

EAST Inter Li Lithium Battery System Specialist

**Outstanding listed company
in digital energy products
and wind/solar energy storage
and charging solutions**

<https://en.eastups.com/>



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Five Advantages of EAST Lithium Battery

Wireless Transmission Technology

- User can know the battery operation status at any time, view the detailed information of the battery through the background software: total voltage, total current, SOC, SOH, cell voltage temperature, etc., and provide real-time information and history data to view, effectively lower maintenance costs.

Low Power-consumption Technology

- Battery power consumption is low in the standby mode, self-developed BMS intelligent control technology, standby power consumption lower than 0.5W, thus improving the battery energy utilization and solving the serious power consumption problem during battery product delivery and storage.

Charge Management Technology

- Lead-acid batteries can be float-charged for a long time, but lithium batteries long-term high-voltage float charging will be under saturation charging for a long time, which will lead to serious loss of life, independent research and development of intelligent charging management technology, adopt intelligent intermittent charging strategy technology, to avoid lithium batteries are in the high-voltage float charging, to better ensure that the service life of the battery system power reserve capacity.

High Precision Inspection

- High-precision voltage, current, temperature detection, and multi-point temperature design, ensure that the battery will not be overcharged and high-current damage to the battery cell, as well as to ensure the safe use of the battery within the set temperature range.

Distributed SOC Estimation

- Distributed SOC estimation is used for each battery to carry out in-depth energy management for each battery, effectively improving the battery system life.

High-end Advanced Equipment and Production Line



Full-automatic solder paste printing machine



Online 3D SPI solder paste detection system



Rotary multi-head high-speed high-precision full automatic SMT machine

Product Core Advantages

Excellent Technology Innovation

- Using advanced CAE simulation and analysis platform, complete the whole-life simulation analysis of the battery system on different occasions, to guide the design and optimization of the battery thermal management system, so that the battery system has a high heat transfer efficiency, good reliability, strong temperature control capability, etc., which can improve the battery system overall performance of the battery pack in the working state, and at the same time, foreknowledge in advance of some of the safety risks, and do a good job of the relevant countermeasures during the design to avoid the occurrence of battery system safety accidents.

Strong Technical Team

- The company has a post-doctoral, doctoral, master's and bachelor's degree R&D team specialized in power electronics and batteries, independently developing large-scale energy storage systems and battery PACK systems, home energy storage systems, 5G+ battery backup systems, and UPS battery backup systems for various industries, and all series of battery systems have the advantages of high safety, high reliability, high portability, and long service life.

Focused on Energy Storage Industry

- The company focuses on the research and development, production and service of new energy storage systems, and is committed to becoming a global leader in total solutions for energy storage systems.

High-end Advanced Equipment and Production Line



Multi-temperature zone hot reflow soldering and AOI automated optical inspection system



Online lithium cell multi-grade sorting test system



Fully automatic cell stack assembly and optical positioning welding system



Robot optical positioning laser welding battery core&BMS system



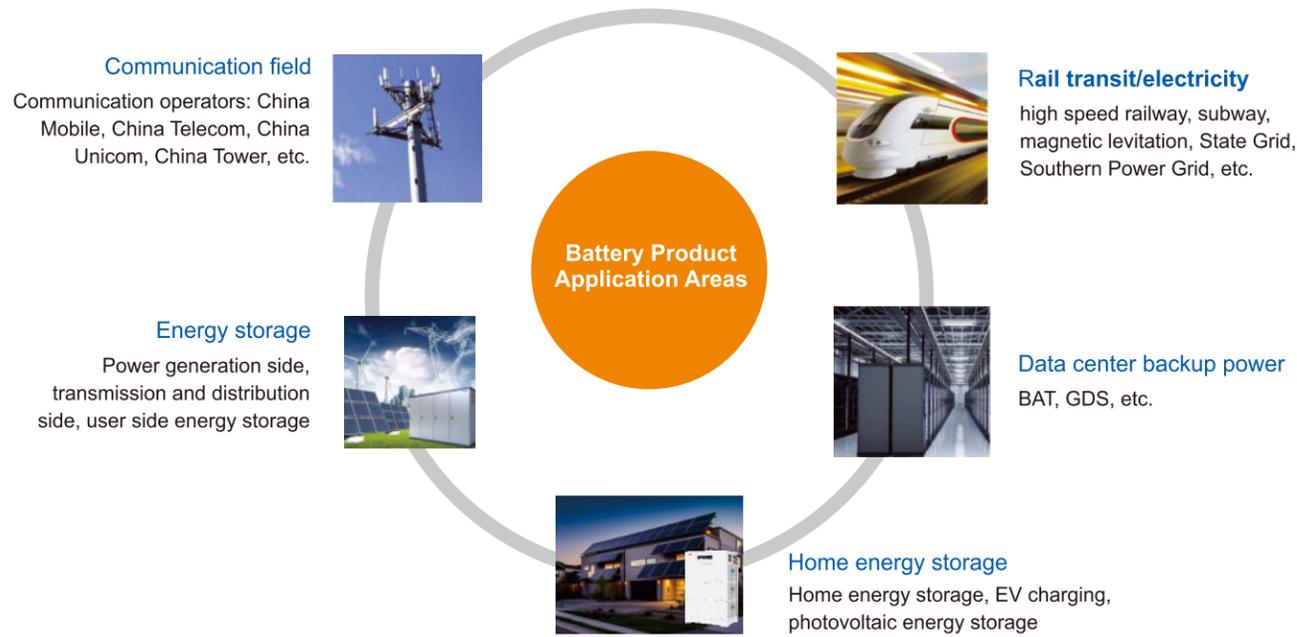
Intelligent automatic production line



International most advanced SMT production line

Product Application Areas

Battery Product Application Areas



Battery Industry Product Line



PRODUCT SERIES

Low Voltage Lithium-ion Battery System

ECB series communication base station lithium-ion products are high-tech products for 5G era, which are developed by a team of experts in structural design, BMS hardware and software development, simulation test, and intelligent manufacturing. This series of products with its integration, lightweight, intelligent centralized monitoring, battery maintenance and management, unattended, energy-saving and environmentally friendly, excellent electrical performance, hardware and software protection, etc., can be adapted to different environments, and can provide safe and reliable uninterruptible power supply for a variety of loads.

ECB48104R15S1P system, support the same model machines to parallel, up to 6 groups.

Product Features

- Standard chassis design
- High-safety lithium iron battery system
- Long life design, battery pack cycle life up to 3000 times
- Output short-circuit protection function
- Overload, under-voltage, over-temperature protection function
- Supports charge activation, wake-up activation
- Supports charge equalization and charge current limiting
- Supports 485 communication, supports data upload to cloud system



Model	ECB4850R15S1P	ECB48102R15S1P	ECB48104R15S1P	ECB51.254R16S2P
Rated capacity/Ah	50	102	104	54
Rated voltage/V	48	48	48	51.2
Operating voltage range/V	39~54.75	39~54.75	39~54.75	186~240VDC/ 7.5kW
Standard charge current/A	25	51	52	27
Max. charge current/A	50	102	104	54
Standard discharge current/A	50	102	104	54
Max. discharge current/A	50	102	104	216
String number of standard box/S	15	15	15	16
Number of standard box/pc	1	1	1	1
Standard box dimension (W×D×H)(mm)	440×400×130	440×602×131	440×545×133	440×173×500
Weight (without cabinet)/kg	41	45	48	36
Operating temperature/°C (discharge)	-20~60	-20~60	-20~60	-20~60
Cycle life/times	≥2000 times, standard charge/discharge &100%DOD	≥3000 times, standard charge/discharge &100%DOD	≥3000 times, standard charge/discharge &100%DOD	≥3000 times, standard charge/discharge &100%DOD
Communication	RS485	RS485	RS485	RS485
IP rating	IP20	IP20	IP20	IP20
Battery type	LFP	LFP	LFP	LFP

Backup High-voltage Lithium-ion Battery

EUB series is a lithium power backup system designed for EAST high voltage UPS, this series of products with its integration, lightweight, intelligent centralized monitoring, battery maintenance and management, unattended, energy saving and environmental protection, excellent electrical performance, hardware and software protection, can be adapted to different environments, and can provide safe and reliable uninterruptible backup power supply support for a variety of loads.

EUB series batteries are mainly matched with EAST high-voltage lithium products of UPS and modular power supply, the voltage level are 192V, 204V, 358V, 512V, 538V, 614V, 628V, capacity level are 54Ah, 314Ah, etc. Designing different capacities of the battery system can meet the requirements of most UPS's different power backup time.



EUB Battery Box

Rated voltage/V	89.6	51.2
Battery serial/parallel connection mode	2P28S	1P16S
Operating voltage range/V	72.8~102.2	41.6~58.4
Rated capacity/Ah	54	314
Standard charge current/A	27	157
Max. charge current/A	54	157
Standard discharge current/A	54	300
Max. discharge current/A	216	300
Weight/kg	55	114
Dimension(W×D×H)(mm)	446×645×171	440×770×222
Operating temperature/°C (discharge)	-20~60	-20~60
Communication	CAN	CAN
IP rating	IP20	IP20
Battery type	LFP	LFP

EUB High-voltage Box

Voltage range	0~800VDC(neutral line compatible)
Current(MAX)/A	250A/300A(optional)
Weight/kg	35
Dimension(W×D×H)(mm)	440×545×222
Operating temperature/°C(discharge)	-20~60
Auxiliary power supply, input voltage range/VAC	85~264/100~240
Auxiliary power supply, power/W	100
Storage humidity/%RH	≤95
Storage temperature/°C	-40~60
Altitude/m	≤2000
IP rating	IP20
Communication	RS485/CAN



192V, 204.8V High-voltage UPS Lithium-ion Battery Series

Model	EUB19250R60S1PX-3	EUB204314R64S1P
Rated capacity/Ah	50	314
Rated voltage/V	192	204.8
Operating voltage range/V	156~219	166.4~233.6
Standard charge current/A	25	157
Max. charge current/A	50	157
Standard discharge current/A	50	300
Max. discharge current/A	90	300
String number of standard box/S	30	16
Number of standard box/pc	2	4
Standard box dimension (W×D×H)(mm)	440×730×172	440×770×222
High-voltage box dimension (W×D×H)(mm)	/	440×545×222
Weight(without cabinet)/kg	90	475
Operating temperature/°C (discharge)	-20~60	-20~60
Cycle life/times	≥2000 times, standard charge/discharge&100%DOD	≥6000 times, standard charge/discharge&100%DOD
Communication	RS485/CAN	RS485/CAN
IP rating	IP20	IP20
Battery type	LFP	LFP

358.4V High-voltage UPS Lithium-ion Battery Series

Model	EUB35854R112S2P	EUB358314R112S1P
Rated capacity/Ah	54	314
Rated voltage/V	358.4	
Operating voltage range/V	291.2~408.8	
Standard charge current/A	27	157
Max. charge current/A	54	157
Standard discharge current/A	54	300
Max. discharge current/A	216	300
String number of standard box/S	28	16
Number of standard box/pc	4	7
Standard box dimension (W×D×H)(mm)	446×645×171	440×770×222
High-voltage box dimension (W×D×H)(mm)	440×545×222	
Weight(without cabinet)/kg	260	805
Operating temperature/°C (discharge)	-20~60	
Cycle life/times	≥3000 times, standard charge/discharge&100%DOD	≥6000 times, standard charge/discharge&100%DOD
Communication	RS485/CAN	
IP rating	IP20	
Battery type	LFP	

512(±256)V, 512V, 537.6V(±256)V, 537.6V High-voltage UPS Lithium Battery Series



Model	EUB512314R160S1P	EUB53854R168S2P
Rated capacity/Ah	314	54
Rated voltage/V	512(±256) with neutral wire/ 512 without neutral wire	537.6(±256) with neutral wire/ 537.6 without neutral wire
Operating voltage range/V	416~584	436.8~613.2
Standard charge current/A	157	27
Max. charge current/A	300	54
Standard discharge current/A	300	54
Max. discharge current/A	300	216
String number of standard box/S	16	28
Number of standard box/pc	10	6
Standard box dimension (W×D×H)(mm)	440×770×222	446×645×171
High-voltage box dimension (W×D×H)(mm)	440×545×222	
Weight(without cabinet)/kg	1135	370
Operating temperature/°C (discharge)	-20~60	
Cycle life/times	≥6000 times, standard charge/discharge&100%DOD	≥3000 times, standard charge/discharge&100%DOD
Communication	RS485/CAN	
IP rating	IP20	
Battery type	LFP	

Backup Semi-Solid State Lithium-ion Battery System

The solid-state lithium-ion battery system has broad application prospects in the backup power supply scenario, and the system uses semi-solid state battery cell. Due to its high energy density, excellent safety and fast charging, it has become an ideal choice for data centers, computer rooms, hospitals and other places. With the continuous progress of technology and the reduction of costs, the application of solid-state lithium-ion batteries in backup power supply scenarios will be more extensive, providing important support for achieving the goals of green energy and smart grid.



This solid-state series is a lithium-ion battery system designed for EAST high-voltage backup UPS. With its functions of integration, lightweight, intelligent centralized monitoring, battery maintenance and management, unattended, energy-saving and environmentally friendly, excellent electrical performance, and perfect hardware and software protection, it can adapt to different environments and can provide safe and reliable uninterrupted backup power supply for various loads. The EUB series batteries are mainly matched with the high-voltage lithium-ion battery products of EAST UPS and module power supply. The battery system voltage levels are 204V, 358V, 512V, and 614V; the capacity level is 280Ah, which can meet the requirements of most UPS for different standby times.

614.4V, 627.2V High-voltage UPS Lithium Battery Series



Model	EUB614314R192S1P	EUB62754R196S2P
Rated capacity/Ah	314	54
Rated voltage/V	614.4	627.2
Operating voltage range/V	499.2~700.8	509.6~715.4
Standard charge current/A	157	27
Max. charge current/A	157	54
Standard discharge current/A	300	54
Max. discharge current/A	300	216
String number of standard box/S	16	28
Number of standard box/pc	12	7
Standard box dimension (W×D×H)(mm)	440×770×222	446×645×171
High-voltage box dimension (W×D×H)(mm)	400×545×222	440×545×222
Weight(without cabinet)/kg	1355	425
Operating temperature/°C (discharge)	-20~60	
Cycle life/times	≥6000 times, standard charge/discharge&100%DOD	≥3000 times, standard charge/discharge&100%DOD
Communication	RS485/CAN	
IP rating	IP20	
Battery type	LFP	

EUB Battery Box

Rated voltage/V	51.2	
Battery serial/parallel connection mode	1P16S	
Operating voltage range/V	41.6~58.4	
Rated capacity/Ah	280	
Standard charge current/A	140	
Max. charge current/A	140	
Standard discharge current/A	200	280
Max. discharge current/A	200	280
Weight/kg	110	
Dimension(W×D×H)(mm)	440×770×222	
Operating temperature /°C (discharge)	-20~60	
Communication	CAN	
IP rating	IP20	
Battery type	LFP	

EUB High-voltage Box

Voltage range	0-800VDC(neutral line compatible)
Current(MAX)/A	250A/300A(optional)
Weight/kg	25/35
Dimension(W×D×H)(mm)	440×545×222
Operating temperature/°C (discharge)	-20~60
Auxiliary power supply, input voltage range/VAC	85~264
Auxiliary power supply, power/W	100
Storage humidity/%RH	≤95
Storage temperature/°C	-40~60
Altitude/m	≤2000
IP rating	IP20
Communication	RS485/CAN



Backup High Voltage Sodium-ion Battery

Backup sodium-ion battery is a backup sodium-ion battery system (superior low temperature performance) designed for EAST high-voltage UPS. This series of products is known for its integrated, lightweight, intelligent centralized monitoring, battery maintenance and management, unattended, energy-saving and environmental protection, excellent electrical performance, perfect hardware and software protection, etc., can adapt to different environments, and can provide safe and reliable uninterrupted backup power supply for various loads.

The EUB series batteries are mainly matched with the high-voltage sodium-ion battery products of EAST UPS and module power supply. The battery system voltage level is 501.6V-Na and the capacity level is 49Ah-Na, which can meet the requirements of most UPS for different backup times.



The application of sodium-ion battery systems in the UPS field is a new growth point for new technologies. The products are safe and adaptable to a variety of environments. It can discharge in full-scenario at a low temperature of -40°C~60°C. Promote UPS sodium-ion battery products based on the advantages of sodium-ion battery, it can be widely used in data centers, factories, public institutions such as schools, hospitals, etc.

Main Parameters of the System

Model(Solid-state)	EUB204280R64S	EUB358280R112S	EUB512280R160S	EUB614280R192S
Rated capacity/Ah	280			
Rated voltage/V	204.8	358.4	512(±256)	614.4
Operating voltage range/V	166.4~233.6	291.2~408.8	416~584	499.2~700.8
Standard charge current/A	140			
Max. charge current/A	200	140		
Standard discharge current/A	200	140		
Max. discharge current/A	200	280		
String number of standard box/S	16			
Number of standard box/pc	4	7	10	12
Standard box dimension (W×D×H)(mm)	440×770×222			
High-voltage box dimension (W×D×H)(mm)	440×545×222			
Weight(without cabinet)/kg	475	805	1135	1350
Operating temperature/°C(discharge)	-20~60			
Cycle life/times	≥6000 times, standard charge/discharge&100%DOD			
Communication	RS485/CAN			
IP rating	IP20			
Battery type	LFP			

EUB Series Battery

Rated voltage/V	62.7
Battery serial/parallel connection mode	1P22S
Operating voltage range/V	44~79.2
Rated capacity/Ah	49
Standard charge current/A	49
Max. charge current/A	49
Standard discharge current/A	49
Max. discharge current/A	294
Weight/kg	55
Dimension(W×D×H)(mm)	441×750×129
Operating temperature /°C (discharge)	-40~60
Communication	CAN
IP rating	IP20
Battery type	Sodium-ion battery



Home Energy Storage Battery

Home energy storage systems offer high-quality new energy products that are simple to install, easy to operate, safe to use, and environmentally friendly, suitable for powering household appliances. They power household appliances, storing grid electricity in batteries during off-peak periods and then transferring it to the grid during peak periods. Their modular design allows multiple batteries to be connected in parallel to expand capacity, ensuring greater storage capacity for both household use and grid delivery.

Product types include rack-mounted, stacked, vertical, and wall-mounted series, compatible with mainstream inverters on the market. Voltage levels include 24V, 48V, and 750V. Basic battery system capacities include 100Ah, 200Ah, and 314Ah. Multiple parallel groups are supported.



Main Parameters of the System

Model	ENB50149R176S1P
Rated capacity/Ah	49
Rated voltage/V	501.6
Operating voltage range/V	352~633.6
Standard charge current/A	25
Max. charge current/A	49
Standard discharge current/A	49
Max. discharge current/A	294
String number of standard box/S	22
Number of standard box/pc	8
Standard box dimension (W×D×H)(mm)	441×750×129
High-voltage box dimension (W×D×H)(mm)	440×545×222
Weight(without cabinet)/kg	480
Operating temperature/°C(discharge)	-40~60
Cycle life/times	≥5000 times, standard charge/discharge&100%DOD
Communication	RS485/CAN
IP rating	IP20
Battery type	Sodium-ion battery

Wall-mounted Lithium-ion Battery System

Model	EHB24200Y8S2P	EHB48100Y16S1P
Cathode material	LiFePO4	
Rated voltage/V	25.6	51.2
Rated capacity/Ah	204	102
Rated energy/kWh	5.22	5.22
Standard parallel unit/P	1	1
Output power/kW	3	5
Charge voltage/V	29.2	58.4
Operating voltage range/V	20.8~29.2	41.6~58.4
Max. charge current/A	100	50
Max. discharge current/A	100	100
Operating temperature/°C	Charge temperature/°C	0~55
	Discharge temperature/°C	-20~55
Weight/kg	45	
Dimension(W×D×H)(mm)	440×170×690	
IP rating	IP54	
Certification	UN38.3, CE-EMC	
Cooling method	Natural cooling	
Communication	CAN/RS485	
Cycle life	≥6000 Cycles@0.5C/90%DOD@70%EOL, 25±2°C	
Display configuration	ON/OFF button, LCD touchscreen	

Home Energy Storage Battery



48V100AH Rack-mounted Lithium-ion Battery System

Model	EHB48100R16S1P	EHB48100R16S2P	EHB48100R16S3P	EHB48100R16S4P
Cathode material	LiFePO4			
Rated voltage/V	51.2			
Rated capacity/Ah	102	204	306	408
Rated energy/kWh	5.22	10.44	15.67	20.89
Standard parallel unit/P	1	2	3	4
Output power/kW	5	10	10	10
Charge voltage/V	58.4			
Operating voltage range/V	41.6~58.4			
Max. charge current/A	50	100	150	200
Max. discharge current/A	100	200	200	200
Operating temperature/°C	Charge temperature/°C			
	Discharge temperature/°C			
Weight/kg	46	92	138	184
Dimension(W×D×H)(mm)	483×450×153	483×450×306	483×450×459	483×450×612
IP rating	IP21			
Certification	UN38.3, CE-EMC			
Cooling method	Natural cooling			
Communication	CAN/RS485			
Cycle life	≥6000 Cycles@0.5C/90%DOD@70%EOL, 25±2°C			
Display configuration	ON/OFF button, SOC indicator light(button LCD optional)			

48V100AH Stacked Lithium-ion Battery System

Model	EHB48100D16S1P	EHB48100D16S2P	EHB48100D16S3P	EHB48100D16S4P			
Cathode material	LiFePO4						
Rated voltage/V	51.2						
Rated capacity/Ah	102	204	306	408			
Rated energy/kWh	5.22	10.44	15.67	20.89			
Standard parallel unit/P	1	2	3	4			
Output power/kW	5	5	10	5	10	5	10
Charge voltage/V	58.4						
Operating voltage range/V	41.6~58.4						
Max. charge current/A	50	100	120	150	120	200	
Max. discharge current/A	100	120	200	120	200	120	200
Operating temperature/°C	Charge temperature/°C						
	Discharge temperature/°C						
Weight/kg	11+50×1	11+50×2	11+50×3	11+50×4			
Dimension(W×D×H)(mm)	580×390×380	580×390×560	580×390×740	580×390×920			
IP rating	IP54						
Certification	UN38.3, CE-EMC						
Cooling method	Natural cooling						
Communication	CAN/RS485						
Cycle life	≥6000 Cycles@0.5C/90%DOD@70%EOL, 25±2°C						
Display configuration	Quick-connect terminal, ON/OFF button, SOC indicator light						

Home Energy Storage Battery



48V314AH Rack-mounted Lithium-ion Battery System

Model	EHB48314R10S1P	EHB48314R10S2P	EHB48314R10S3P	EHB48314R10S4P
Cathode material	LiFePO4			
Rated voltage/V	51.2			
Rated capacity/Ah	314	628	942	1256
Rated energy/kWh	10.04	20.09	30.14	40.19
Standard parallel unit/P	1	2	3	4
Output power/kW	5	10	10	10
Charge voltage/V	58.4			
Operating voltage range/V	51.2			
Max. charge current/A	100	200	200	200
Max. discharge current/A	100	200	200	200
Operating temperature/°C	Charge temperature/°C			
	Discharge temperature/°C			
Weight/kg	87	165	243	321
Dimension(W×D×H)(mm)	440×650×480	440×650×758	440×650×1033	440×650×1312
IP rating	IP21			
Certification	UN38.3, CE-EMC			
Cooling method	Fan cooling			
Communication	CAN/RS485			
Cycle life	≥8000 Cycles@0.5C/90%DOD@80%EOL, 25±2°C			
Display configuration	ON/OFF button, SOC indicator light			

48V314AH Stacked Lithium-ion Battery System

Model	EHB48314D10S1P	EHB48314D10S2P	EHB48314D10S3P	EHB48314D10S4P
Cathode material	LiFePO4			
Rated voltage/V	51.2			
Rated capacity/Ah	314	628	942	1256
Rated energy/kWh	10.04	20.09	30.14	40.19
Standard parallel unit/P	1	2	3	4
Output power/kW	5	10	10	10
Charge voltage/V	58.4			
Operating voltage range/V	51.2			
Max. charge current/A	100	200	200	200
Max. discharge current/A	100	200	200	200
Operating temperature/°C	Charge temperature/°C			
	Discharge temperature/°C			
Weight/kg	15+81×1	15+81×2	15+81×3	15+81×4
Dimension(W×D×H)(mm)	700×405×520	700×405×750	700×405×980	700×405×1210
IP rating	IP65			
Certification	UN38.3, CE-EMC			
Cooling method	Fan cooling			
Communication	CAN/RS485			
Cycle life	≥8000 Cycles@0.5C/90%DOD@80%EOL, 25±2°C			
Display configuration	Quick-connect terminal, ON/OFF button, SOC indicator light			

Home Energy Storage Battery



5.22kWh

10.44kWh

16.07kWh

750V314AH Stacked Lithium-ion Battery System

Model	EHB48314R10S1P	EHB48314R10S2P	EHB48314R10S3P	EHB48314R10S4P
Cathode material	LiFePO4			
Rated voltage/V	750			
Rated capacity/Ah	314	628	942	1256
Rated energy/kWh	10.04	20.09	30.14	40.19
Standard parallel unit/P	1	2	3	4
Output power/kW	5	10	15	20
Charge voltage/V	1000			
Operating voltage range/V	600~1000			
Max. charge current/A	8.3	16.6	24.9	33.2
Max. discharge current/A	8.3	16.6	24.9	33.2
Operating temperature/°C	Charge temperature/°C			
	0~55			
Operating temperature/°C	Discharge temperature/°C			
	-20~55			
Weight/kg	15+83×1	15+83×2	15+83×3	15+83×4
Dimension(W×D×H)(mm)	700×405×520	700×405×750	700×405×980	700×405×1210
IP rating	IP65			
Certification	UN38.3, CE-EMC			
Cooling method	Fan cooling			
Communication	CAN/RS485			
Cycle life	≥8000 Cycles@0.5C/90%DOD@80%EOL, 25±2°C			
Display configuration	Quick-connect terminal, ON/OFF button, SOC indicator light			

Vertical Lithium-ion Battery System

Model	EHB24200Y8S2P	EHB48100Y16S1P	EHB48200Y16S2P	EHB48314Y16S1P
Cathode material	LiFePO4			
Rated voltage/V	25.6	51.2	51.2	51.2
Rated capacity/Ah	204	102	204	314
Rated energy/kWh	5.22	5.22	10.44	16.07
Standard parallel unit/P	1	1	1	1
Output power/kW	3	5	5 10	5 8
Charge voltage/V	29.2	58.4	58.4	58.4
Operating voltage range/V	20.8~29.2	41.6~58.4	41.6~58.4	41.6~58.4
Max. charge current/A	100	100	100	100 160
Max. discharge current/A	100	100	100 200	100 200
Operating temperature/°C	Charge temperature/°C			
	0~55			
Operating temperature/°C	Discharge temperature/°C			
	-20~55			
Weight/kg	53	53	90	122
Dimension(W×D×H)(mm)	440×170×690(750 with wheels)		820×170×660 (710 with wheels)	460×230×850 (900 with wheels)
IP rating	IP21			
Certification	UN38.3, CE-EMC			
Cooling method	Natural cooling			
Communication	CAN/RS485			
Cycle life	≥6000 Cycles@0.5C/90%DOD@80%EOL, 25±2°C			≥8000 Cycles @0.5C/90%DOD@ 80%EOL, 25±2°C
Display configuration	ON/OFF button, LCD touchscreen			