

# Lithium Battery

- Modular design, light weight, small size.
- More than 10 years long service life.
- High compatibility BMS, seamless communication with energy storage inverter.
- Suitable for long-term charge and discharge cycle.



Lithium battery pack/ Stacked , Wall mounting and Rack mounting has the advantages of high safety performance, long life span, wide charge voltage range, simple installation, and standard modular design.

Lithium battery pack/ Stacked , Wall mounting and Rack mounting can be widely used in household energy storage, industrial and commercial energy storage and other fields.

# BSM Series



BASIC PARAMETERS	BSM12104	BSM12208	BSM24104
Nominal Voltage (V)	12.8	12.8	25.6
Nominal Capacity (KWH)	1.356	2.713	2.713
Usable Capacity (KWH)	1.221	2.441	2.441
Charge Voltage (V)	14.6	14.6	29.2
Discharge Voltage (V)	10	10	20
Battery System Discharge Current (Standard)	50	100	50
Battery System Discharge Current (Max)	100	200	100
Peak Charge/Discharge Current(A)	120(2S)	240(2S)	120(2S)
Communicaiton	/		
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge		
Shelf Temperature	-20°C~60°C		
Certification	CE/IEC/UL/UN38.3/MSDS		
Design Life	10 years+		
Size(mm)	353*170*206	415*251*206	415*251*206
Weight(KGS)	12.5	21.1	21.1
Cycle Life <sup>①</sup>	>6000		

[1] Test conditions: 0.2C Charging/Discharging,@25°C, 80%Dod

## SUPPLEMENTARY EXPLANATION:

This 12V/24V Lithium Iron Phosphate battery pack is designed and manufactured by BLUESUN. It is widely used in Energy Storage System, Instrument, Medical Equipment, Financial/Commercial Equipment, Security/Electric Power Equipment, Robot etc. It could replace 12V/24V Lead Acid battery pack, it is environmentally-friendly, and with long service life. This article mainly describes its appearance, size, electrical specifications, warning and tips, etc.

# 51.2V 280AH

High voltage

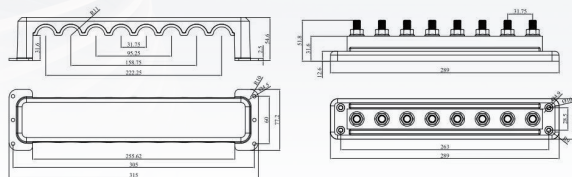
LIFEP04 battery module



No.	Product Type	BSM48280H
1	Cell Technology	Li-ion(LFP)
2	Battery Module Capacity (KWH)	14.336
3	Battery Module Voltage (Vdc)	51.2
5	Battery Cell Voltage (Vdc)	3.2
6	Battery Cell Capacity (AH)	280
7	Battery Module Cell Quantity in Series and Parallel	16S1P
8	Battery Module Charge Voltage(Vdc)	56
9	Battery System Charge Current(Standard)	140
10	Battery Module Charge Current(Normal)	140
11	Battery Module Charge Current(Max)	280
12	Battery Module Discharge Lower-Voltage(Vdc)	44.8
13	Battery System Discharge Current (Standard)	140
14	Battery Module Charge Current (Normal)	140
15	Battery Module Charge Current (Max)	280
16	Efficiency	98%
17	Depth of Discharge	90%
18	Dimension(W*D*H, mm)	905*500*235
19	Communication	RS485
20	Protection Class	IP22
21	Weight(KGS)	116.3
22	Operation Life	>10 years
23	Operation Cycle Life	>6000
24	Operation Temperature	0°C~50°C Charge -10°C ~50°C Discharge
25	Storage Temperature	-20°C~60°C
26	Product Certificate	CE/IEC/UL
27	Transfer Certificate	UN38.3/MSDS

# BSM Series

## Low Voltage PACK



BASIC PARAMETERS	BSM48106	BSM4850
Nominal Voltage (V)	51.2	48
Nominal Capacity (KWH)	5.427	2.400
Usable Capacity (KWH)	4.884	2.160
Charge Voltage (V)	58.4	54.7
Discharge Voltage (V)	40	37.5
Battery System Discharge Current (Standard)	50	25
Battery System Discharge Current (Max)	100	50
Peak Charge/Discharge Current(A)	120(2S)	60(2S)
Communication	RS485/RS232/CAN	
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge	
Shelf Temperature	-20°C~60°C	
Certification	CE/IEC/UL/UN38.3/MSDS	
Design Life	10 years+	
Size(mm)	450*451*133	450*415*88.5
Weight(KGS)	41.4	32
Cycle Life <sup>[1]</sup>	>6000	

[1] Test conditions: 0.2C Charging/Discharging,@25°C, 80%DoD

### SUPPLEMENTARY EXPLANATION:

BSM Series are lithium iron phosphate battery system produced by BLUESUN., which can be used to provide safe, reliable, and stable energy for various equipment. At the same time, the module supports expansion on both capacity and power by multiple parallel uses. It supports CAN, RS485, RS232 communication, and can meet the requirements of various PV inverter communication protocols.

BSM has the advantages of high safety performance, long life span, wide charging voltage range, simple installation, and standard modular design.

Products can be widely used in household energy storage, industrial and commercial energy storage and other fields.

# BSMW Series

## Wall Mounted Low Voltage Lithium Battery



WiFi APP  
download:



BASIC PARAMETERS	BSM48106W	BSM48212W
Nominal Voltage (V)	51.2	51.2
Nominal Capacity (KWH)	5.427	10.854
Usable Capacity (KWH)	4.884	9.769
Charge Voltage (V)	58.4	58.4
Discharge Voltage (V)	40	40
Battery System Discharge Current (Standard)	50	100
Battery System Discharge Current (Max)	100	200
Peak Charge/Discharge Current(A)	120(2S)	240(2S)
Communication	RS485/RS232/CAN	
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge	
Shelf Temperature	-20°C~60°C	
Certification	CE/IEC/UL/UN38.3/MSDS	
Design Life	10 years+	
Size(mm)	447*161*664	814*161*664
Weight(KGS)	53	95.1
Cycle Life <sup>[1]</sup>	>6000	

[1] Test conditions: 0.2C Charging/Discharging,@25°C, 80%DoD

### ENERGY STORAGE SOLUTIONS

LiFePO4 chemistry battery with safety performance and longer cycle life, offering you various capacities to meet more of your requirements.

TUV Certified · CEC accredited · IP65 Protection · Flexible Expansion

BLUESUN SOLAR CO.,LTD.

Tel: +86 (158) 5821 3997 | Fax: +86 (551) 6565 2651 | E-mail: info@bluesunpv.com  
Add: 1499 Zhenxing Road, Shushan District, 230031 Hefei, China



\*Release BLUESUN Battery Series-2023-12-Rev01-EN

# BSMW Series

## Vertical Low Voltage Lithium Battery



WiFi APP download:



BASIC PARAMETERS	BSM48280W
Nominal Voltage (V)	51.2
Nominal Capacity (AH)	280
Usable Capacity (KWH)	14.336
Charge Voltage (V)	58.4
Discharge Voltage (V)	40
Battery System Discharge Current (Standard)	100
Battery System Discharge Current (Max)	200
Peak Charge/Discharge Current(A)	240(2S)
Communicaiton	RS485/RS232/CAN
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge
Shelf Temperature	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10 years+
Size(mm)	440*254*891
Weight(KGS)	117.6
Cycle Life <sup>①</sup>	>6000

[1] Test conditions: 0.2C Charging/Discharging,@25°C, 80%DoD



**Tailor-made Cabinet**  
Suitable for multi-module installation



**Easy to Install**  
Plug and play



**Larger Capacity**  
More energy for long time use



**High Safety**  
LFP&smart BMS



**Wide Compatibility**  
Matching with leading inverter brands



**Wide Temperature Range**  
Range of -20~50°C

# BSMLP Series

## Stackable Low Voltage Lithium Battery



WiFi APP download:



### BASIC PARAMETERS

### BSM4850LP

Nominal Voltage (V)	51.2
Nominal Capacity (KWH)	2.560*N <sup>[1]</sup>
Usable Capacity (KWH)	2.304*N
Charge Voltage (V)	58.4
Discharge Voltage (V)	40
Battery System Discharge Current (Standard)	25*S <sup>[1]</sup>
Battery System Discharge Current (Max)	50*S
Peak Charge/Discharge Current(A)	60(2S)*S
Communication	RS485/RS232/CAN
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge
Shelf Temperature	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10 years+
Size(mm)	Battery: 680*221*200*N+Control module: 680*221*167+ Battery base: 680*221*76.5
Weight(KGS)	Battery: 24*N+Control module: 10+ Battery base: 4
Cycle Life <sup>[1]</sup>	>6000

[1] Test conditions: 0.2C Charging/Discharging,@25°C, 80%Dod

[2] "N" is the battery module quantity, N ≤ 8

[3] "S" follow "N", but "S" ≤ 4

# BSMLP Series

## Stackable Low Voltage Lithium Battery



WiFi APP download:



### BASIC PARAMETERS

### BSM48106LP

Nominal Voltage (V)	51.2
Nominal Capacity (KWH)	5.427*N <sup>[1]</sup>
Usable Capacity (KWH)	4.884*N
Charge Voltage (V)	58.4
Discharge Voltage (V)	40
Battery System Discharge Current (Standard)	50*S <sup>[2]</sup>
Battery System Discharge Current (Max)	100*S
Peak Charge/Discharge Current(A)	120(2S)*S
Communication	RS485/RS232/CAN
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge
Shelf Temperature	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10 years+
Size(mm)	Battery: 600*400*167*N+Control module: 600*400*163+ Battery base: 600*400*76
Weight(KGS)	Battery: 46*N+Control module: 13+ Battery base: 8
Cycle Life <sup>[3]</sup>	>6000

[1] Test conditions: 0.2C Charging/Discharging,@25°C, 80%DoD

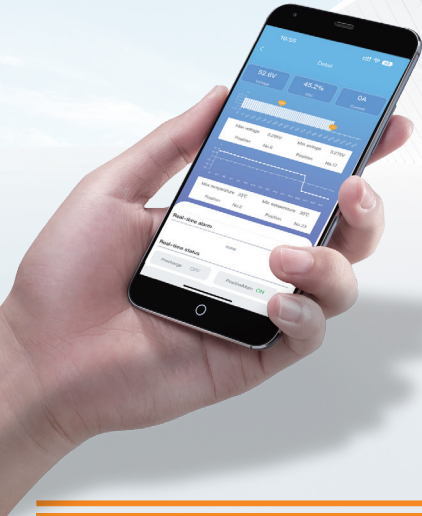
[2] "N" is the battery module quantity, N ≤ 8

[3] "S" follow "N", but "S" ≤ 4



# BSMHP Series

## Stackable High Voltage Lithium Battery



### WiFi APP download:

iPhone: apple store search "bluesun"

Android: [https://www.ievcloud.com/app\\_bncn.html](https://www.ievcloud.com/app_bncn.html)



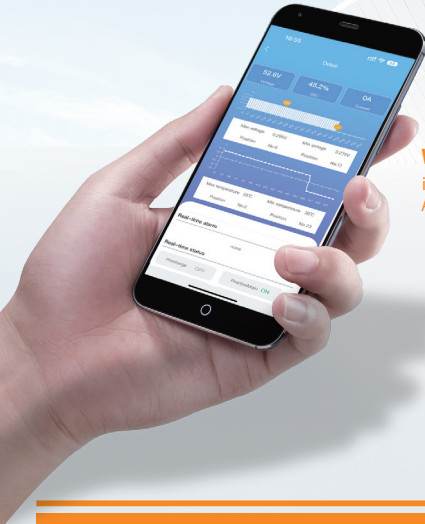
BASIC PARAMETERS	BSM4850HP
Nominal Voltage (V)	51.2*N <sup>[1]</sup>
Nominal Capacity (KWH)	2.560*N
Usable Capacity (KWH)	2.304*N
Charge Voltage (V)	58.4*N
Discharge Voltage (V)	40*N
Battery System Discharge Current (Standard)	25
Battery System Discharge Current (Max)	50
Peak Charge/Discharge Current(A)	60(2S)
Communication	RS485/RS232/CAN
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge
Shelf Temperature	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10 years+
Size(mm)	Battery: 680*220*200*N+Control module: 680*220*167+ Battery base: 680*220*69
Weight(KGS)	Battery: 25.9*N+Control module: 13+ Battery base: 5
Cycle Life <sup>[1]</sup>	>6000

[1] Test conditions: 0.2C Charging/Discharging.@25°C, 80%DoD [2] "N" is the battery module quantity, N ≤ 8

- IP54**  
Installation outdoor
- Design Empilhados**  
No wire connection
- Flexible expansion**  
Various energy  
16.2~43.2KWH
- High energy density**  
High system efficiency
- Inverter compatibility testing**  
Adapt various inverter
- WiFi Application**  
All time run monitor via wifi

# BSMHP Series

## Stackable High Voltage Lithium Battery



### WiFi APP download:

iPhone: apple store search "bluesun"

Android: [https://www.ievcloud.com/app\\_bncn.html](https://www.ievcloud.com/app_bncn.html)



BASIC PARAMETERS	BSM48106HP
Nominal Voltage (V)	51.2*N <sup>[1]</sup>
Nominal Capacity (KWH)	5.427*N
Usable Capacity (KWH)	4.884*N
Charge Voltage (V)	58.4*N
Discharge Voltage (V)	40*N
Battery System Discharge Current (Standard)	50
Battery System Discharge Current (Max)	100
Peak Charge/Discharge Current(A)	120(2S)
Communication	RS485/RS232/CAN
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge
Shelf Temperature	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10 years+
Size(mm)	Battery: 600*400*162*N+Control module: 600*409*152+ Battery base: 600*400*72
Weight(KGS)	Battery: 48.5*N+Control module: 17+ Battery base: 9
Cycle Life <sup>[1]</sup>	>6000

[1] Test conditions: 0.2C Charging/Discharging,@25°C, 80%DoD [2] "N" is the battery module quantity, N ≤ 8



IP54

Installation outdoor



Design Empilhados

No wire connection



Flexible expansion

Various energy  
16.2~43.2KWH



High energy density

High system efficiency



Inverter compatibility testing

Adapt various inverter



WiFi Application

All time run monitor via wifi

# BLUESUN-Cloud

From the Bluesun BMS to the cloud, the BMS intelligent battery management system of Bluesun Technology is equipped with the battery data cloud platform Cloud, which will provide you with information.

- Software and hardware information online traceability, real-time reporting of operating data, product status in the master, so that the battery is always online.
- Real-time alarm warning, earlier than the customer to find hidden dangers, prevention.
- For the first time in China, the BMS program is upgraded in the air, and the algorithm strategy is continuously updated online. Since then, BMS has life and will grow.
- Massive operation data collection, big data analysis and processing, re-calibration of battery parameters, personalized management of each battery.



Task List

Show 50 records per page

search:

SN	OTA No.	No.	FWID	Upgrade Qty.	Completed Qty.	Created at	State	End Time	Logs
1	OTAD6XH473301	D807.000.001.01	FD6XH215001	1	1	2023-06-30 17:47:33	Success	2023-06-30 19:10:07	<a href="#">查看</a>
2	OTAD6XF443401	D807.000.002.01	FD67F483801	1	1	2023-06-30 15:44:34	Success	2023-06-30 16:05:42	<a href="#">查看</a>
3	OTAD6XB411701	D807.000.002.01	FD67F501101	1	1	2023-06-30 11:41:17	Success	2023-06-30 12:04:26	<a href="#">查看</a>
4	OTAD6SG014801	D807.000.002.01	FD67F464601	1	1	2023-06-25 16:01:48	Success	2023-06-25 16:50:08	<a href="#">查看</a>
5	OTAD6HG572101	D807.000.002.01	FD67D305101	1	1	2023-06-17 16:57:21	Success	2023-06-17 20:04:08	<a href="#">查看</a>
6	OTAD6HG151501	D807.000.001.01	FD3XJ575701	1	1	2023-06-17 16:15:15	Success	2023-06-17 16:35:53	<a href="#">查看</a>
7	OTAD6HG092601	D807.000.002.01	FD67D305101	1	0	2023-06-17 16:09:26	Upgrading	-	<a href="#">查看</a>
8	OTAD3GE592801	D807.000.002.01	FD39A404201	1	1	2023-03-16 14:59:28	Success	2023-03-17 20:59:54	<a href="#">查看</a>
9	OTACBRG173901	D807.000.001.01	FCAMK081301	1	1	2022-11-24 16:17:39	Success	2022-11-24 16:26:26	<a href="#">查看</a>

From 1 to 9 / Total 9 records

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Bluesun series BMS host module is the first in the industry to support program remote Over the air upgrade (OTA: Over the air)

The battery data cloud platform provides you with a powerful and convenient OTA batch upgrade experience!

# BSMRH Series

## High Voltage RACK



BASIC PARAMETERS	BSM48106RH	BSM24212RH
Nominal Voltage (V)	51.2*N	25.6*N
Nominal Capacity (WH)	5427.2*N	5427.2*N
Usable Capacity (WH)	4884.48*N	4884.48*N
Charge Voltage (V)	58.4*N	29.2*N
Discharge Voltage (V)	40*N	20*N
Battery System Discharge Current (Standard)	50	100
Battery System Discharge Current (Normal)	100	200
Peak Charge/Discharge Current(A)	120(2S)	240(2S)
Communicaiton	RS485/RS232/CAN	
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge	
Shelf Temperature	-20°C~60°C	
Certification	CE/IEC/UL/UN38.3/MSDS	
Design Life	10 years+	
Size(mm)	1450*840*1890	
Weight(KGS)	1350	
Cycle Life <sup>①</sup>	>6000	

[1] Test conditions: 0.2C Charging/Discharging,@25°C, 80%Dod

# BSMH Series

## High Voltage PACK



### BASIC PARAMETERS

### BSM48280H

Nominal Voltage (V)	716.8
Nominal Capacity (KWH)	200.7
Usable Capacity (KWH)	180.6
Charge Voltage (V)	817.6
Discharge Voltage (V)	560
Battery System Discharge Current (Standard)	140
Battery System Discharge Current (Max)	280
Peak Charge/Discharge Current(A)	300(2S)
Communicaiton	RS485/RS232/CAN
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge
Shelf Temperature	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10 years+
Size(mm)	1350*1250*2250
Weight(KGS)	2400
Cycle Life <sup>①</sup>	>6000

[1] Test conditions: 0.2C Charging/Discharging,@25°C, 80%Dod

# BSMM- Series 30KW/60KWH



## BASIC PARAMETERS

## BSM48106RH

Nominal Voltage (V)	563.2
Nominal Capacity (KWH)	59.6
Usable Capacity (KWH)	53.6
Charge Voltage (V)	642.4
Discharge Voltage (V)	440
Battery System Discharge Current (Standard)	50
Battery System Discharge Current (Max)	100
Peak Charge/Discharge Current(A)	120(2S)
Communicaiton	RS485/CAN
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge
Shelf Temperature	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10 years+
Size(mm)	850*850*1850
Weight(KGS)	750
Cycle Life <sup>(1)</sup>	>6000

[1] Test conditions: 0.2C Charging/Discharging,@25°C, 80%DoD

# BSMM-Series 50KW/80KWH

**80KWH Energy  
Storagesystem**    **50KW Hybrid  
Inverter**



## BASIC PARAMETERS

## BSM48106RH

Nominal Voltage (V)	768
Nominal Capacity (KWH)	81.4
Usable Capacity (KWH)	73.2
Charge Voltage (V)	876
Discharge Voltage (V)	600
Battery System Discharge Current (Standard)	50
Battery System Discharge Current (Max)	100
Peak Charge/Discharge Current(A)	120(2S)
Communication	RS485/CAN
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge
Shelf Temperature	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10 years+
Size(mm)	2300*840*1890
Weight(KGS)	2100
Cycle Life <sup>[1]</sup>	>6000

[1] Test conditions: 0.2C Charging/Discharging, @25°C, 80%DoD

# BSMM-Series 100KW/200KWH

200KWH Energy  
Storagesystem

100KW Hybrid  
Inverter



## BASIC PARAMETERS

## BSM48280RH

Nominal Voltage (V)	716.8
Nominal Capacity (KWH)	200.7
Usable Capacity (KWH)	180.6
Charge Voltage (V)	876
Discharge Voltage (V)	600
Battery System Discharge Current (Standard)	140
Battery System Discharge Current (Max)	280
Peak Charge/Discharge Current(A)	300(2S)
Communicaiton	RS485/CAN
Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge
Shelf Temperature	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10 years+
Size(mm)	2200*1250*2250
Weight(KGS)	3150
Cycle Life <sup>[1]</sup>	>6000

[1] Test conditions: 0.2C Charging/Discharging,@25°C, 80%Dod



# ? WHY CHOOSE US

Bluesun, found in 2004, as a famous photovoltaic and Lithium battery manufacturer , solar power plants provider in the world, is devoted to the R&D and the production of lithium batteries for over 5 years.

Bluesun's business footprint covers more than 170 countries and regions around the world, with more than 1000 industry- leading partners like BYD , Svolt , DFD , Great Power and so on , two overseas warehouses , seven offices and over 10 distributors. And the historical shipments exceeded 3.65GWH. Bluesun developed own BMS and we aim to become the most trusted ESS company through continuous innovation and excellent management.

**170**

Countries And Regions  
Around The World

**1000**

1000 Industry- Leading  
Partners

**3.56**<sup>GWH</sup>

Two Overseas  
Warehouses

**2**

Two Overseas  
Warehouses

**7&10**

Seven Offices And  
Over 10 Distributors

**BMS**

Bluesun Developed  
Own Bms



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