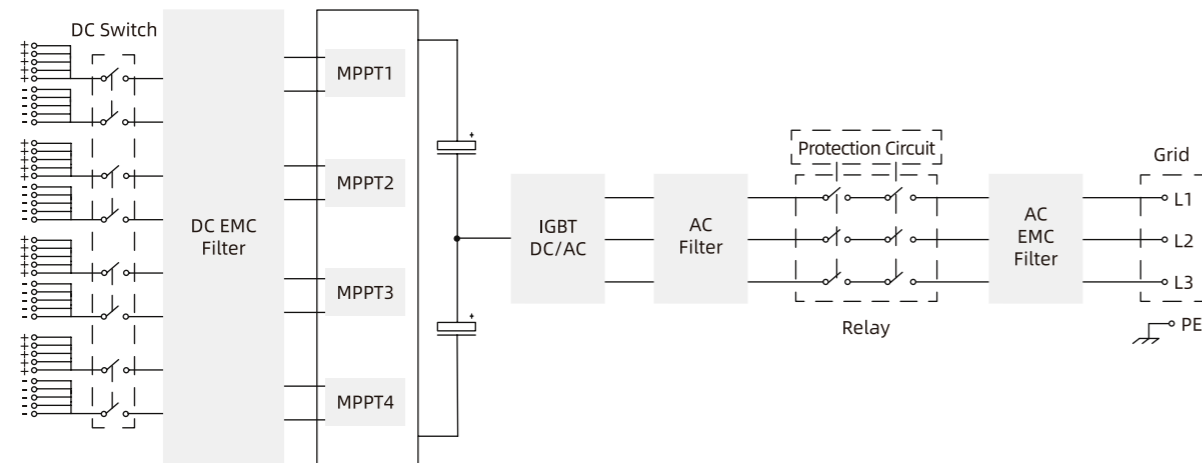
Active and reactive power regulation.
Support LVRT/ZVRT/HVRT.
AC and DC redundant power supply, 24-hour real-time monitoring.
Support mobile phone APP and view inverter status information.

Topological Graph

80K



125K



Technical Parameters

Model		BSM50K-BHV	BSM70K-BHV	BSM80K-BHV	BSM125K-BHV
DC Input	Max. DC Voltage	1100V			
	Startup voltage	500V			
	MPPT Voltage Range	450V ~ 1000V			
	Max. Input Current of Each MPPT	33A/33A/22A	33A/33A/33A/33A	44A/33A/33A/44A	55A/55A/55A/55A
	Number of DC Inputs	8	12	14	20
	MPPT Number	3	4		
AC Output	Rated Output Power	50kW	70kW	80kW	125kW
	Max. Active Power (cosθ=1)	55kW	77kW	88kW	137.5kW
	Rated Output Voltage	500V (Three Phase)			
	Operating Voltage Range	375V-600V			
	Rated Output Current	57.7A	80.8A	92.4A	144A
	Max. Output Current	63.5A	88.9A	101.6A	144A
	Rated Grid Frequency	50Hz / 60Hz			
	Power Factor	0.8(Leading) ~ 0.8(Lagging)			
	THD	<3%			
	System Parameters	Max. Efficiency	98.99%	99.01%	99.03%
European Efficiency		98.51%	98.52%	98.53%	98.54%
AC/DC SPD		Support			
Insulation Impedance Detection		Support			
Residual Leakage Current Detection		Support			
PV String Fault Detection		Support			
Output Overcurrent Protection		Support			
Protection Level		IP65			
Operating Temperature Range		-25°C ~ +60°C			
Cooling System		Smart Air Cooled			
Standby Power Consumption		< 1W			< 5W
Topology Structure		Transformerless			
Operating Altitude		5000m (Derating above 4000m)			
Display		LED Indicator + APP			
Communication		RS485 / WiFi / GPRS			
Certification		IEC62109, IEC61000, IEC62116, IEC61727, EN50549, CQC, CGC			
Mechanical Parameters		Dimensions (W*H*D)	705*650*283mm		
	Weight	<65kg	<75kg	<95kg	

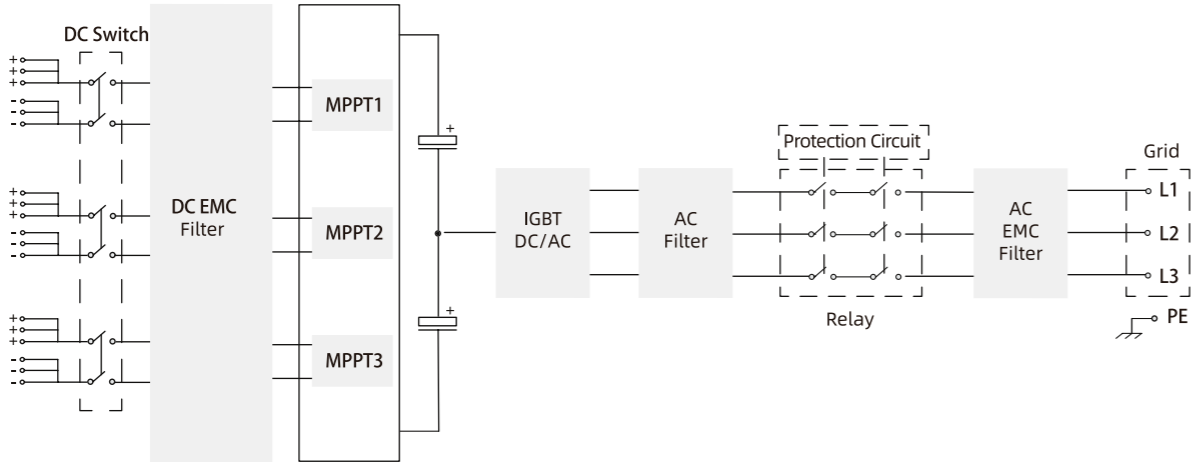
Commercial High Power Inverter



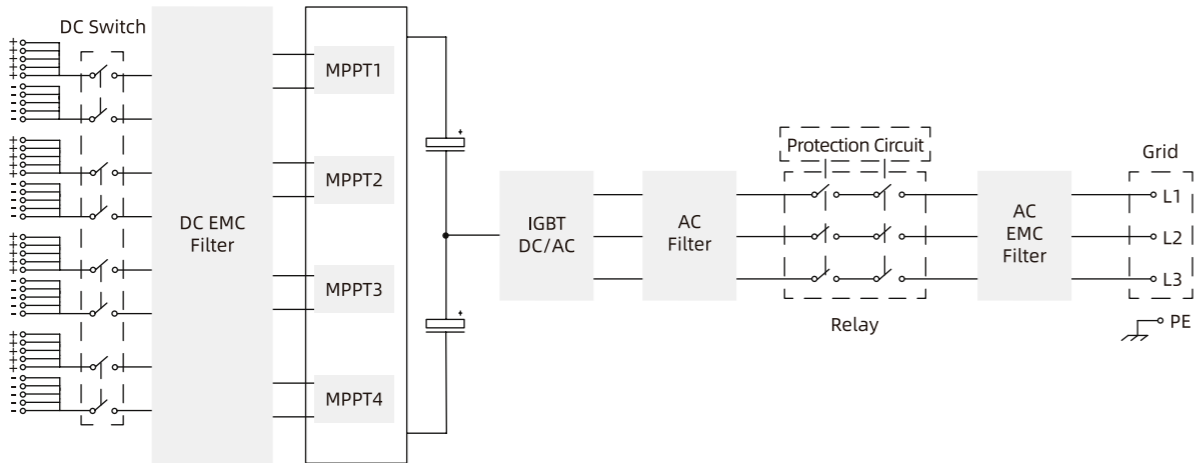
- High Efficiency**
 Max. DC voltage 1100V.
 Max. efficiency 99.03%.
 High precision & intelligent string detection.
- Reliable**
 36K~110K smart air cooling.
 Built-in AC and DC SPD protection module and provide full range of lightning protection.
 Night PID module.
- Friendly**
 Active and reactive power regulation. Support mobile phone APP and check the status information of status.

Topological Graph

36~40K



50~70K



Technical Parameters

Model	BSM36K -B	BSM40K -B	BSM50K -B	BSM60K -B	BSM70K -B	BSM75K -B	BSM100K -B	BSM110K -B					
DC Input	Max. DC Voltage								1100V				
	Startup voltage								500V				
	MPPT Voltage Range								450V ~ 1000V				
	MPPT Range Full Load								455V ~ 880V				
	Max Current / MPPT		33A / 33A/22A		33A/33A/33A/33A		33A/33A/33A/33A		55A/55A/55A/55A				
	Number of DC Inputs		8		12		12		20 20				
	MPPT Number		3			4							
AC Output	Rated Output Power								36kW 40kW 50kW 60kW 70kW 75kW 100kW 110kW				
	Max. Active Power								39.6kW 44kW 55kW 66kW 77kW 82.5kW 110kW 121kW				
	Rated Output Voltage								400V (Three Phase)				
	AC Voltage Range								300V-480V				
	Rated Output Current		52.0A 57.7A 72.2A		86.5A 101A		108.2A 144A		158.8A				
	Max. Output Current		57.2A 63.5A 79.4A		95.3A 111A		119A 144A		174.7A				
	Rated Grid Frequency								50Hz / 60Hz				
	Power Factor								0.8 (Leading) ~ 0.8 (Lagging)				
	THD								<3%				
	System Parameters			98.97%		98.95%		99.03%		98.85%	99.00%	99.00%	99.01%
		98.45%		98.51%		98.51%		98.52%	98.52%				
AC/DC SPD								Support					
PV String Fault Detection								Support					
RCD								Support					
AC Overcurrent Protection								Support					
Cooling System								Smart Air Cooling					
Operating Temperature								-25°C ~ +60°C					
Protection Level								IP65					
Standby Power Consumption				<1W				<5W					
Topology Structure								Transformerless					
Operating Altitude								5000m (Derating above 4000m)					
Display								LED + APP					
Communication								RS485 / WiFi / GPRS					
DC Terminator								MC4					
AC Terminator		OT / DT (MAX 50mm ²)		OT / DT (MAX 95mm ²)		OT / DT (MAX 300mm ²)							
Certification								IEC62109 / IEC61000 / IEC62116 / IEC61727 / EN50549 / CQC / CGC					
Dimensions (W*H*D)				705*650*283mm				800*672*315mm					
Mechanical Parameters		Weight		<65kg		<75kg		<85kg					

Commercial Medium Power Inverter



High Efficiency

Max. DC voltage 1100V.
Max efficiency 99.0%.
Double channels MPPT.
High precision & intelligent string detection.

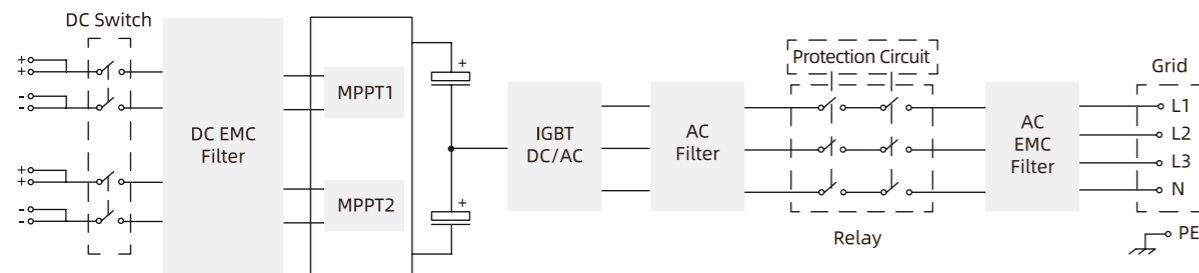


Reliable

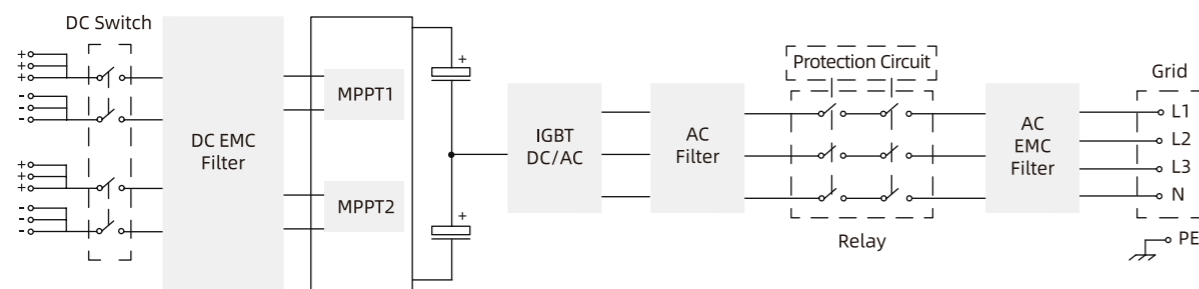
10K~22K natural cooling, 25K~33K smart air cooling.
Compact structure, easy for installation and maintenance.
Reliable under/over voltage protection, anti-islanding.
Built-in AC and DC lightning protection module and provide full range of lightning protection.
Mobile phone APP and check the status information of inverter.

Topological Graph

20~25K



30/33K



Technical Parameters

Model	BSM10K-B	BSM12K-B	BSM15K-B	BSM17K-B	BSM20K-B	BSM22K-B	BSM25K-B	BSM30K-B	BSM33K-B	
DC Input	Max. DC Voltage									1100V
	Startup voltage									450V
	MPPT Voltage Range									450V ~ 1000V
	Max. Input Current of Each MPPT		11A/11A	22A/11A		22A/22A		26A/26A	33A/33A	
	Number of DC Inputs		2	3		4		6		
	MPPT Number									2
AC Output	Rated Output Power									10kW 12kW 15kW 17kW 20kW 22kW 25kW 30kW 33kW
	Max. Active Power (cosθ=1)									11kW 13.2kW 16.5kW 18.7kW 22kW 24.2kW 27.5kW 33kW 36.3kW
	Rated Output Voltage									400V (Three Phase)
	Operating Voltage Range									300V-480V
	Rated Output Current		14A	17A	22A	25A	29A	32A	36A	43.3A 47.6A
	Max. Output Current		16A	19A	24A	27A	32A	35A	39.7A	47.6A
	Rated Grid Frequency									50Hz / 60Hz
	Power Factor									0.8(Leading) ~ 0.8()
	THD									<3%
	System Parameters	Max. Efficiency		98.60%	98.61%	98.62%	98.63%	98.65%	98.94%	99.00%
European Efficiency		98.30%					98.26%	98.50%	98.26%	
AC/DC SPD									Support	
Insulation Impedance Detection									Support	
Residual Leakage Current Detection									Support	
PV String Fault Detection									Support	
Output Overcurrent Protection									Support	
Protection Level									IP65	
Operating Temperature Range									-25°C ~ +60°C	
Cooling System			Natural Cooling				Smart Air Cooled			
Standby Power Consumption									<1W	
Topology Structure									Transformerless	
Operating Altitude									5000m (Derating above 4000m)	
Display									LED Indicator + APP	
Communication									RS485 / WiFi / GPRS	
Certification									IEC62109, IEC61000, IEC62116, IEC61727, EN50549, CQC, CGC	
Mechanical Parameters		Dimensions (W*H*D)								
	Weight						<30kg		<35kg	

Residential PV Inverter



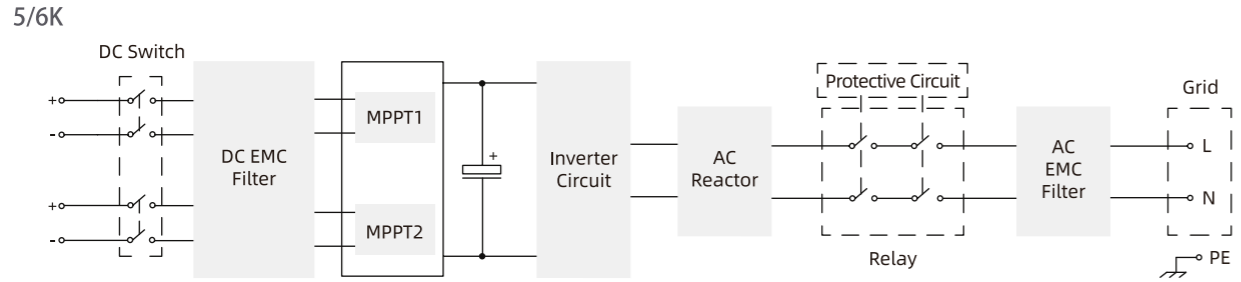
High Efficiency

Max. DC voltage 550V.
Max efficiency 98.59%.
Double channels MPPT.
High precision & intelligent string detection.

Reliable

Compact structure, easy for installation and maintenance.
IP65 waterproof.
Mobile phone APP and check the status information of inverter.

Topological Graph



Technical Parameters

Model		BSM5000-B2	BSM6000-B2	BSM8000-B2
DC Input	Max. DC Voltage	550V		
	Startup voltage	140V		
	MPPT Voltage Range	90V ~ 500V		
	Max. Input Current of Each MPPT	12A/12A		24A/12A
	Number of DC Inputs	2		3
	MPPT Number	2		
AC Output	Rated Output Power	5kW	6kW	8kW
	Max. Active Power (cosθ=1)	5.5kW	6.6kW	8kW
	Rated Output Voltage	220V / 230V (Single Phase)		
	Operating Voltage Range	172.5V ~ 276V		
	Max. Output Current	25A	30A	36.4A
	Rated Grid Frequency	50Hz / 60Hz		
	Power Factor	0.8(Leading) ~ 0.8(Lagging)		
	THD	<3%		
System Parameters	Max. Efficiency	98.47%	98.55%	98.59%
	European Efficiency	98.0%		
	AC/DC SPD	Support		
	Insulation Impedance Detection	Support		
	Residual Leakage Current Detection	Support		
	PV String Fault Detection	Support		
	Output Overcurrent Protection	Support		
	Protection Level	IP65		
	Operating Temperature Range	-25°C ~ +60°C		
	Cooling System	Natural Cooling		
	Standby Power Consumption	<1W		
	Topology Structure	Transformerless		
	Operating Altitude	4000m (Derating above 3000m)		
	Display	LED Indicator + APP		
Communication	RS485 / WiFi / GPRS			
Certification	IEC62109, IEC61000, IEC62116, IEC61727, EN50549, iNMETRO,			
Mechanical Parameters	Dimensions (W*H*D)	325*380*177mm		
	Weight	<14kg		

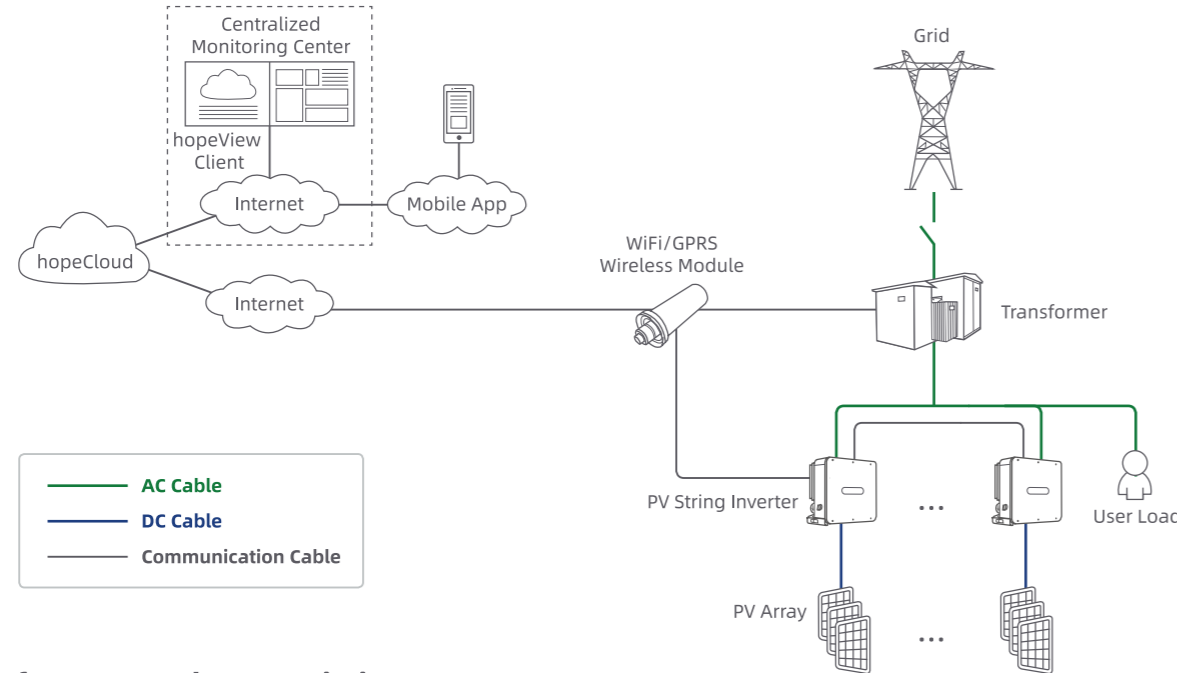
Communication Solution-WiFi/GPRS Wireless Module

Product Description

The WiFi/GPRS wireless module is used to extend the WiFi data transmission channel of the device. It supports mobile phone APP connection, monitoring, parameter settings, and can cooperate with hopeView cloud platform for effective monitoring.



For Small Household



Performance Characteristics



Easy to Use

- Support RS485 port connections, plug and play.
- Support cloud platform monitoring services.
- Support remote modification of local parameters, support remote firmware upgrade.



Flexible

- Support multiple data formats.
- Support fast adaptation of all kinds of equipment.



Stable

- Industrial components and designs, can work at high temperatures.
- Under voltage protection and built-in hardware watchdog, the system automatically restarts when fault happens.
- Real-time detection of online status, the device will never be dropped.

Technical Parameters

Model		GPRS Module
External Interface	Power Port	Power input: 5 ~ 24VDC
	Data Input Mode	RS485 (9600bps)
	Data Output Mode	GPRS
	Acquisition Baud Rate	9600 (default)
	Data Acquisition Interval	5 minutes
GPRS Parameter	Operating Frequency	GSM850 / EGSM900 / DCS1800 / PCS1900
	Antenna Gain	2.5dBi
	Maximum Transmission Rate	85.6Kbps
	Flow Card	Standardized GPRS Nano card (Including One-year usage)
Software Parameter	Application Layer Protocol	Modbus-RTU
	Network Layer Protocol	Modbus-TCP
	Parameter Setting	Remote server
General Parameters	Protection Level	IP65
	Installation Mode	Aviation connector installation
	Operating Temperature	-30°C ~ +85°C
Model		WiFi Module
External Interface	Docking Mode	DB9 / Aviation connector / RJ45 / 4Pin Socket
	Working Indicator	Power supply, networking, data transmission, data reception
WiFi Parameter	Operating Frequency	2.412GHz ~ 2.484GHz
	Wireless Standard	802.11 b/g/n
	Antenna Gain	2.5dBi (external)
	Data Rate	11Mbps@11b, 54Mbps@11g, 72Mbps@11n
	Hardware Encryption	WEP, WPA / WPA2
	Communication Distance	100m (open environment)
Software Parameter	Working Mode	AP + STA (coexistence mode)
	Supported Device Protocol	Modbus-RTU, Modbus-TCP
	Data Upload Cycle	5 minutes (default)
	Parameter Configuration Mode	APP
Hardware Parameter	Number of Clients in AP Mode	1 (preemptive)
	Data Input Mode	RS485 (9600bps)
	Data Output Mode	WiFi

Project Cases

Ukraine 15MW Solar Plant



Brazil 500kW Rooftop Project



Residential PV Project in China



Roof-top PV Project in Hunan China



Poverty Alleviation PV Project in Hebei

Rooftop PV Project in Shandong





Energy Storage

BMPS30/50/100 150/250/500

Hybrid Inverter

30KW/50KW/100KW
150KW/250KW/500KW

EU Standard

Application Scenario



Mine off grid



Island off grid

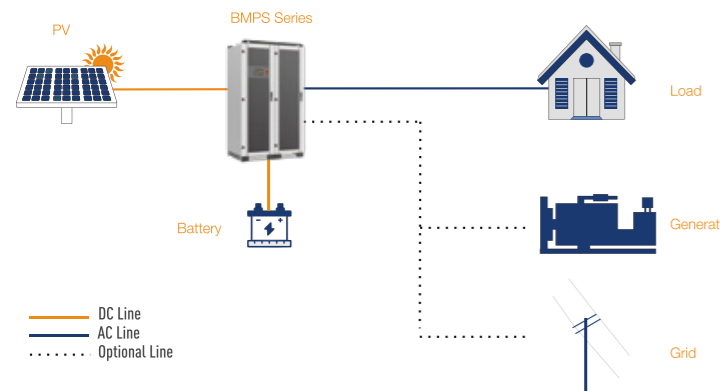


Villages without electricity



Farm off grid

Product Topology



Flexible

Various working modes can be set flexibly
Flexible Battery Type(Li-ion,lead-acid).
PV controller can be expanded to facilitate flexible configuration of photovoltaic capacity.



Convenient

Integrated design to support loads, batteries, power grids, diesel generators and PV be connected.
Integrated EMS function, power supply security and stabilize maximum utilization of new energy.



Reliable

Prediction intelligent battery management and discharge time.
CAN and RS485 communication interface, modbus protocol.
Seamless transfer between on and off grid.
Strong load adaptability.
Perfect protection function to protect inverters and batteries.

TECHNICAL PARAMETERS

Model	BMPS30	BMPS50	BMPS100	BMPS150	BMPS250	BMPS500	
AC (grid-connected)	Apparent power	33kVA	55kVA	110kVA	165kVA	275kVA	550kVA
	Rated power	30kW	50kW	100kW	150kW	250kW	500kW
	Rated voltage	400V					
	Rated current	35.8A	60A	120A	180A	300.8A	601.7A
	Voltage range	384-552(480V)					
	Rated frequency	50/60Hz					
	Frequency range	45-55/55-65Hz					
	THDI	<3%					
	PF	1.0(0.8 lead-0.8 hysteresis(Settable))					
	AC connection	3W+N+PE					
Transformer ratio	100/480	200/480	270/480	270/480	270/480	315/480	
AC (off-grid)	Apparent power	33kVA	55kVA	110kVA	165kVA	275kVA	550kVA
	Rated power	30kW	50kW	100kW	150kW	250kW	500kW
	Rated voltage	480V					
	Rated current	35.8A	60A	120A	180A	300.8A	601.7A
	THDU	≤2% linear					
	Rated frequency	50/60Hz					
	Overload capability	110% long-term					
PV	Max. PV open-circuit voltage	1000VDC					
	MAX PV power	60/120KW	120/180/240KW	300/360KW	600/660/720KW		
	PV mppt voltage range	250V-850V					
	MPPT voltage range@full load	450V-850V					
Battery	Battery voltage range	250V-850V	320V-850V	420V-850V	420V-850V	420V-850V	500V-850V
	Max. Charging Power	60/120KW	120/180/240KW	300/360KW	600/660/720KW		
General data	Dimension(WXDXH)	800X800X1900mm	1200X800X2050mm	(600×720×2050) ×1	(600×720×2050) ×2		
	Weight	621kg	712kg	936kg	1057kg	426+1582kg	426x2+2665kg
	Environmental temperature	-30°C~+55°C					
	Relative humidity	0-95%non-condensing					
	Protection degree	IP20					
	Noise emission	<70dB(A)@1m					
	Maximum altitude	5000m(>3000 Derating)					
	Shutdown self power consumption	<30W					
	Cooling Mode	Air Cooling					
	Communication	Display	Touch screen LCD				
Communication interface		RS485/CAN					
Local Communication		RS485, TCP/IP					
Authentication		TUV, CE					

Energy Storage
(Low Battery Voltage)

BSE6KL1

Hybrid
Inverter

6KW

EU Standard
48V Battery



Application Scenario



Flexible

Wide input voltage range, Compatible with lead-acid or lithium-ion batteries or other battery

Reliable

Compatible anti counter flow function. Battery reverse connect protection.

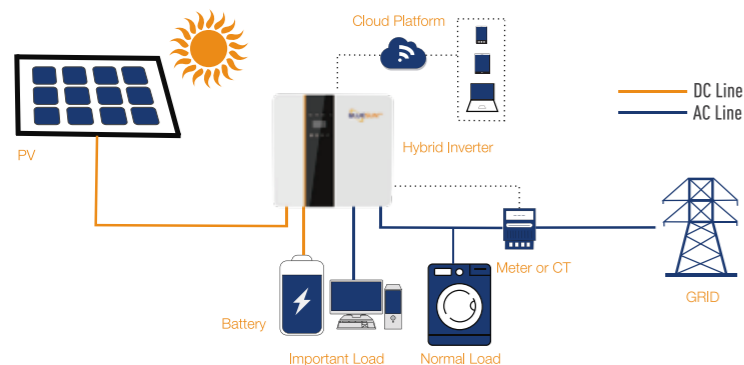
Grace

Fashion appearance, light weight, smart operation. Natural cooling, low noise. IP65, wall mounted design, saving space. Touch screen LCD.

Advanced

Intelligent energy management system for home. Power dispatching and demand side response management. Distributed virtual power station management.

Product Topology



TECHNICAL PARAMETERS

Model	BSE6KL1	
PV input	Max. Input Power	7000W
	Start-up voltage	125V
	Max. PV voltage	550V
	MPPT range/nominal	125V-500V /360V
	Max. input current	14A/14A
	MPPT tracker/strings	2/1
AC OUT PUT	Rated power w/va	6000VA/6000W
	Max. output current	26A
	Nominal voltage/range	230V /180Vac~280Vac
	Frequency	50 /60Hz
	PF	0.99lagging-0.99leading
	THDI	<3%
	AC output topology	L+N+PE
Battery	Battery voltage range	40~58V
	Max. charging voltage	58V
	Charge/discharge current	95A/110A
	Battery type	lithium /Lead-acid
	Communication interface	CAN/RS485
EPS output	Rated power w/va	6000VA/6000W
	Rated voltage	230Vac
	Rated current	26A
	Rated frequency	50 /60Hz
	Automatic switchover time	<20ms
	THDU	<2%
	Overload capacity	110%,60S/120%,30s/150%,10s
	Overload capacity	110%,60S/120%,30s/150%,10s
Genera DATA	Battery chage/discharge	95.5%/95%
	DC max. efficiency	97.6%
	Euro efficiency	97%
	MPPT efficiency	99.9%
	Protection class	IP65
	Noise emission (typical)	<35dB
	Operation temperature	-25 C ~+60 C
	Cooling	Natural
	Relative humidity	0~95%(non-condensing)
	Altitude	2000m
	Dimensions (WXDXH)	550X200X515mm
	Weight	26kg
	Inverter topology	Without transformer
Self-consumption	<3W	
Features	Display	LCD
	Interface:rs485/wifi/lan /can/drm	yes /opt/opt/yes/yes
	Certificates	CE、TUV、SAA

Energy Storage
(AC Three-phase)

BSE8KH3/10KH3 /12KH3/15KH3

Hybrid
Inverter

Output Power:
8KW/10KW/12KW/15KW

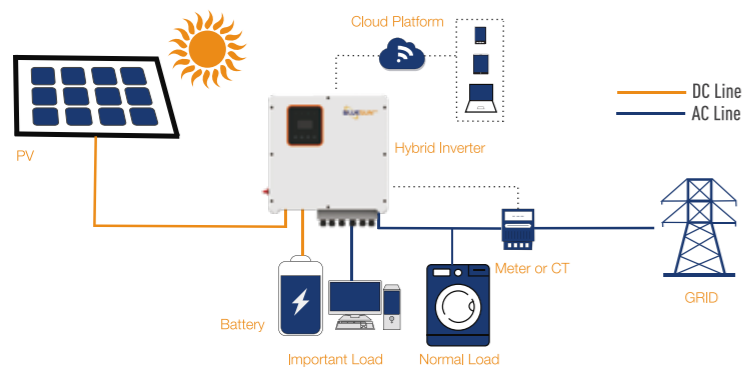
EU Standard



Application Scenario



Product Topology



Flexible

Wide input voltage range. Compatible with lead-acid or lithium-ion batteries or other battery

Reliable

Compatible anti counter flow function. Battery reverse connect protection.

Grace

Fashion appearance, light weight, smart operation. Natural cooling, low noise, IP65, wall mounted design, saving space. Touch screen LCD.

Advanced

Intelligent energy management system for home. Power dispatching and demand side response management. Distributed virtual power station management.

TECHNICAL PARAMETERS

Model	BSE8KH3	BSE10KH3	BSE12KH3	BSE15KH3	
PV input	Max. input power	12KW	15KW	18KW	22.5KW
	Max. PV voltage	1000V			
	MPPT range	180V-850V			
	Max. input current	12.5A*2			
	MPPT tracker/strings	2/1	2/1	2/1	2/1
AC output	Max. output power	8KVA	10KVA	12KVA	15KVA
	Max. output current	12.7A	15.8A	19A	23.8A
	Nominal voltage/range	380V/400V 3W+N+PE			
	Frequency	50 /60Hz			
	PF	0.99lagging-0.99leading			
	THDI	<2%			
	AC output topology	3W+N+PE			
Battery	Battery voltage range	125V~600V			
	Charge/discharge current	50A	50A	50A	50A
	Max. Charge/discharge power	8.8KW	11KW	13.2KW	13.2KW
	Battery type	Lithium-ion /Lead-acid			
	Communication interface	CAN/RS485			
Eps output	Max. output power	8.8KVA	11KVA	13.2KVA	13.2KVA
	Rated voltage	400Vac			
	Rated current	12.7A	15.9A	19.1A	19.1A
	Rated frequency	50 /60Hz			
	Automatic switchover time	<20ms			
	THDU	<2%			
Generaldata	Battery chage/discharge	97.5%	97.5%	97.6%	97.8%
	DC max. efficiency	97.9%	98.2%	98.2%	98.5%
	Europe efficiency	97.2%	97.5%	97.5%	97.6%
	MPPT efficiency	99.9%	99.9%	99.9%	99.9%
	Protection class	IP65			
	Noise emission (typical)	<25dB			
	Operation temperature	-35°C~+60°C			
	Cooling	Natural convection			
	Relative humidity	0 ~100%			
	Altitude	4000m(Derating above 2000 m)			
	Dimensions (WXDXH)	530X220X560mm			
	Weight	30kg	31kg	32kg	34kg
	Inverter topology	Without transformer			
	Self-consumption	<3W			
Features	Display	LCD			
	Interface:rs485/wifi/lan/can/drm	yes /opt/opt/yes/yes			
	Certificates	CE TUV VDE EN50549			

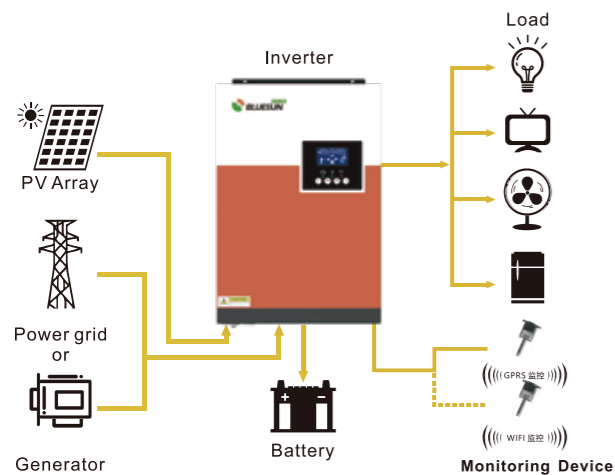
Hybrid Off Grid Solar Inverter 3.5KW/5.5KW

Performance Characteristics

- Supporting 24V Lithium Battery
- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Battery equalization function to optimize battery performance and extend lifecycle Inverter running without battery
- Built-in MPPT solar controller
- WiFi/GPRS remote monitoring RS485 communication for BMS(Optional)
- Detachable LCD(Optional)



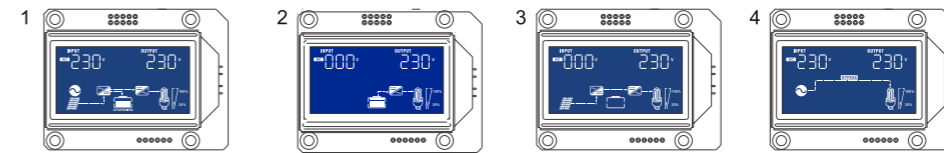
System Diagram



Product Overview

- This is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterrupted power support in portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Hybrid Off Grid Solar Inverter 3.5KW/5.5KW



- With battery, solar and AC available
- With battery, solar and AC not available
- Without battery, solar available
- Without battery, AC available

MODEL	BSM-3500LV-24	BSM-5500LV-48
Capacity	3.5KVA/3.5KW	5.5KVA/5.5KW
Parallel Capability	NO	NO
INPUT		
Nominal Voltage	220VAC	
Acceptable Voltage Range	170-280VAC (For personal Computer); 90-280VAC (For Home Appliances)	
Frequency	50/60 Hz (Auto sensing)	
OUTPUT		
Nominal Voltage	220/230VAC ± 5%	
Surge Power	7000VA	11000VA
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@ >=150% load; 10s@ 110%~150% load	
Crest Factor	3:1	
Admissible Power Factor	0.6-1 (inductive or capacitive)	
BATTERY		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
OverCharge Protection	33VDC	63VDC
Charging Method	CC / CV	
Solar Charger & AC Charger		
Solar Charger TYPE	MPPT	
Max. PV Array Power	4000W	5500W
Max. PV Array Open Circuit Voltage	500VDC	
PV Array MPPT Voltage Range	120VDC ~ 450VDC	
Max. Solar Input Current	15A	18A
Max. Solar Charge Current	100A	100A
Max. AC Charge Current	60A	60A
Max. Charge Current	100A	100A
PHYSICAL		
Dimensions, D x W x H(mm)	482x290x113	
Package Dimensions, D x W x H(mm)	565x380x190	
Net Weight (Kgs)	9	10
Communication Interface	USB / RS232 / Dry-contact	
ENVIRONMENT		
Operating Temperature Range	-10°C to 50°C	
Storage temperature	-15°C ~ 60°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	

Products specifications are subject to change without further notice.

Hybrid Solar Inverter 5.5KW Parallel

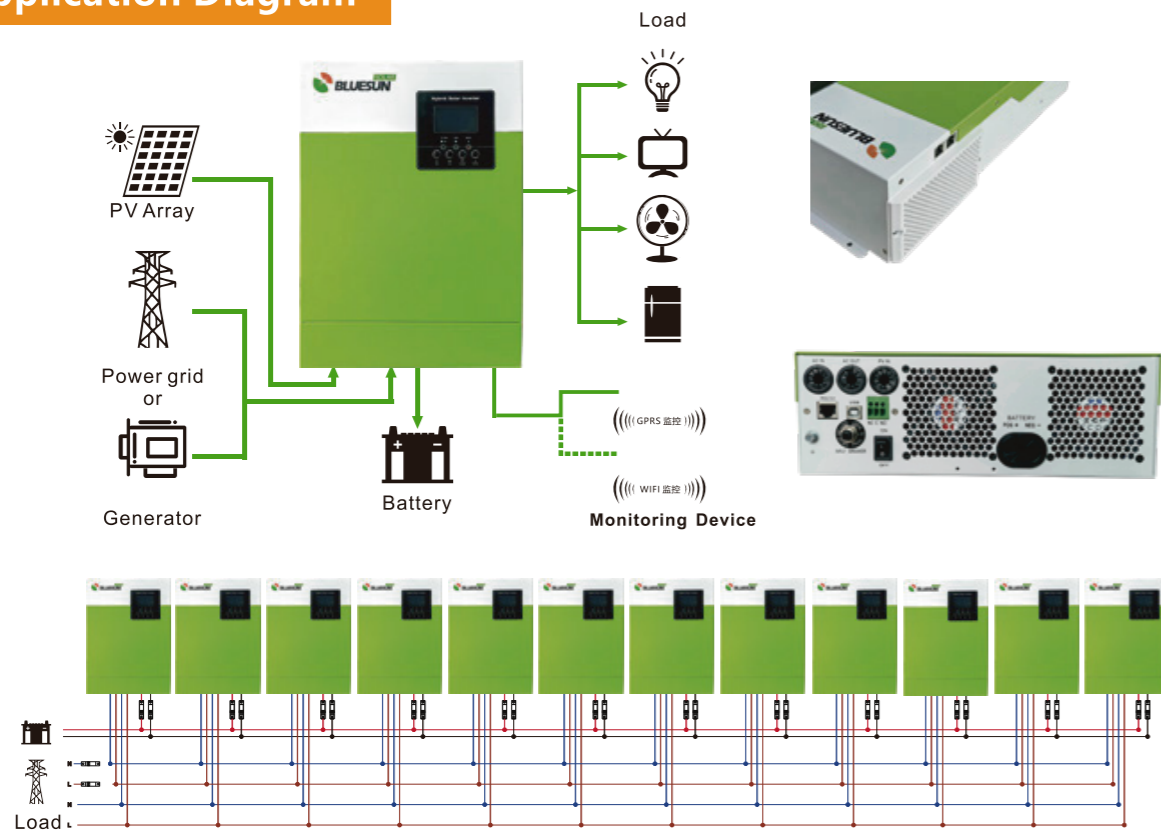


Features

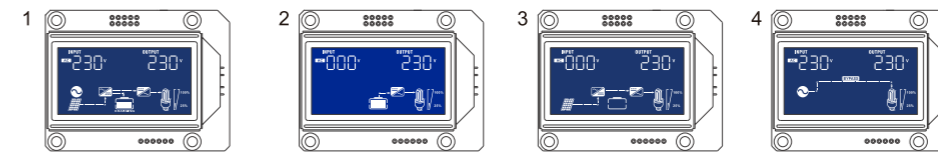
- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Built-in MPPT solar controller
- Battery equalization function to optimize battery performance and extend lifecycle
- Inverter running without battery
- Built-in anti-dusk kit for harsh environment
- Parallel operation with up to 12 units
- WiFi/GPRS remote monitoring(Optional)
- Detachable LCD(Optional)

This is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Application Diagram



System Diagram



1. With battery, solar and AC available
2. With battery, solar and AC not available
3. Without battery, solar available
4. Without battery, AC available

Technical Data

MODEL	BSM-5500BLV-48
Capacity	5.5 KVA /5.5KW
Parallel Capability	Yes,Max to 12 Units
INPUT	
Nominal Voltage	220VAC
Acceptable Voltage Range	170-280VAC (For personal Computer);90-280VAC (For Home Appliances)
Frequency	50/60 Hz (Auto sensing)
OUTPUT	
Nominal Voltage	220/230VAC ± 5%
Surge Power	11000VA
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@ >=150% load; 10s@ 110%-150% load
Crest Factor	3:1
Admissible Power Factor	0.6~1 (inductive or capacitive)
BATTERY	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC/CV
Solar Charger & AC Charger	
Solar Charger TYPE	MPPT
Max. PV Array Power	5500 W
Max. PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	120VDC ~ 450VDC
Max. Solar Input Current	18A
Max. Solar Charge Current	100A
Max. AC Charge Current	60A
Max. Charge Current	100A
PHYSICAL	
Dimensions, D x W x H(mm)	482x290x113
Package Dimensions, D x W x H(mm)	565x380x190
Net Weight (Kgs)	10
Communication Interface	USB /RS 232/Dry-contact
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.

BSM48100

51.2V100AH 5120WH

All-time monitor

Long Life

Rated life span of more than 6000 cycles

Expandable

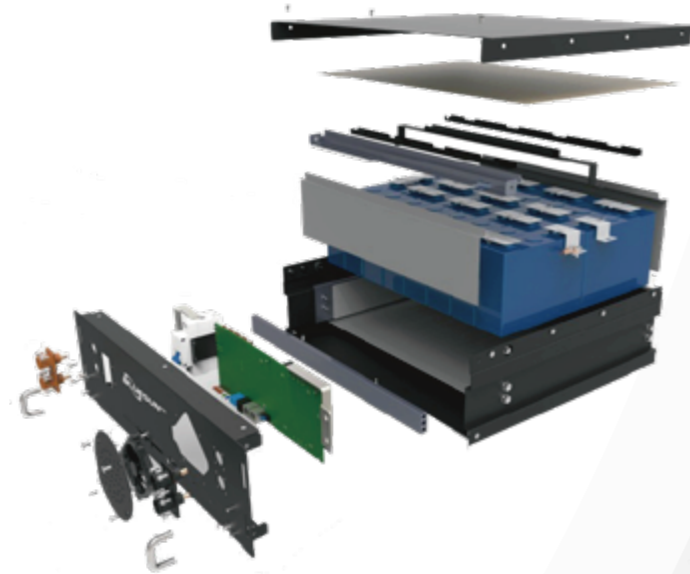
Storage capacity is expandable to 76.8kwh.

High Efficiency

98% charge/discharge efficiency.

Easy Installation

Easy, plug and play Installation



BSM 51.2100 //

Normal

Model	BSM48100
Battery Type	Li'fe'PO4(LFP)
Nominal Voltage(V)	51.2V
Nominal Capacity(WH)	5120WH
Usable Capacity(WH)	4096WH
Design Life	10+ Years(25°C/77F)

Physical

Dimension(mm)	482*177.8*442
Weight(kg)	50

Electrical

Cycle Life	>6000,25°C
Discharge Voltage(V)	40~58.4
Charge Voltage(V)	56~58.4
Charge/Discharge Current(A)	50A(Recommended)
	100A(Max)
Internal Resistance	≤30mΩ

BMS

Power Consumption	<2W(Work)<100mW(Sleep)
Monitoring Parameters	System voltage, Current, cell voltage, cell temperature, module temperature
SOC	Intelligent algorithm
Communication	CAN/RS-485

Operation

Operating Temperature Range	-10°C ~50°C
Transport or Storage Temperature Range	-20°C ~45°C
Humidity	15%~85%(No Condensing)



BSM-U-48V/5.76kWh Lithium Battery



Product features :



Modular design, can connect to 8 modulators in parallel



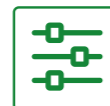
Long service life, cycles up to 10 years



With smart balance technology, it can effectively ensure consistent status of battery cells throughout their life



Natural heat dissipation, protection class IP54



Integrated with CAN, 485 communication interfaces

Model	BSM-U-48V/5.76kWh
Capacity	5.76kWh
Depth of discharge	90% DOD
Nominal Voltage	48VDC
Voltage range	39~54VDC
Maximum charging voltage	54DC
Continuous current at 25°C	100A
Continuous current at 35°C	<80A
Continuous current at 45°C	<50A
Maximum pulse current at 25°C,10s	<115A
Continuous charging current at 25°C	50A
Efficiency	>97%
Operating Condition	indoor or Outdoor
Operating Temperature	-10°C~45°C
Dimension (L * W * H)	890*643*178mm
Weight	75KG
Cooling Type	Natural cooling
Shell Material	Aluminum
Installation Method	Wall Mounted
IP Rating	IP54
Maximum of Parallel	8
Parallel Setting	Auto Sensing
Warranty	6200 Cycles
Life Span	>10 Years
Communication Mode	RS485,CAN
Protection Mode	Triple Hardware Protection
Battery Protection	Over-current,Over-voltage,Short circuit,Under-voltage,Over-temperature



SOLAR BATTERY

SPECIAL DESIGN FOR SOLAR SYSTEM

www.bluesunpv.com



Power source for portable devices or tools

Telecommunication equipment

Signal system, emergency lighting system, security system

EPS and UPS battery backup

Solar and wind energy storage system



12V AGM SERIES LEAD ACID BATTERY

Model	Voltage (V)	Capacity (AH)	Weight (KG)	Dimension(MM)				Terminal
				Length	Width	Height	Total Height	
FCD-65	12	65	21.0	350	166	176	176	M8
FCD-100	12	100	30.5	307	169	211	215	M8
FCD-150	12	150	46.0	484	171	241	241	M8
FCD-180	12	180	56.6	532	206	216	221	M8
FCD-200	12	200	59.6	532	206	216	221	M8
FCD-220	12	220	64.8	522	240	219	225	M8
FCD-250	12	250	77.8	521	269	220	224	M8

KEY FEATURES:

- Maintenance-free, absorbent glass mat technology
- Wide suitability of, absorbent glass mat technology
- Low self discharge
- Long designed service life
- Excellent discharge performance
- Environment friendliness

APPLICATIONS:

- Solar and wind energy storage system
- EPS and UPS battery backup
- Signal system, emergency lighting system, security system
- Telecommunication equipment
- Power source for portable devices or tools

12V GEL SERIES LEAD ACID BATTERY

KEY FEATURES:

- Gelled electrolyte made by mixing sulfuric acid with silica fume.
- The electrolyte is gel like, immobile and does not leak, enabling uniform reaction of each part of the plate.
- High rate discharge performance due to tight assembly technology
- Strong heat dissipation and wide operating temperature range
- Avoid acid mist being separated out, environment friendly
- Efficient venting system release excessive gas automatically

APPLICATIONS:

- Solar and wind energy storage system
- EPS and UPS battery backup.
- Signal system, emergency lighting system, security system
- Telecommunication equipment
- Power source for portable devices tools

Model	Voltage (V)	Capacity (AH)	Weight (KG)	Dimension(MM)				Terminal
				Length	Width	Height	Total Height	
FCG-65	12	65	21	351	167	176	176	M8
FCG-100	12	100	30.5	331	174	214	219	M8
FCG-150	12	150	44.8	484	171	241	241	M8
FCG-180	12	180	52.8	532	206	216	221	M8
FCG-200	12	200	60.8	522	240	219	224	M8
FCG-220	12	220	63.3	522	240	219	224	M8
FCG-250	12	250	70.8	521	269	220	224	M8

2V AGM/GEL SERIES LEAD ACID BATTERY

KEY FEATURES:

- Long service life according to EUROBAT classification
- High gas recombination efficiency
- Wide suitability of ambient temperature range
- Low self discharge

APPLICATIONS:

- Solar and wind energy storage system
- EPS and UPS battery backup
- Telecommunication equipment
- Power source for portable devices or tools
- Signal system, emergency lighting system, security system

2V AGM SERIES

Model	Voltage (V)	Capacity (AH)	Weight (KG)	Dimension(MM)				Terminal
				Length	Width	Height	Total Height	
GFM-200	2	200	13.5	172	110	330	367	B3
GFM-300	2	300	20	172	150	330	365	B3
GFM-400	2	400	26.5	211	175	330	368	B3
GFM-500	2	500	32	241	172	330	366	B3
GFM-600	2	600	39	301	175	330	368	B3
GFM-800	2	800	52	411	175	330	365	B3
GFM-1000	2	1000	63	474	175	328	366	B3
GFM-1500	2	1500	220	401	347	342	378	B3
GFM-2000	2	2000	280	490	349	342	383	B3
GFM-3000	2	3000	420	711	353	342	383	B3

2V GEL SERIES

Model	Voltage (V)	Capacity (AH)	Weight (KG)	Dimension(MM)				Terminal
				Length	Width	Height	Total Height	
GFMG-200	2	200	13.5	172	110	330	367	B3
GFMG-300	2	300	20	172	150	330	365	B3
GFMG-400	2	400	26.5	211	175	330	368	B3
GFMG-500	2	500	32	241	172	330	366	B3
GFMG-600	2	600	39	301	175	330	368	B3
GFMG-800	2	800	52	411	175	330	365	B3
GFMG-1000	2	1000	63	474	175	328	366	B3
GFMG-1500	2	1500	220	401	347	342	378	B3
GFMG-2000	2	2000	280	490	349	342	383	B3
GFMG-3000	2	3000	420	711	353	342	383	B3