



BLUESUN STORAGE SYSTEM

Standard Proposal

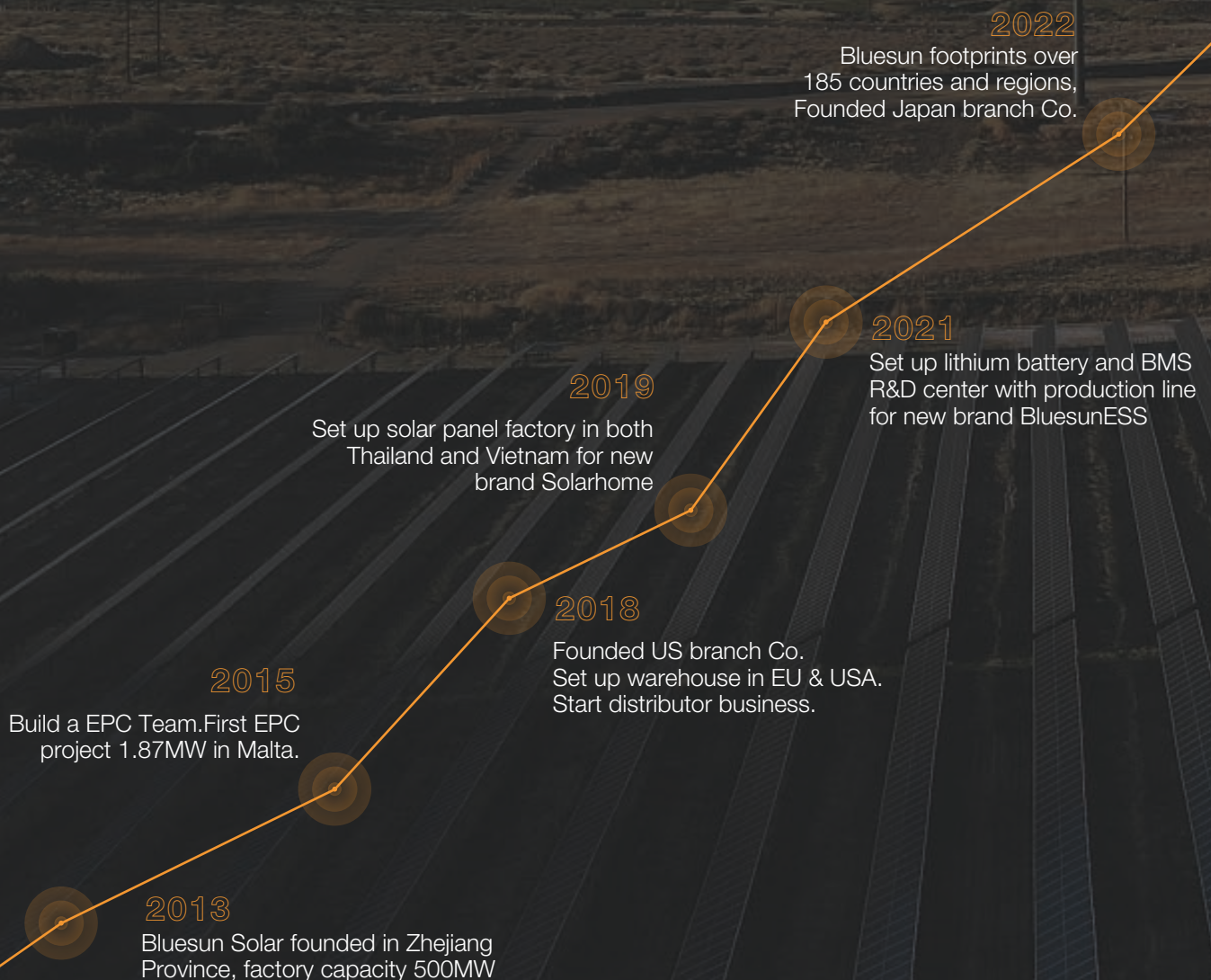
ABOUT BLUESUN

Bluesun Solar---is one of the solar power solution leading companies in China. Specializing in research and development of solar panel, lithium battery and BMS. Bluesun product has exported to more than 185 countries and regions by the end of 2022. We devote ourselves to providing excellent solar solution to all over world.

326
Member

86
R&D Team

US \$ 976,000,000+
Sales



CATALOGUE

BSE Series 01-03

BSE-100Wp-384Wh-Eco 02

BSR Series 04-22

BSR-800W-1.33KWh-Eco 05

BSR-1.5KW-2.66KWh-Eco 07

BSR-3.5KW-5.32KWh-Eco 09

BSR-5.5KW-5.32KWh-Eco 11

BSR-5.5KW-10.6KWh-Eco 13

BSR-5.5KW- 5.4KWh 15

BSR-5.5KW- 14.3KWh 17

BSR- 11KW- 10.6KWh - Eco 19

BSR- 11KW- 14.3KWh 21

BSC Series 23-33

BSC - 15KW - 27.1KWh 24

BSC - 20KW- 37.9KWh 26

BSC - 30 KW - 48.8KWh 28

BSC - 50KW - 100.4KWh 30

BSC - 100KW- 200.7KWh 32

BSI Series 34-47

BSI - 100KW- 200.7KWh 35

BSI - 150KW- 286.7KWh 37

BSI - 250KW- 473KWh 39

BSI - 500KW - 946KWh 41

BSI-Container-20FT 43

BSI-Container-40FT 46

BSE

— SERIES —

Economic Energy Storage System
Standard Proposal

- BSE-100Wp-384Wh-Eco

BSE Series

BSE-100Wp-384Wh-Eco

Economic energystorage system Standard Proposal

PV Power	Equipment	Remark
BSE-100Wp-384Wh-Eco	PV	100Wp
	PWM Controller	12V/10A
	Battery	384Wh



HIGHLIGHTS:

- reasonable system configuration , system cost effective
- lifepo4 battery , longer life span
- Equip with 12VDC and 2 USB outputs

PRODUCT TOPOLOGY



ECONOMIC ENERGYSTORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSE-100Wp-384Wh 100Wp/384Wh	PV modules	BSM100M-36	pcs	1	
	PWM Controller	BSM-SCF-24-10	pcs	1	
	Battery	BSM1230	pcs	1	
	Connector	MC4	pair	1	
	PV cable	PV1-F 1*4mm ²	m	20	

MODEL

BSE-100Wp-384Wh-Eco

System Parameter

Rated power	120W
Battery capacity	384Wh
Output voltage	12V
Max . Output Current	10A

PWM Controller Parameter

Model	BSM-SCF-24-10
Rated power	120W
Nominal Voltage	12VDC
Charging Type	PWM
USB Output	5VDC/1A *2
No-load loss	< 10mA
Max . Discharge Current	10A
Max . Charge Current	10A
Dimensions, D x W x H(mm)	190*108*41.5
Weight (Kgs)	0.245

Battery Parameter

Model	BSM1230
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	12.8
Nominal Capacity (WH)	384Wh
Voltage Range (V)	10~14.6
Max. Charge/Discharge Current(A)	30
Communicaiton	/
Dimensions, D x W x H(mm)	165*175*125
Weight (Kgs)	3.7
Design Life	5 years+
Cycle Life	>2000 @25°C

Environment

Operation humidity range	0~95% (no condensation)
Maximum operation altitude	2000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSR

— SERIES —

Residential Energy Storage System Standard Proposal

- BSR-800W-1.33KWh-Eco
- BSR-1.5KW-2.66KWh-Eco
- BSR-3.5KW-5.32KWh-Eco
- BSR-5.5KW-5.32KWh-Eco
- BSR-5.5KW-10.6KWh-Eco
- BSR-5.5KW- 5.4KWh
- BSR-5.5KW- 14.3KWh
- BSR-11KW- 10.6KWh - Eco
- BSR-11KW- 14.3KWh

BSR Series

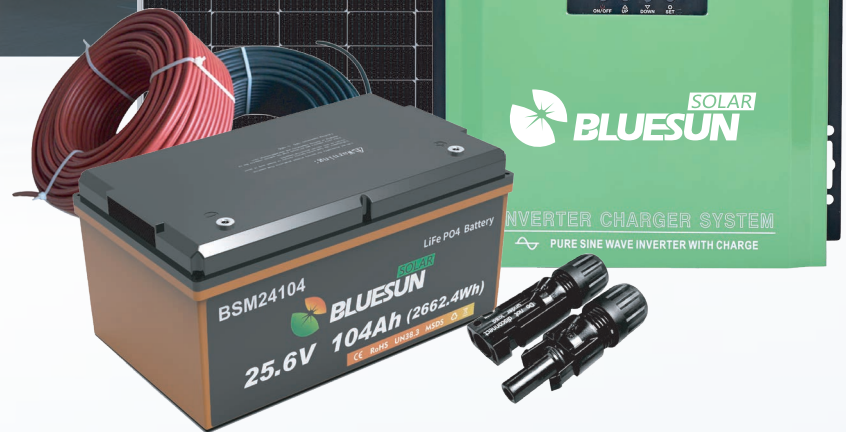
BSR-800W-1.33KWh-Eco

Residential energy storage system Standard Proposal

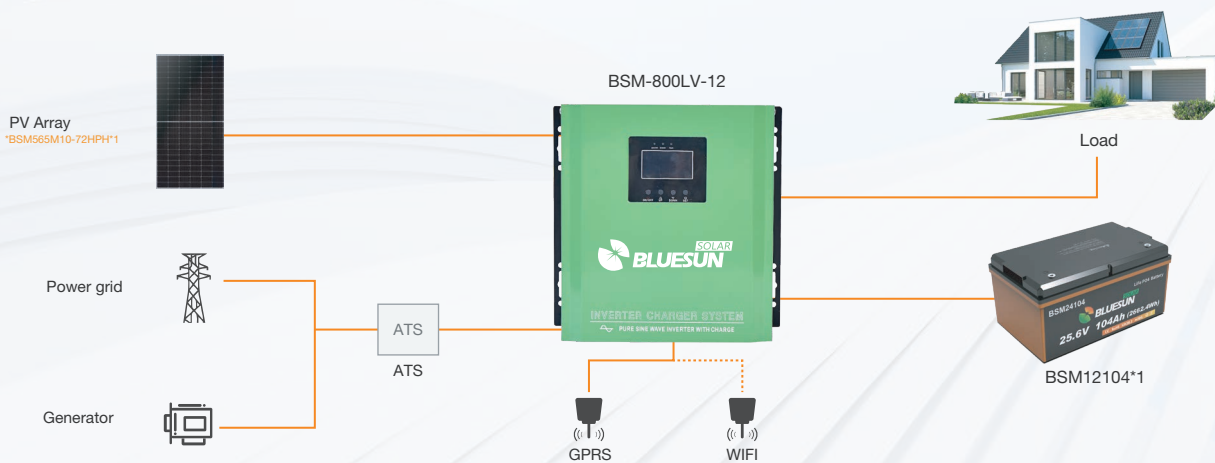
PV Power	Equipment	Remark
BSR-800W-1.33KWh-Eco	PV	565Wp
	Inverter	800W
	Battery	1331Wh

HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Optimal configuration, high cost performance ratio
- Lifepo4 battery, extra long life span



PRODUCT TOPOLOGY



RESIDENTIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSR-800W-1.33KWh 565Wp/1.5KW/1331Wh	PV modules	BSM565M10-72HPH	pcs	1	1PCS/string, 1string
	Inverter	BSM-800LV-12	pcs	1	
	Battery	BSM12104	pcs	1	Power cable included
	Connector	MC4	pair	1	
	PV cable	PV1-F 1*4mm ²	m	25	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSR-800W-1.33KWh-Eco

System Parameter

AC rated power	800W
Battery capacity	1331Wh
Ac voltage	220/230V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSM-800LV-12
Rated power	800VA /800W
Frequency	50/60 Hz
Nominal Voltage	220/230/240VAC
Peak Efficiency (PV to INV)	>85 %
Max . PV Array Open Circuit Voltage	90VDC
PV Array MPPT Voltage Range	15~80VDC
Max . Solar InputCurrent	30A
Max . Charge Current	30A
Dimensions, D x W x H(mm)	470*390*210
Weight (Kgs)	7.5

Battery Parameter

Model	BSM12104
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	12.8
Nominal Capacity (WH)	1331Wh
Voltage Range (V)	10~14.6
Max. Charge/Discharge Current(A)	100
Communicaiton	/
Dimensions, D x W x H(mm)	353*170*206
Weight (Kgs)	13
Design Life	5 years+
Cycle Life	>6000 @25°C

Environment

Operation humidity range	0~95% (no condensation)
Maximum operation altitude	2000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSR Series

BSR-1.5KW-2.66KWh-Eco

Residential energy storage system Standard Proposal

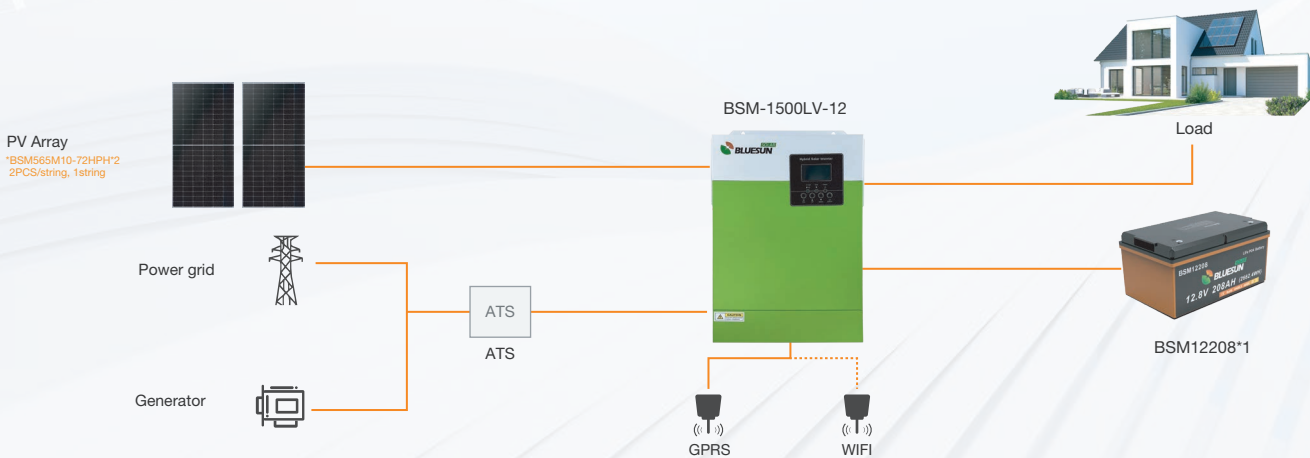
PV Power	Equipment	Remark
BSR-1.5KW-2.66KWh-Eco	PV	1130Wp
	Inverter	1.5KW
	Battery	2662Wh

HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Optimal configuration, high cost performance ratio
- Lifepo4 battery, extra long life span



PRODUCT TOPOLOGY



RESIDENTIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSR-1.5KW-2.66KWh 1130Wp/1.5kW/2662Wh	PV modules	BSM565M10-72HPH	pcs	2	2PCS/string, 1string
	Inverter	BSM-1500LV-12	pcs	1	
	Batttery	BSM12208	pcs	1	Power cable included
	Connector	MC4	pair	2	
	PV cable	PV1-F 1*4mm ²	m	50	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSR-1.5KW-2.66KWh-Eco

System Parameter

AC rated power	1500W
Battery capacity	2662Wh
Ac voltage	220/230V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSM-1500LV-12
Rated power	1500W
Frequency	50/60 Hz
Nominal Voltage	220/230/240VAC
Peak Efficiency (PV to INV)	>96 %
Max . PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	30~500VDC
Max . Solar InputCurrent	15A
Max . Charge Current	100A
Dimensions, D x W x H(mm)	330*278*98
Weight (Kgs)	3.8

Battery Parameter

Model	BSM12208
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	12.8
Nominal Capacity (WH)	2662Wh
Voltage Range (V)	10~14.6
Max. Charge/Discharge Current(A)	200
Communicaiton	/
Dimensions, D x W x H(mm)	415*251*206
Weight (Kgs)	21
Design Life	5 years+
Cycle Life	>6000 @25°C

Environment

Operation humidity range	0~95% (no condensation)
Maximum operation altitude	2000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSR Series

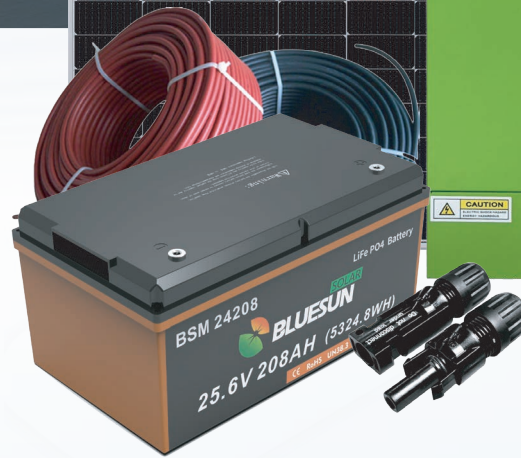
BSR-3.5KW-5.32KWh-Eco

Residential energy storage system Standard Proposal

PV Power	Equipment	Remark
BSR-3.5KW-5.32KWh-Eco	PV	2260Wp
	Inverter	3.5KW
	Battery	5324Wh

HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Optimal configuration, high cost performance ratio
- Lifepo4 battery, extra long life span



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RESIDENTIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSR-3.5KW-5.32KWh 2260Wp/3.5kW/5324Wh	PV modules	BSM565M10-72HPH	pcs	4	4PCS/string, 1string
	Inverter	BSM-3500LV-24	pcs	1	
	Battery	BSM24208	pcs	1	Power cable included
	Connector	MC4	pair	3	
	PV cable	PV1-F 1*4mm ²	m	75	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSR-3.5KW-5.32KWh-Eco

System Parameter

AC rated power	3500W
Battery capacity	5325Wh
Ac voltage	220/230V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSM-3500LV-24
Rated power	3500W
Frequency	50/60 Hz
Nominal Voltage	220/230VAC
Peak Efficiency (PV to INV)	>96 %
Max . PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	30~500VDC
Max . Solar InputCurrent	15A
Max . Charge Current	100A
Dimensions, D x W x H(mm)	330*278*98
Weight (Kgs)	3.8

Battery Parameter

Model	BSM24208
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	25.6
Nominal Capacity (WH)	5325
Voltage Range (V)	20~29.2
Max. Charge/Discharge Current(A)	200
Communicaiton	/
Dimensions, D x W x H(mm)	520*269*229
Weight (Kgs)	42
Design Life	5 years+
Cycle Life	>6000 @25°C

Environment

Operation humidity range	0~95% (no condensation)
Maximum operation altitude	2000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSR Series

BSR-5.5KW-5.32KWh-Eco

Residential energy storage system
 Standard Proposal

PV Power	Equipment	Remark
BSR-5.5KW-5.32KWh-Eco	PV	3390Wp
	Inverter	5.5KW
	Battery	5324Wh



HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Optimal configuration, high cost performance ratio
- Lifepo4 battery, extra long life span

PRODUCT TOPOLOGY



RESIDENTIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSR-5.5KW-5.3KWh 3390Wp/5.5kW/5324Wh	PV modules	BSM565M10-72HPH	pcs	6	6pcs/string, 1string
	Inverter	BSM-5500BLV-48	pcs	1	
	Batttery	BSM24104	pcs	2	Cables included
	Connector	MC4	pair	4	
	PV cable	PV1-F 1*4mm ²	m	100	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSR-5.5KW-5.3KWh-Eco

System Parameter

AC rated power	5500W
Battery capacity	5325Wh
Ac voltage	220/230V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSM-5500BLV-48
Rated power	5500W
Frequency	50/60 Hz
Nominal Voltage	220/230VAC
Peak Efficiency (PV to INV)	>96 %
Max . PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	30~500VDC
Max . Solar InputCurrent	18A
Max . Charge Current	100A
Dimensions, D x W x H(mm)	482*290*113
Weight (Kgs)	10

Battery Parameter

Model	BSM24104*2pcs
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	25.6*2
Nominal Capacity (WH)	2662*2
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	/
Dimensions, D x W x H(mm)	415*251*206*2pcs
Weight (Kgs)	21*2pcs
Design Life	5 years+
Cycle Life	>6000 @25°C

Environment

Operation humidity range	0~95% (no condensation)
Maximum operation altitude	2000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSR Series

BSR-5.5KW-10.6KWh-Eco

Residential energy storage system Standard Proposal

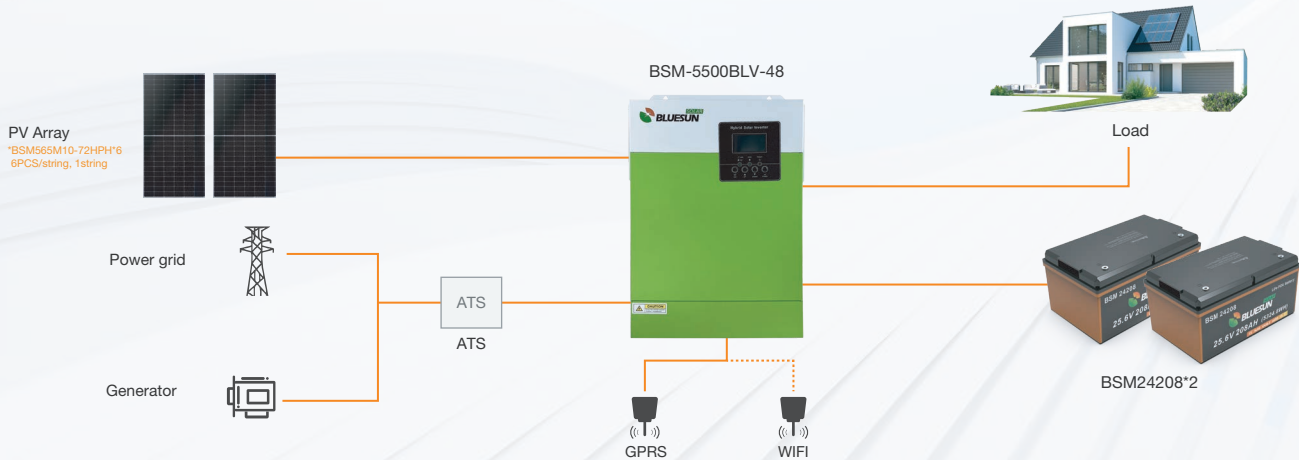
PV Power	Equipment	Remark
BSR-5.5KW-10.6KWh-Eco	PV	3390Wp
	Inverter	5.5KW
	Battery	10.6 KWh

HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Optimal configuration, high cost performance ratio
- Max support single phase 11kw output power
- Equipped with 10.6kWh lithium battery with sufficient backup power



PRODUCT TOPOLOGY



RESIDENTIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSR-5.5KW-5.4KWh 3390Wp/5.5kW/10.6kWh	PV modules	BSM565M10-72HPH	pcs	6	6pcs/string, 1string
	Inverter	BSM-5500BLV-48	pcs	1	
	Batttery	BSM24208	pcs	2	Cables included
	Connector	MC4	pair	4	
	PV cable	PV1-F 1*4mm ²	m	100	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSR-5.5KW-10.6KWh-Eco

System Parameter

AC rated power	5500W
Battery capacity	10650Wh
Ac voltage	220/230V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSM-5500BLV-48
Rated power	5500W
Frequency	50/60 Hz
Nominal Voltage	220/230VAC
Peak Efficiency (PV to INV)	>96 %
Max . PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	120~450VDC
Max . Solar InputCurrent	18A
Max . Charge Current	100A
Dimensions, D x W x H(mm)	482*290*113
Weight (Kgs)	10

Battery Parameter

Model	BSM24208*2pcs
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	25.6*2
Nominal Capacity (WH)	5325*2
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	/
Dimensions, D x W x H(mm)	520*269*229*2pcs
Weight (Kgs)	42*2pcs
Design Life	5 years+
Cycle Life	>6000 @25°C

Environment

Operation humidity range	0~95% (no condensation)
Maximum operation altitude	2000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSR Series

BSR-5.5KW-5.4KWh

Residential energy storage system Standard Proposal

PV Power	Equipment	Remark
BSR-5.5KW- 5.4KWh	PV	3390Wp
	Inverter	5.5KW
	Battery	5.4 KWh (LiFePO4)

HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Optimal configuration, high cost performance ratio
- Lithium battery and inverter communication matching



PRODUCT TOPOLOGY



RESIDENTIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSR-5.5KW-5.4KWh 3390Wp/5.5kW/ Wh	PV modules	BSM565M10-72HPH	pcs	6	6pcs/string, 1string
	Inverter	BSM-5500BLV-48	pcs	1	Communicate with battery
	Batttery	BSM48106	pcs	1	Cables included
	Connector	MC4	pair	4	
	PV cable	PV1-F 1*4mm ²	m	100	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSR-5.5KW-5.4KWh-Eco

System Parameter

AC rated power	5500W
Battery capacity	5.42KWh
Ac voltage	220/230V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSM-5500BLV-48
Rated power	5500W
Frequency	50/60 Hz
Nominal Voltage	220/230VAC
Peak Efficiency (PV to INV)	>96 %
Max . PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	120~450VDC
Max . Solar InputCurrent	18A
Max . Charge Current	100A
Dimensions, D x W x H(mm)	482*290*113
Weight (Kgs)	10

Battery Parameter

Model	BSM48106
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	5427
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	Can/485
Dimensions, D x W x H(mm)	450*451*133
Weight (Kgs)	41.4
Design Life	5 years+
Cycle Life	>6000 @25°C

Environment

Operation humidity range	0~95% (no condensation)
Maximum operation altitude	2000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSR Series

BSR-5.5KW-14.3KWh

Residential energy storage system Standard Proposal

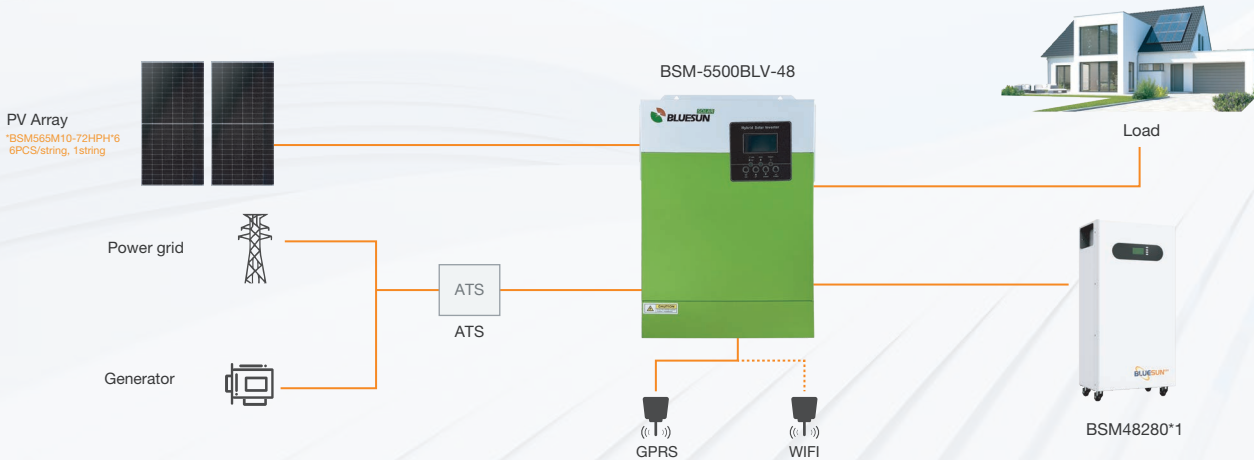
PV Power	Equipment	Remark
BSR-5.5KW- 5.4KWh	PV	3390Wp
	Inverter	5.5KW
	Battery	14.3KWh (LiFePO4)

HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- one unit 14.3kwh battery, most cost effective
- Lithium battery and inverter communication match, running perfectly



PRODUCT TOPOLOGY



RESIDENTIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSR-5.5KW-14.3KWh 3390Wp/5.5kW/14.3kWh	PV modules	BSM565M10-72HPH	pcs	6	6pcs/string, 1string
	Inverter	BSM-5500BLV-48	pcs	1	Communicate with battery
	Battery	BSM48280	pcs	1	Cables included
	Connector	MC4	pair	4	
	PV cable	PV1-F 1*4mm ²	m	100	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSR-5.5KW-14.3KWh-Eco

System Parameter

AC rated power	5500W
Battery capacity	14336Wh
Ac voltage	220/230V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSM-5500BLV-48
Rated power	5500W
Frequency	50/60 Hz
Nominal Voltage	220/230VAC
Peak Efficiency (PV to INV)	>96 %
Max . PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	120~450VDC
Max . Solar InputCurrent	18A
Max . Charge Current	100A
Dimensions, D x W x H(mm)	482*290*113
Weight (Kgs)	10

Battery Parameter

Model	BSM48280
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	14336
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	200
Communicaiton	Can/485
Dimensions, D x W x H(mm)	440*254*891
Weight (Kgs)	118
Design Life	5 years+
Cycle Life	>6000 @25°C

Environment

Operation humidity range	0~95% (no condensation)
Maximum operation altitude	2000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSR Series

BSR- 11KW- 10.6KWh - Eco

Residential energy storage system Standard Proposal

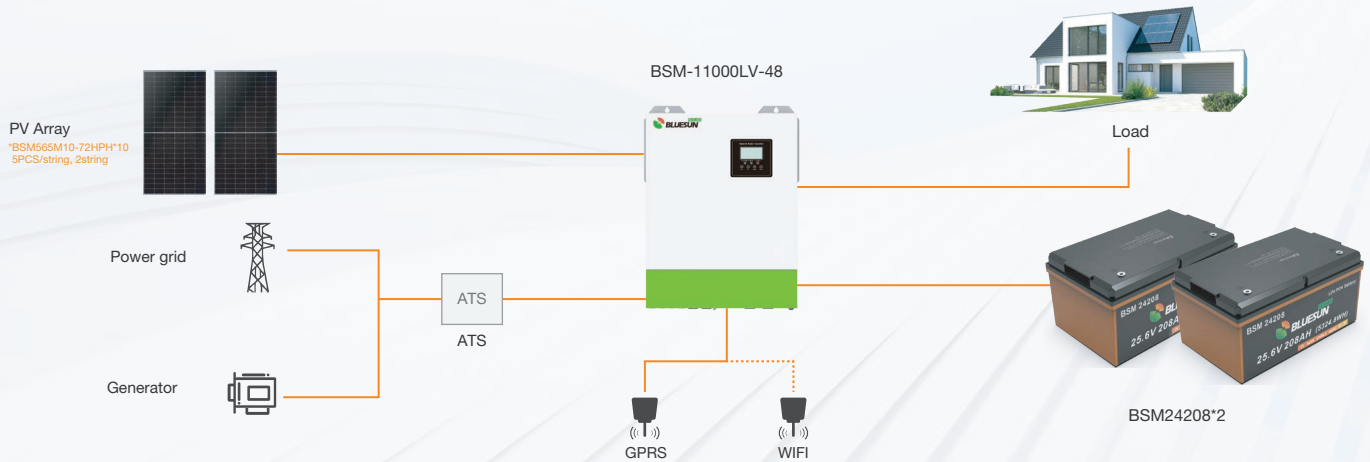
PV Power	Equipment	Remark
BSR- 11KW- 10.6KWh - Eco	PV	5.65KWp
	Inverter	11KW
	Battery	10.6KWh

HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Supports up to 11KW single-phase output
- Use lead-acid to replace batteries, which is cost-effective



PRODUCT TOPOLOGY



RESIDENTIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSR-11KW-10.6KWh 5.65kWp/11kW/10.6kWh	PV modules	BSM565M10-72HPH	pcs	10	5pcs/string, 2string
	Inverter	BSM-11000LV-48	pcs	1	Communicate with battery
	Battery	BSM24208	pcs	2	Cables included
	Connector	MC4	pair	8	
	PV cable	PV1-F 1*4mm ²	m	150	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSR-11KW-10.6KWh-Eco

System Parameter

AC rated power	11KW
Battery capacity	10.6KWh
Ac voltage	220/230V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSM-11000LV-48
Rated power	11KW
Frequency	50/60 Hz
Nominal Voltage	220/230VAC
Peak Efficiency (PV to INV)	>94 %
Max . PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	60~500VDC
Max . Solar InputCurrent	18A*2
Max . Charge Current	160A
Dimensions, D x W x H(mm)	540*415*122
Weight (Kgs)	15

Battery Parameter

Model	BSM24208*2
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	25.6*2
Nominal Capacity (WH)	5325*2
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	200
Communicaiton	/
Dimensions, D x W x H(mm)	520*269*229**2pcs
Weight (Kgs)	42*2pcs
Design Life	5 years+
Cycle Life	>6000 @25°C

Environment

Operation humidity range	0~95% (no condensation)
Maximum operation altitude	2000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSR Series

BSR- 11KW- 14.3KWh

Residential energy storage system

Standard Proposal

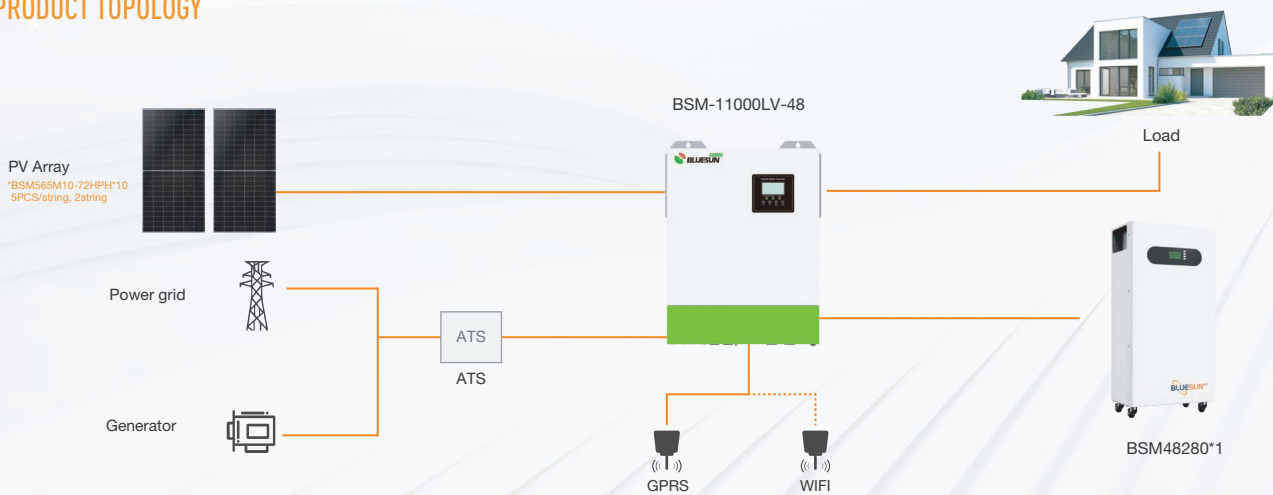
PV Power	Equipment	Remark
BSR- 11KW- 14.3KWh	PV	5.65kWp
	Inverter	11KW
	Battery	14.3KWh

HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Supports up to 11KW single-phase output
- Using 280Ah lithium battery with long backup time
- Optimal configuration , system cost effective



PRODUCT TOPOLOGY



RESIDENTIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSR-11KW-14.3KWh 5.65kWp/11kW/14.3kWh	PV modules	BSM565M10-72HPH	pcs	10	5pcs/string, 2string
	Inverter	BSM-11000LV-48	pcs	1	Communicate with battery
	Battery	BSM48280	pcs	1	Cables included
	Connector	MC4	pair	8	
	PV cable	PV1-F 1*4mm ²	m	150	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSR-11KW-14.3KWh

System Parameter

AC rated power	11KW
Battery capacity	14.3KWh
Ac voltage	220/230V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSM-11000LV-48
Rated power	11KW
Frequency	50/60 Hz
Nominal Voltage	220/230VAC
Peak Efficiency (PV to INV)	>94 %
Max . PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	60~500VDC
Max . Solar InputCurrent	18A*2
Max . Charge Current	160A
Dimensions, D x W x H(mm)	540*415*122
Weight (Kgs)	15

Battery Parameter

Model	BSM48280
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	14336
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	200
Communicaiton	Can/485
Dimensions, D x W x H(mm)	440*254*891
Weight (Kgs)	118
Design Life	5 years+
Cycle Life	>6000 @25°C

Environment

Operation humidity range	0~95% (no condensation)
Maximum operation altitude	2000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSC

— SERIES —

Commercial Energy Storage System Standard Proposal

- BSC - 15 KW - 27.1KWh
- BSC - 20KW- 37.9KWh
- BSC - 30 KW - 48.8KWh
- BSC - 50KW - 100.4KWh
- BSC - 100KW- 200.7KWh

BSC Series

BSC-15KW-27.1KWh

Commercial energy storage system

Standard Proposal

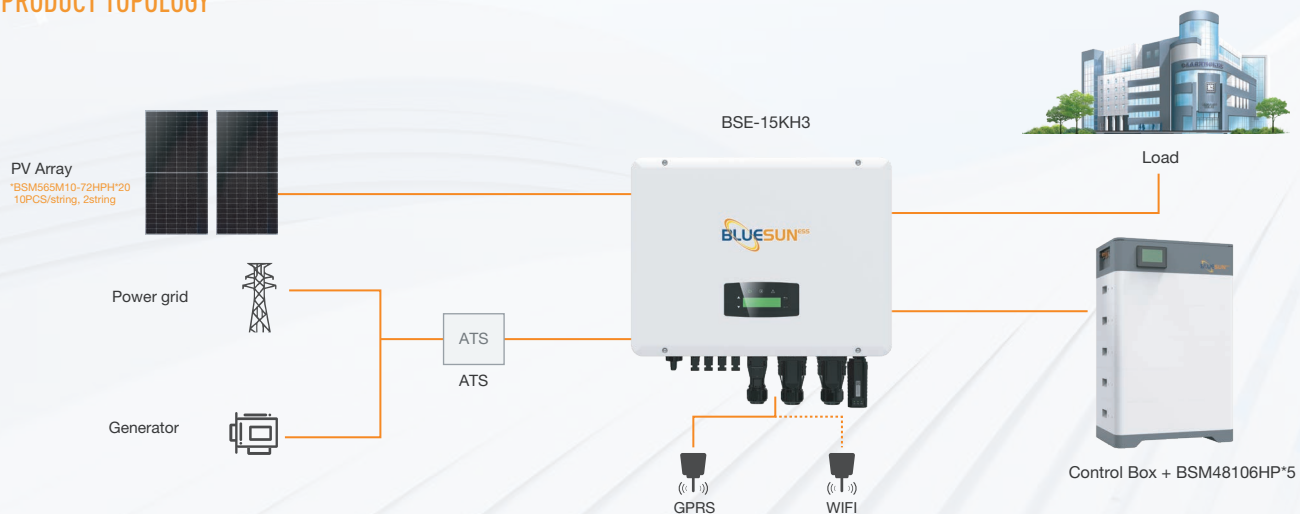
PV Power	Equipment	Remark
BSC-15KW-27.1KWh	PV	11.3kWp
	Inverter	15KW
	Battery	27.1KWh (L151 2V105Ah, 1 Rack)



HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Supports up to 15KW three-phase output
- Using stacked lithium batteries, easy to install
- Reasonable configuration and high cost performance ratio

PRODUCT TOPOLOGY



COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSC-15KW-27.1KWh 11.3kWp/15kW/27.1kWh	PV modules	BSM565M10-72HPH	pcs	20	10pcs/string, 2string
	Inverter	BSE-15KH3	pcs	1	3P/400V
	Batttery	BSM48106HP	pcs	5	Power cable included
		Control Box	pcs	1	
	Connector	MC4	pair	4	
	PV cable	PV1-F 1*4mm ²	m	200	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSC-15KW-27.1KWH

System Parameter

AC rated power	15kW
Battery capacity	27.1kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSE-15KH3
Rated power	15kVA /15kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	98.30%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	150~850VDC
Max. Solar Input Current	32A
Max. Short Current(A)	48A
Dimensions, D x W x H(mm)	558*535*260
Weight (Kgs)	29

Battery Parameter

Model	BSM48106HP*5
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	5427
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	RS485/RS232/CAN
Weight (Kgs)	291
Design Life	10 years+
Cycle Life	>6000 @25°C

Environment

Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSC Series

BSC-20KW-37.9KWh

Commercial energy storage system

Standard Proposal

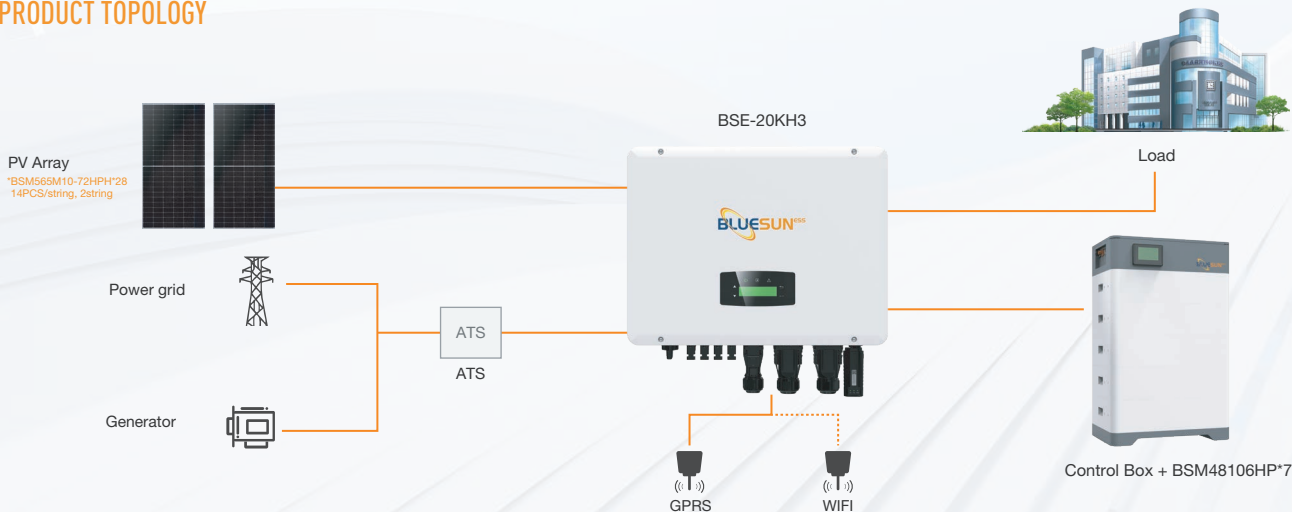
PV Power	Equipment	Remark
BSC-20KW-37.9KWh	PV	15.8kWp
	Inverter	20KW
	Battery	37.9KWh (U791.2V/106Ah, 1 Rack)



HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Supports up to 20KW three-phase output
- Using stacked lithium batteries, easy to install
- Reasonable configuration and high cost performance ratio

PRODUCT TOPOLOGY



COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSC-20KW-37.9KWh 15.8kWp/20kW/37.9kWh	PV modules	BSM565M10-72HPH	pcs	28	14pcs/string, 2string
	Inverter	BSE-20KH3	pcs	1	3P/400V
	Battery	BSM48106HP	pcs	7	Power cable included
		Control Box	pcs	1	
	Connector	MC4	pair	4	
	PV cable	PV1-F 1*4mm ²	m	200	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSC-20KW-37.9KWh

System Parameter

AC rated power	20kW
Battery capacity	37.9kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSE-20KH3
Rated power	20kVA /20kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	98.30%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	150~850VDC
Max. Solar Input Current	32A
Max. Short Current(A)	48A
Dimensions, D x W x H(mm)	558*535*260
Weight (Kgs)	29

Battery Parameter

Model	BSM48106HP*7
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	5427
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	RS485/RS232/CAN
Weight (Kgs)	388
Design Life	10 years+
Cycle Life	>6000 @25°C

Environment

Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSC Series

BSC-30KW-48.8KWh

Commercial energy storage system

Standard Proposal

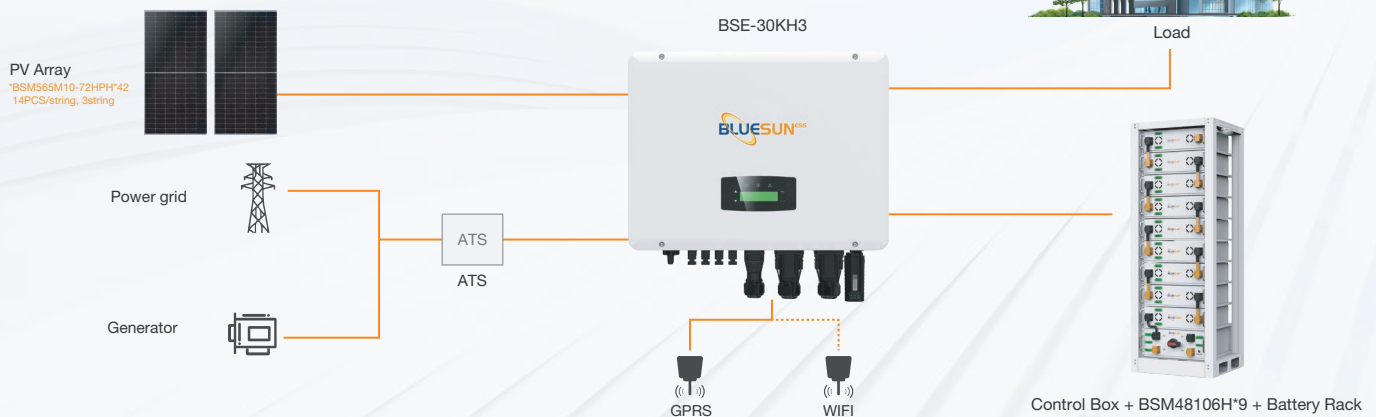
PV Power	Equipment	Remark
BSC-30KW-48.8KWh	PV	23.7kWp
	Inverter	30KW
	Battery	48.8KWh (LUS91.2V/106H, 1 Rack)



HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Supports up to 30KW three-phase output
- The entire system has been fully tested and works perfectly
- Optimal configuration, high cost performance ratio

PRODUCT TOPOLOGY



COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSC-30KW-48.8KWh 23.7kWp/30kW/48.8kWh	PV modules	BSM565M10-72HPH	pcs	42	14pcs/string, 3string
	Inverter	BSE-30KH3	pcs	1	3P/400V
	Battery	BSM48106H	pcs	9	Power cable included
		Control Box	pcs	1	
		Battery Rack	pcs	1	2*5layers
	Connector	MC4	pair	4	
	PV cable	PV1-F 1*4mm ²	m	300	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSC-30KW-48.8KWh

System Parameter

AC rated power	30kW
Battery capacity	48.8kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSE-30KH3
Rated power	30kVA /30kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	98.50%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	150~850VDC
Max. Solar Input Current	40A
Max. Short Current(A)	60A
Dimensions, D x W x H(mm)	558*535*260
Weight (Kgs)	26

Battery Parameter

Model	BSM48106H*9
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	5427
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	100
Communicaiton	RS485/CAN
Weight (Kgs)	453.5
Design Life	10 years+
Cycle Life	>6000 @25°C

Environment

Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSC Series

BSC-50KW-100.4KWh

Commercial energy storage system

Standard Proposal

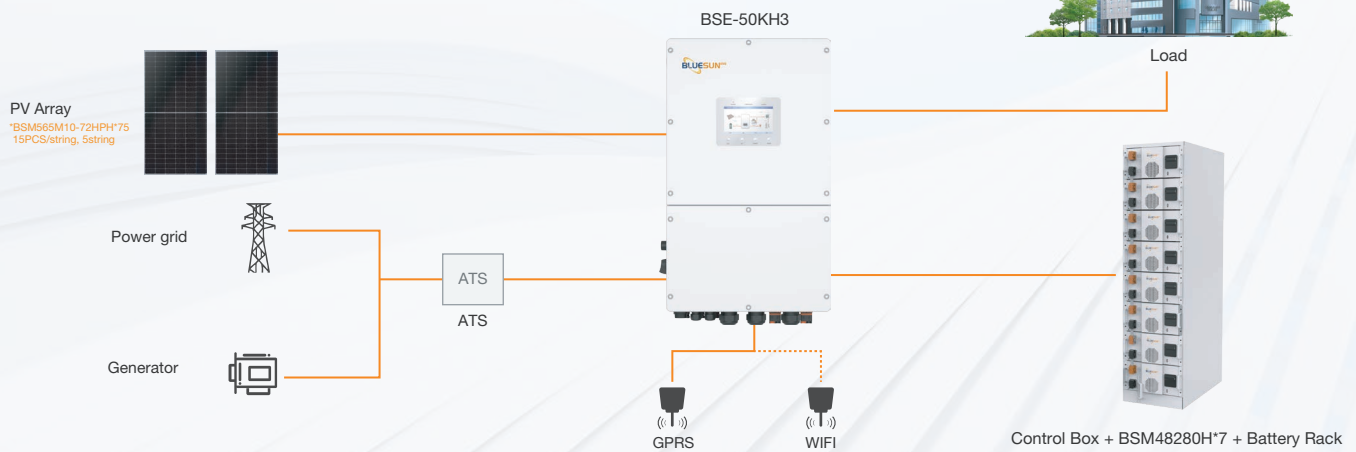


PV Power	Equipment	Remark
BSC-50KW-100.4KWh	PV	42.4kWp
	Inverter	50KW
	Battery	100.4KWh (L17*51.2V/200Ah, 1 Rack)

HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Supports up to 50KW three-phase output
- The entire system has been fully tested and works perfectly
- Optimal configuration, high cost performance ratio

PRODUCT TOPOLOGY



COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSC-50KW-100.4KWh 42.4kWp/50kW/100.4KWh	PV modules	BSM565M10-72HPH	pcs	75	15pcs/string, 5string
	Inverter	BSE-50KH3	pcs	1	3P/400V
	Battery	BSM48280H	pcs	7	Power cable included
		Control Box	pcs	1	
		Battery Rack	pcs	1	1*8layers
	Connector	MC4	pair	4	
	PV cable	PV1-F 1*4mm ²	m	500	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSC-50KW-100.4KWh

System Parameter

AC rated power	50kW
Battery capacity	100.4kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSE-50KH3
Rated power	50kVA /50kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	97.80%
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	150~850VDC
Max. Solar Input Current	40A
Max. Short Current(A)	60A
Dimensions, D x W x H(mm)	290*530*880
Weight (Kgs)	73

Battery Parameter

Model	BSM48280H*7
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	14336
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	280
Communicaiton	RS485/CAN
Weight (Kgs)	930.4
Design Life	10 years+
Cycle Life	>6000 @25°C

Environment

Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSC Series

BSC-100KW-200.7KWh

Commercial energy storage system

Standard Proposal

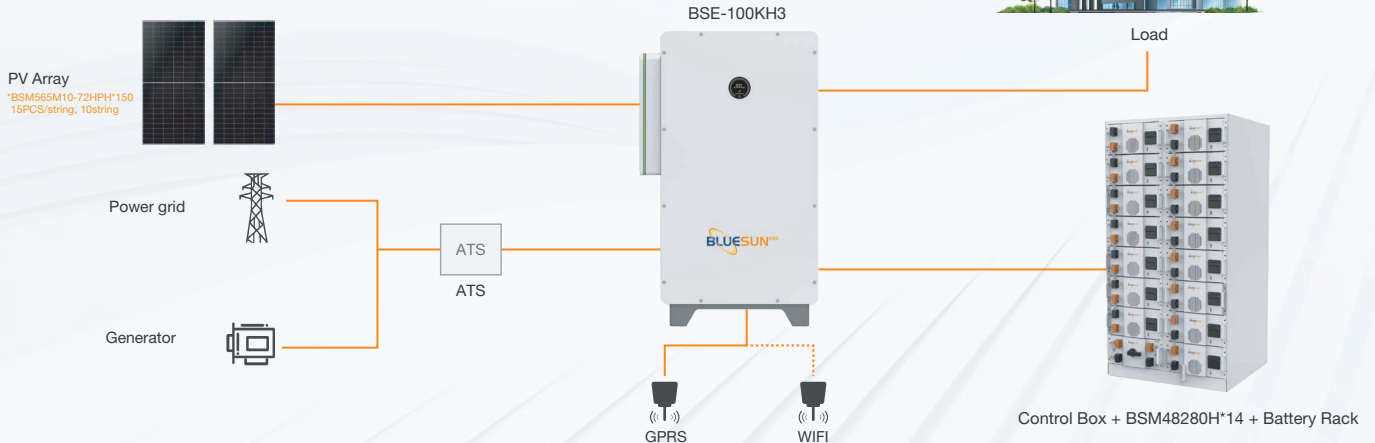
PV Power	Equipment	Remark
BSC-100KW-200.7KWh	PV	84.8kWp
	Inverter	100KW
	Battery	200.7KWh (LIFE512V2000Ah, 1 Rack)

HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- Supports up to 100KW three-phase output
- The entire system has been fully tested and works perfectly
- Optimal configuration, high cost performance ratio



PRODUCT TOPOLOGY



COMMERCIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark
BSC-100KW-200.7KWh 84.8kWp/100kW/200.7kWh	PV modules	BSM565M10-72HPH	pcs	150	15pcs/string, 10string
	Inverter	BSE-100KH3	pcs	1	3P/400V
	Battery	BSM48280H	pcs	14	Power cable included
		Control Box	pcs	1	BAU included
		Battery Rack	pcs	1	2*8layers
	Connector	MC4	pair	4	
	PV cable	PV1-F 1*4mm ²	m	1000	
	Moniting	WIFI module	pcs	1	Optional

MODEL

BSC-100KW-200.7KWh

System Parameter

AC rated power	100kW
Battery capacity	200.7kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BSE-100KH3
Rated power	100kVA /100kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Max. Efficiency	98.20%
Max. PV Voltage (V)	1100VDC
PV Array MPPT Voltage Range	180~800VDC
Max. Solar Input Current	32A
Max. Short Current(A)	40A
Dimensions, D x W x H(mm)	510*820*1350
Weight (Kgs)	160

Battery Parameter

Model	BSM48280H*14
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	14336
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	280
Communicaiton	RS485/CAN
Weight (Kgs)	1744.5
Design Life	10 years+
Cycle Life	>6000 @25°C

Environment

Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSI

— SERIES —

Industrial Energy Storage System Standard Proposal

- BSI - 100KW- 200.7KWh
- BSI - 150KW- 286.7KWh
- BSI - 250KW- 473KWh
- BSI - 500KW - 946KWh
- BSI-Container-20FT
- BSI-Container-40FT

BSI Series

BSI-100KW-200.7KWh

Industrial Energy Storage System

Standard Proposal

PV Power	Equipment	Remark
BSI-100KW-200.7KWh	PV	81.4kWp
	Inverter	100KW
	Battery	200.7KWh (LFP51.2V/105Ah, 1PACK)



HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- With multiple operating modes to meet customer needs
- Optimal configuration, high cost performance ratio

PRODUCT TOPOLOGY



INDUSTRIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark	
BSI-100KW-200.7KWh 81.4kWp/100kW/200.7kWh	PV modules	BSM565M10-72HPH	pcs	144	12pcs/string, 12string	
	PV Combiner Box	6 Inputs 1 Output	pcs	2	6 Inputs 1 Output	
	Inverter	BMPS100	pcs	1	3P/400V	
	Battery		BSM48280H	pcs	14	51.2V/280Ah
			Control Box	pcs	1	BCU included
			Battery Rack	pcs	1	
	Connector	MC4	pair	45		
	PV cable	PV1-F 1*4mm ²	m	1200		
EMS	BR3000	pcs	1	Optional		

MODEL

BSI-100KW-200.7KWh

System Parameter

AC rated power	100kW
Battery capacity	200.7kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BMPS100
Rated power	100kVA /100kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Overload capability	110%-10min120%-1min
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	250~850VDC
Max PV power	120/180/240KW
Cooling	Forced-air
Dimensions, D x W x H(mm)	800*1200*2050
Weight (Kgs)	1120

Battery Parameter

Model	BSM48280H*14
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	14336
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	280
Communication	RS485/CAN
Weight (Kgs)	1744.5
Design Life	10 years+
Cycle Life	>6000 @25°C

Environment

Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSI Series

BSI-150KW-286.7KWh

Industrial Energy Storage System Standard Proposal

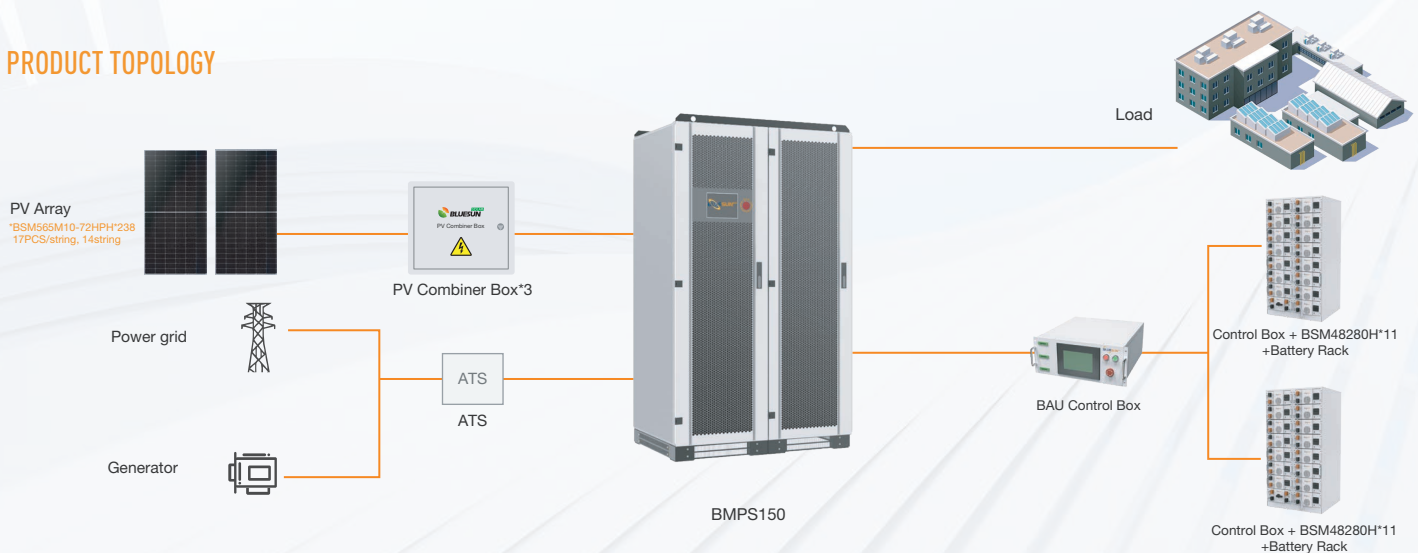
PV Power	Equipment	Remark
BSI-150KW-286.7KWh	PV	134.5kWp
	Inverter	150KW
	Battery	286.7KWh <small>1 U22*51.2V/100Ah, 2 Racks</small>



HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- With multiple operating modes to meet customer needs
- Optimal configuration, high cost performance ratio

PRODUCT TOPOLOGY



INDUSTRIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark	
BSI-150KW-286.7KWh 134.5kWp/150kW/286.7kWh	PV modules	BSM565M10-72HPH	pcs	238	17pcs/string, 14string	
	PV Combiner Box	5 Inputs 1 Output	pcs	3	5 Inputs 1 Output	
	Inverter	BMPS150	pcs	1	3P/400V	
	Battery		BSM48280H	pcs	22	51.2V/280Ah
			Control Box	pcs	2	BCU included
			Battery Rack	pcs	2	2*6 layers
			BAU Control Box	pcs	1	BAU included
	Connector	MC4	pair	55		
PV cable	PV1-F 1*4mm ²	m	1500			
EMS	BR3000	pcs	1	Optional		

MODEL

BSI-150KW-286.7KWh

System Parameter

AC rated power	150kW
Battery capacity	286.7kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BMPS150
Rated power	150kVA /150kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Overload capability	110%-10min/120%-1min
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	250~850VDC
Max PV power	120/180/240KW
Cooling	Forced-air
Dimensions, D x W x H(mm)	800*1200*2050
Weight (Kgs)	1150

Battery Parameter

Model	BSM48280H*22
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	14336
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	280
Communication	RS485/CAN
Weight (Kgs)	2791.2
Design Life	10 years+
Cycle Life	>6000 @25°C

Environment

Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSI Series

BSI-250KW-473KWh

Industrial Energy Storage System

Standard Proposal

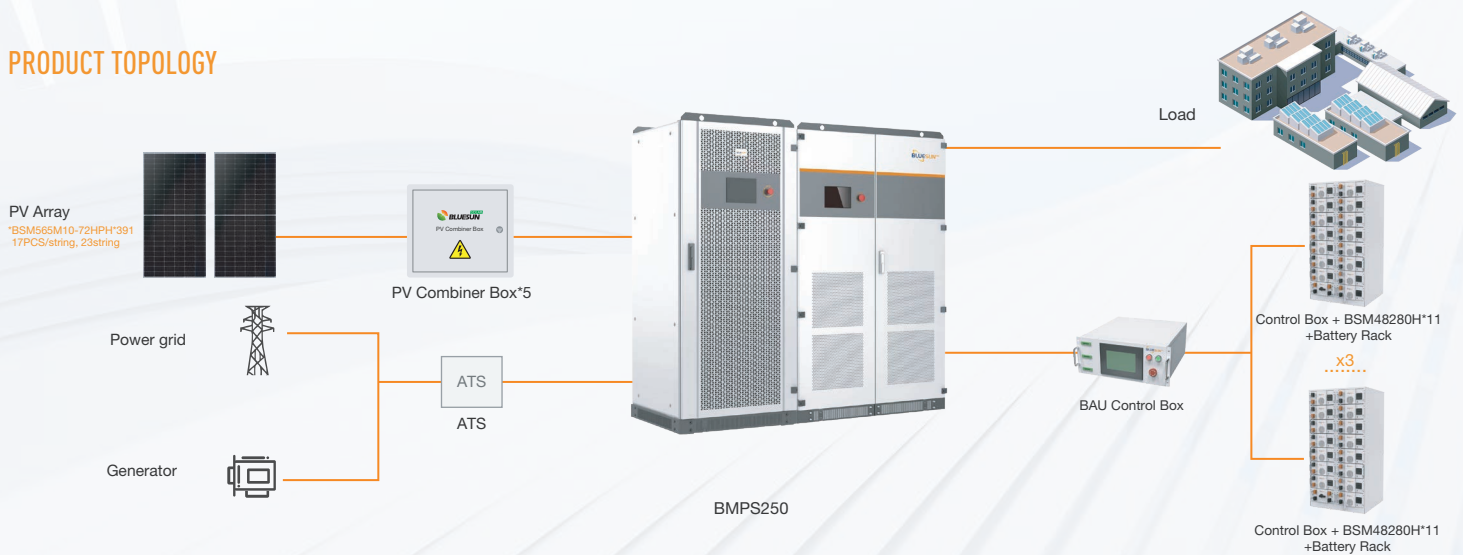
PV Power	Equipment	Remark
BSI-250KW-473KWh	PV	220.9kWp
	Inverter	250KW
	Battery	473KWh <small>(U335*1.2V/100Ah_3_Packs)</small>



HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- With multiple operating modes to meet customer needs
- Optimal configuration, high cost performance ratio

PRODUCT TOPOLOGY



INDUSTRIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark	
BSI-250KW-473KWh 220.9kWp/250kW/473kWh	PV modules	BSM565M10-72HPH	pcs	391	17pcs/string, 23string	
	PV Combiner Box	5 Inputs 1 Output	pcs	5	5 Inputs 1 Output	
	Inverter	BMPS250	pcs	1	3P/400V	
	Battery		BSM48280H	pcs	33	51.2V/280Ah
			Control Box	pcs	3	BCU included
			Battery Rack	pcs	3	2*6 layers
			BAU Control Box	pcs	1	BAU included
	Connector	MC4	pair	92		
PV cable	PV1-F 1*4mm ²	m	2300			
EMS	BR3000	pcs	1	Optional		

MODEL

BSI-250KW-473KWh

System Parameter

AC rated power	250kW
Battery capacity	473kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BMPS250
Rated power	250kVA /250kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Overload capability	110%-10min/120%-1min
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	250~850VDC
Max PV power	300/360KW
Cooling	Forced-air
Dimensions, D x W x H(mm)	800*1200*2050
Weight (Kgs)	1980

Battery Parameter

Model	BSM48280H*33
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	14336
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	280
Communication	RS485/CAN
Weight (Kgs)	4186.8
Design Life	10 years+
Cycle Life	>6000 @25°C

Environment

Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

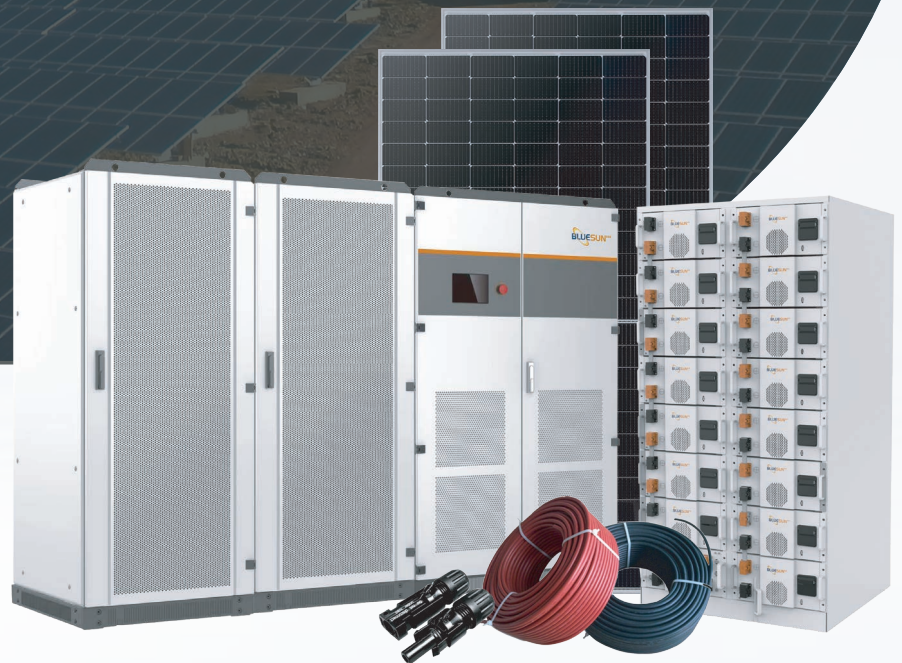
BSI Series

BSI-500KW-946KWh

Industrial Energy Storage System

Standard Proposal

PV Power	Equipment	Remark
BSI-250KW-473KWh	PV	432.2kWp
	Inverter	500KW
	Battery	946KWh (109951.2V/105Ah, 6/360k)



HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- With multiple operating modes to meet customer needs
- Optimal configuration, high cost performance ratio

PRODUCT TOPOLOGY



INDUSTRIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL

PV Power	Equipment	Model	Unit	Quantity	Remark	
BSI-500KW-946KWh 432.2kWp/500kW/946kWh	PV modules	BSM565M10-72HPH	pcs	765	17pcs/string, 45string	
	PV Combiner Box	5 Inputs 1 Output	pcs	10	5 Inputs 1 Output	
	Inverter	BMPS500	pcs	1	3P/400V	
	Batttery		BSM48280H	pcs	66	51.2V/280Ah
			Control Box	pcs	6	BCU included
			Battery Rack	pcs	6	2*6 layers
			BAU Control Box	pcs	1	BAU included
	Connector	MC4	pair	184		
PV cable	PV1-F 1*4mm ²	m	4500			
EMS	BR3000	pcs	1	Optional		

MODEL

BSI-500KW-946KWh

System Parameter

AC rated power	500kW
Battery capacity	946kWh
AC voltage	3P/400V
Rated grid frequency	50/60Hz

Inverter Parameter

Model	BMPS500
Rated power	500kVA /500kW
Frequency	50/60 Hz
Nominal Voltage	230/400VAC
Overload capability	110%-10min/120%-1min
Max. PV Voltage (V)	1000VDC
PV Array MPPT Voltage Range	250~850VDC
Max PV power	600/660/720KW
Cooling	Forced-air
Dimensions, D x W x H(mm)	800*2800*2050
Weight (Kgs)	3265

Battery Parameter

Model	BSM48280H*66
Battery Type	LiFePO4(LFP)
Nominal Voltage (V)	51.2
Nominal Capacity (WH)	14336
Voltage Range (V)	44.8~57.6
Max. Charge/Discharge Current(A)	280
Communication	RS485/CAN
Weight (Kgs)	8373.6
Design Life	10 years+
Cycle Life	>6000 @25°C

Environment

Maximum operation altitude	4000m
Working Temperature	0°~ 50°C Charge ; -10°~ 50°C Discharge
Shelf Temperature	-20°~ 60°C

BSI Series

BSI-Container-20FT

250KW/860KWH

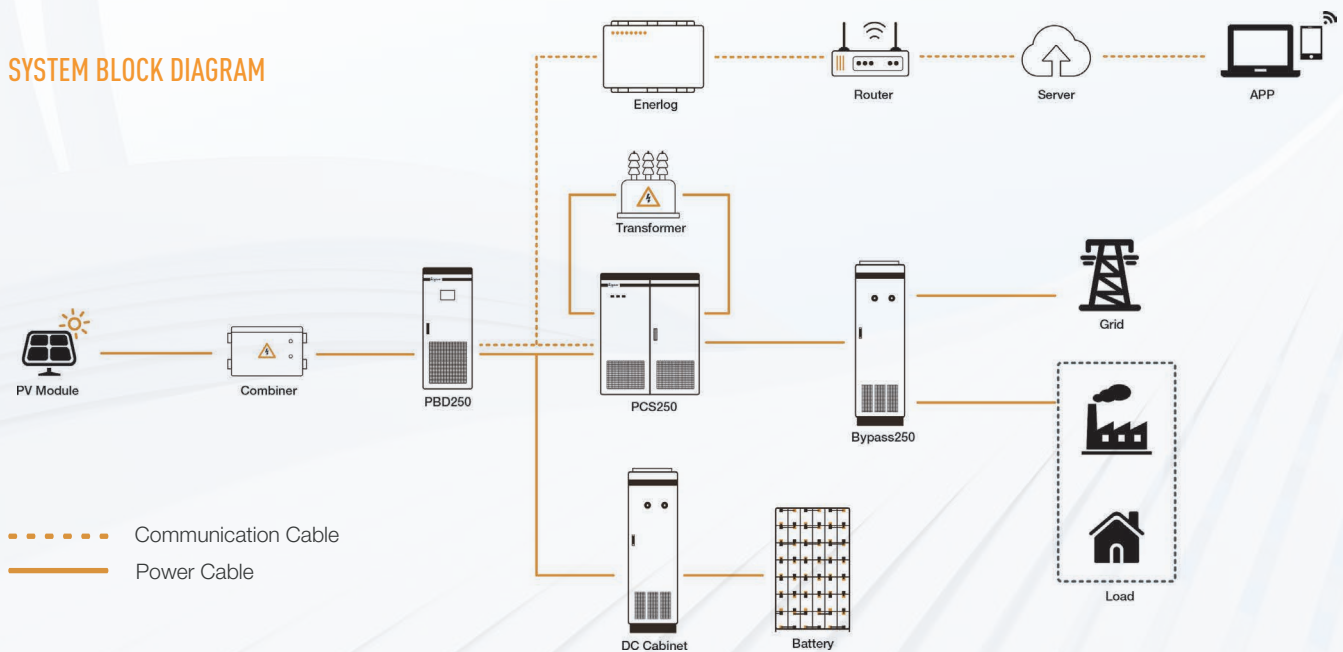
Industrial Energy Storage System

Standard Proposal

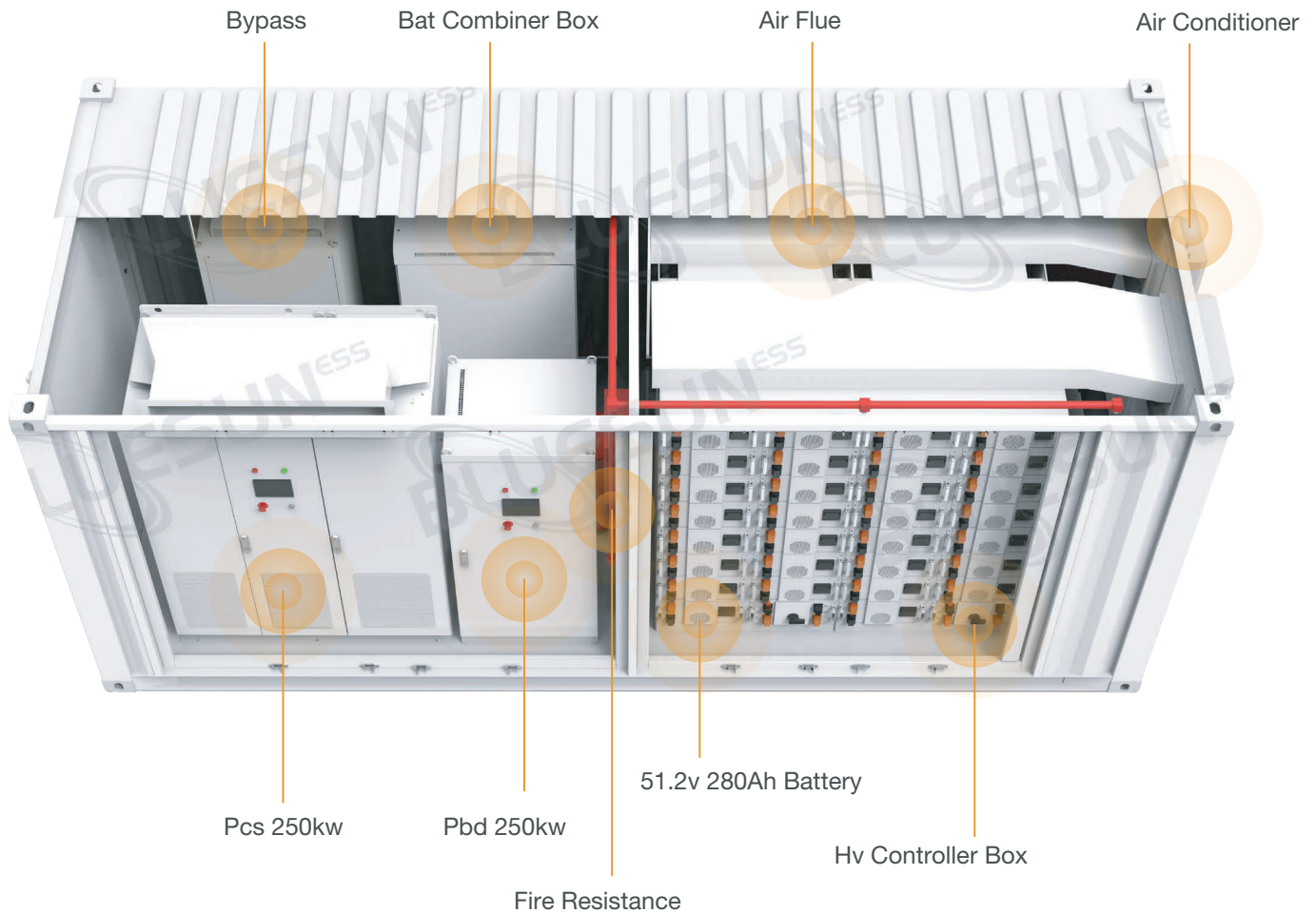
- Bluesun provides the integrated system solution with one stop service
- With multiple operating modes to meet customer needs
- Optimal configuration, high cost performance ratio



SYSTEM BLOCK DIAGRAM



System Block Diagram



Item	Quantity		Description	Comments
PV	BSM565M10-72HPH	480	12 pieces/string; A total of 40 strings; A total of 268.8kWp	
Battery 860.16KWH (688.12KWH available at 80% DOD) Backup	BAT-Combiner box 1000V-1500A	1	For combination of multiple battery racks	
	BLUESUN-51.2V 280AH module	60	Battery With BMU module 51.2V 280AH Capacity 14.3kWh	
	BLUESUN-HV-Controller1000V 300A	4	High Voltage Controller Box	
PV-Combiner Box	8 Inputs 1 Output	5	For combination of multiple PV module strings	
PBD250		1	250kW solar charge controller	
PCS250		1	250kW battery inverter	
Bypass 250		1	Switch between on-grid and off-grid	
EnerLog		1	Monitoring datalogger	
20FT Container		1	For outdoor installation, IP54,including lighting, fire-resistance system, battery rack,air conditioner	

BSI Series

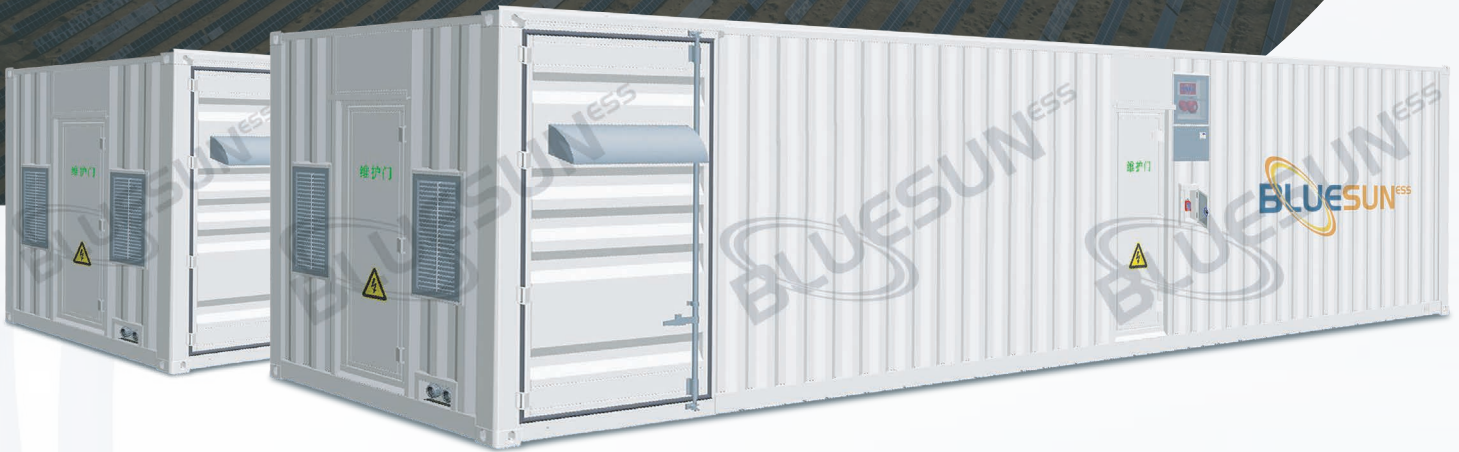
BSI-Container-40FT

500KW/2150KWH

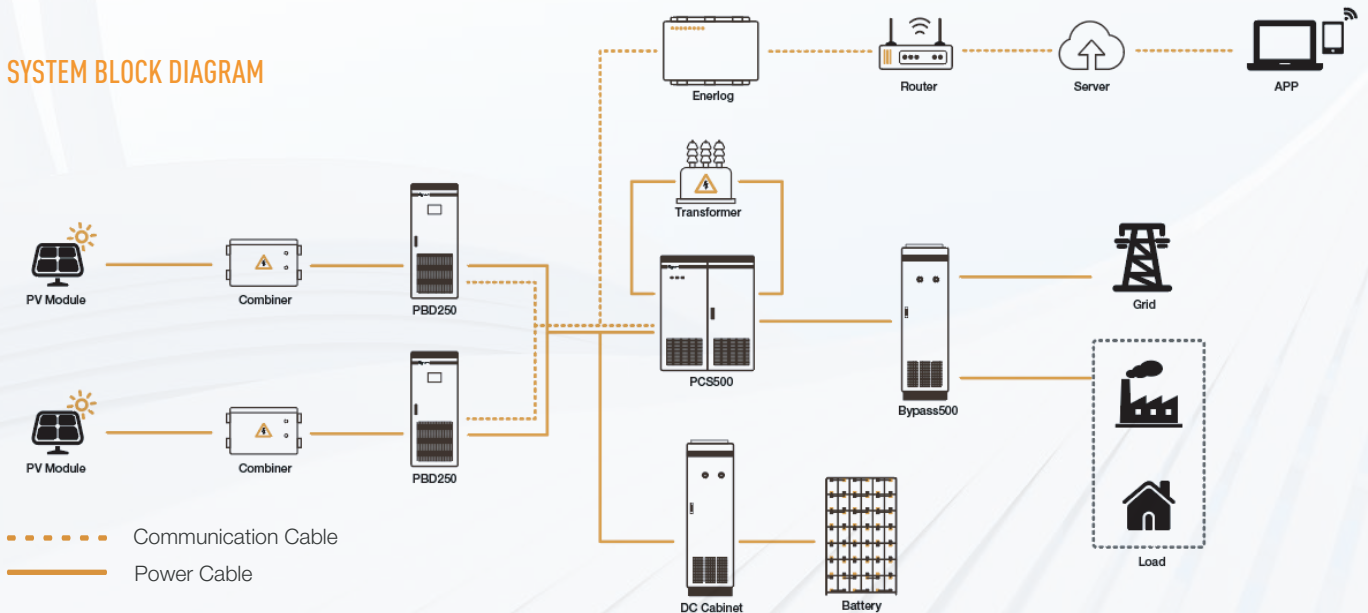
Industrial Energy Storage System

Standard Proposal

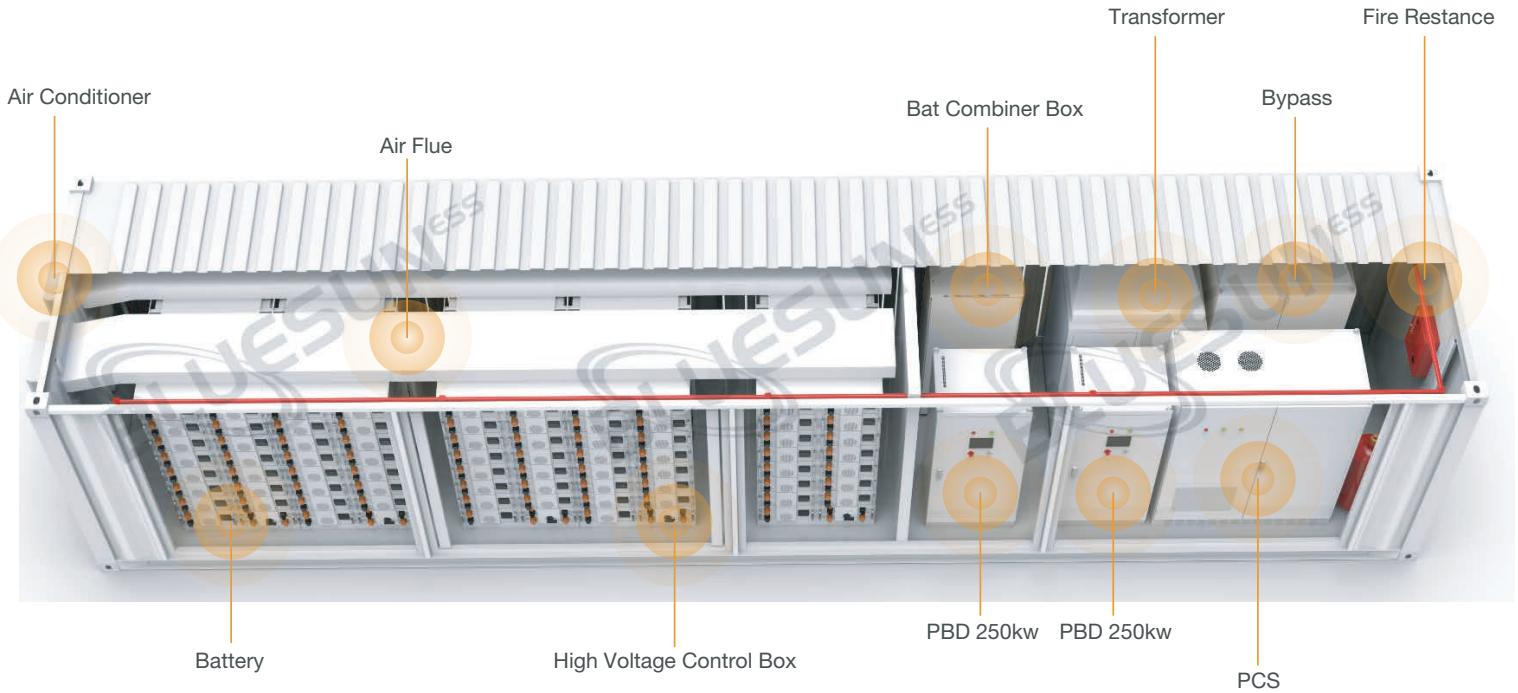
- Bluesun provides the integrated system solution with one stop service
- With multiple operating modes to meet customer needs
- Optimal configuration, high cost performance ratio



SYSTEM BLOCK DIAGRAM



System Block Diagram



Item	Quantity		Description	Comments
PV	BSM565M10-72HPH	960	12 pieces/string; A total of 80 strings; A total of 537.6kWp	
Battery 2150.4KWH (1720.32KWH available at 80% DOD) Backup	BAT-Combiner box 1000V-1500A	1	For combination of multiple battery racks	
	BLUESUN-51.2V 280AH module	150	Battery With BMU module 51.2V 280AH Capacity 14.3kWh	
	BLUESUN-HV-Controller1000V 300A	10	High Voltage Controller Box	
PV-Combiner Box	8 Inputs 1 Output	10	For combination of multiple PV module strings	
PBD250		2	250kW solar charge controller	
PCS500		1	250kW battery inverter	
Isolation Transformer 500		1	500KVA Isolation Transformer	
Bypass 500		1	Switch between on-grid and off-grid	
EnerLog		1	Monitoring datalogger	
40FT Container		1	For outdoor installation, IP54,including lighting, fire-resistance system, battery rack,air conditioner	

Bluesun Container

Features of BMS

Battery status monitoring

- Events record and storage function
- Operation control
- Insulation detection
- Dynamic balancing management
- Protection alarms
- Communication

BMU:

Battery Management Unit

BECU:

Battery Electric Controller Unit

BSMU:

Batter System Management Unit

Fire Protection system

- Automatic fire detecting
- Manual/automatic fire alarming
- Control room and local fire alarm device
- Fault alarm for fire detecting and alarming system
- The accumulator is placed in fire alarming controller. When the main power is off, the accumulator will supply the power to the automatic fire alarming system
- The monitoring function for the open circuit and short circuit in detecting circuit
- The monitoring function for the open circuit and short circuit in alarming circuit

Features of PCS

- Wide-range of DC input voltage
- 10% additional power for continuous operation at ambient temperature up to 40 °C
- Short conversion time of full power from charge to discharge
- Indoor or outdoor installation
- Low voltage ride through
- Reactive power adjustable, max. reactive power up to 500kVar
- Active power derating
- Film capacitor design

Air Condition System

- Power-off memory And Reboot
- Remote fault identification and alarm, and report the fault through RS485
- Use the fuzzy intelligence control for remote communication
- Have the cooling, heating, constant temperature and dehumidifying mode
- Heating control
- Temperature control
- Operation without failure continuous more than 2500 hours, Long life, good working performance in harsh environment



Bluesun Solar Co., Ltd.

Add:1499 Zhenxing Road, Shushan District,230031 Hefei,China

Tel: +86 (158) 5821 3997 E-mail:info@bluesunpv.com
Fax:+86 (551) 6565 2651 Http: www.bluesunpv.com

