

Lithium-ion Battery System Brochure

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

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



EAST GROUP CO., LTD.

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



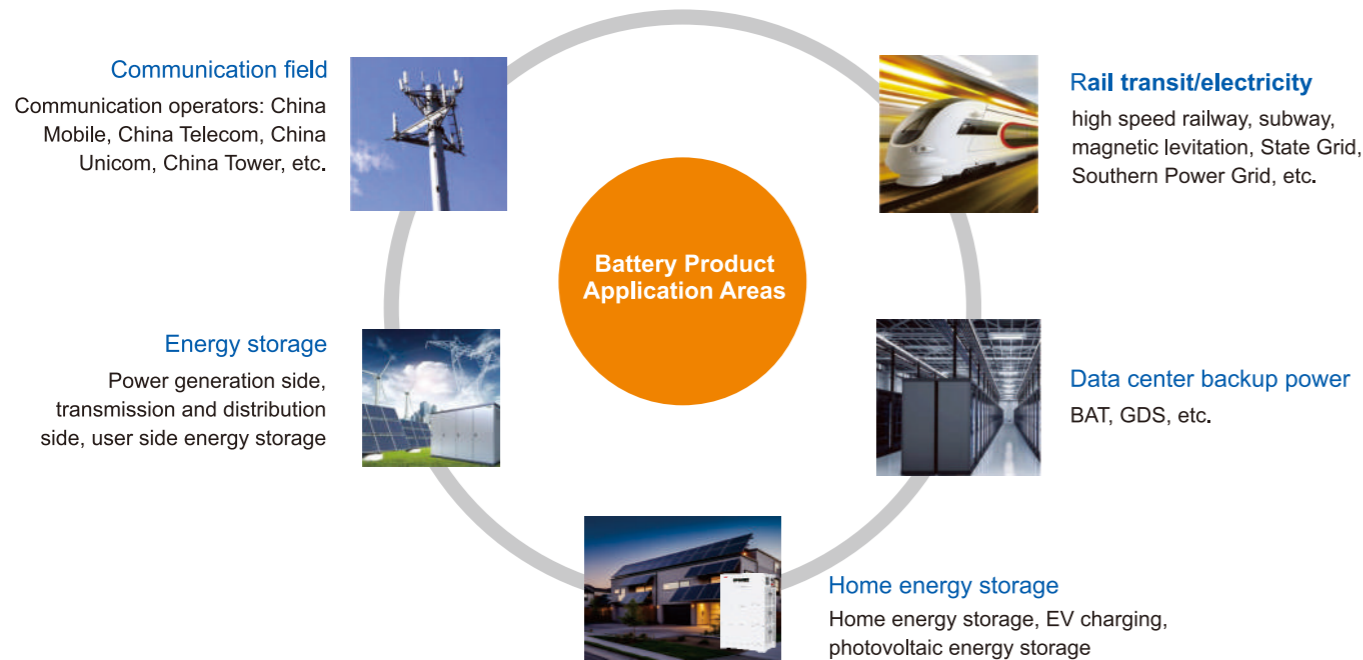
Intelligent automatic production line



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

The low-voltage lithium battery system includes batteries for communication base stations and standard UPS units. It is a high-tech product developed by EAST with the full support of its core expert team in structural design, BMS software and hardware development, simulation testing, 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. Includes both built-in and external battery configurations.

ECB48102R15S1P and ECB4850R15S1P lithium-ion battery, 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

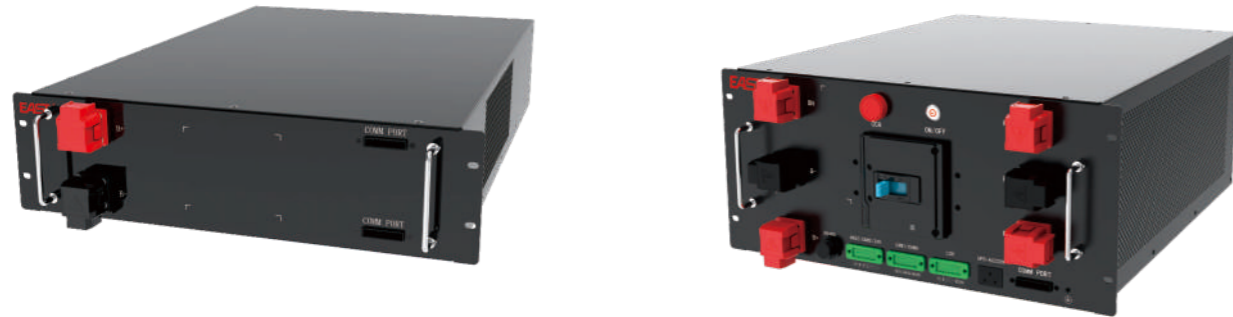


Model	ECB4850R15S1P	ECB48102R15S1P	EFP2409Q1	EFP4809Q1	EFP7209Q1
Energy/kwh	2.4	4.9	0.22	0.44	0.67
Rated capacity/Ah	50	102	8.7	8.7	8.7
Rated voltage/V	48	48	25.6	51.2	76.8
Operating voltage range/V	39~54.75	39~54.75	20~29.2	40~58.4	60~86.4
Standard charge current/A	25	51	1.7	1.7	1.7
Max. discharge current/A	50	102	50	50	50
Number of standard box/pc	1	1	/	/	/
Dimension(L×W×H)(mm)	440×400×130	440×602×131	151×65×200	282×65×196	302×65×205
Weight/kg	41	45	3.4	6.5	8.5
Operating temperature/°C (discharge)	-20~60	-20~60	-20~60	-20~60	-20~60
Cycle life/times	≥3000	≥3000	≥1500	≥1500	≥1500
Communication	RS485	RS485	/	/	/
IP rating	IP20	IP20	/	/	/
Battery type	LFP	LFP	LFP	LFP	LFP
Backup time/min	60	60	10	10	10
Max. Power/kw	2.4	5.0	1.2	2.4	3.6
Remark	/	/	Built-in battery	Built-in battery	Built-in battery

Backup High-voltage Lithium-ion Battery System

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 UPS and modular power supply high-voltage lithium battery products, the voltage levels are 192V and 384V, and use small-rate cells with a capacity of 50Ah, which can meet the requirements of different backup durations for low-power UPS.



EUB Series Battery Module

Rated voltage/V	96
Operating voltage range/V	75~109.5
Energy/kwh	4.8
Rated capacity/Ah	50
Standard charge current/A	25
Max. charge current/A	50
Standard discharge current/A	50
Max. discharge current/A	100
Weight/kg	45
Dimension(W×D×H)(mm)	465×173×750
Operating temperature /°C (discharge)	-20~60
Communication	RS485/CAN
IP rating	IP20
Battery type	LFP

EUB High-voltage Box

Voltage range	0~800
Current(MAX)/A	250
Weight/kg	21.8
Dimension(W×D×H)(mm)	441×217×545
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

Lithium-ion Battery 50Ah 2C, 27Ah High-voltage UPS Lithium-ion System

Model	EUB19250R60S1PX-3	EUB38450R120S1P2-Z	EUB38450R120S1P2	EUB19227R60S1P-Y
Rated capacity/Ah	50			27
Energy/kwh	9.6	19.2	19.2	4.8
Rated voltage/V	192	384	384	192
Operating voltage range/V	156~219	312~438	312~438	156~219
Standard charge current/A	25			13.5
Max. charge current/A	50			27
Standard discharge current/A	50			81
Number of standard box/pc	2	4	4	1
Weight(with cabinet)/kg	90	202	190	55
Battery cabinet dimension (W×D×H)(mm)	600×900×1400			442×700×155
Operating temperature/°C(discharge)	-20~60			
Cycle life/times	≥3000(0.5CC/1CD)			
Communication	RS485/CAN			
IP rating	IP20			
Battery type	LFP			
Backup time/min	30			
Maximum power/kw	20	40	40	10
Compatible UPS model	EA906-EA9020	EA9910-EA9940	EA89 Series	EA906-EA9010

Backup High-voltage Lithium-ion Battery System

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 UPS and modular power supply high-voltage lithium battery products, the voltage levels are 384V, 460V, 537V, 614V, and use high-rate cells with a capacity of 50Ah, which can meet the short-term backup power requirements of high power UPS.



EUB Series Battery Module

Rated voltage/V	76.8
Operating voltage range/V	60~87.6
Energy/kWh	3.84
Rated capacity/Ah	50
Standard charge current/A	25
Max. charge current/A	100
Standard discharge current/A	50
Max. discharge current/A	300
Weight/kg	45
Dimension(W×D×H)(mm)	441×171×600
Operating temperature /°C(discharge)	-20~60
Communication	RS485/CAN
IP rating	IP20
Battery type	LFP

EUB High-voltage Box

Voltage range	0~800
Current(MAX)/A	400
Weight/kg	37.10
Dimension(W×D×H)(mm)	441×217×646
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



Lithium-ion Battery 50Ah 6C High-voltage UPS Lithium-ion System

Model	EUB38450R120 S1P	EUB46050R144 S1P	EUB46050R144 S1P-Z	EUB53750R168 S1P	EUB53750R168 S1P-Z	EUB61450R192 S1P
Rated capacity/Ah	50					
Energy/kWh	19.2	23.04	23.04	26.88	26.88	30.72
Rated voltage/V	384	460.8	460.8	537.6	537.6	614.4
Operating voltage range/V	312~438	374.4~525.6	374.4~525.7	436.8~613.2	436.8~613.2	499.2~700.8
Standard charge current/A	25					
Max. charge current/A	100					
Standard discharge current/A	50					
Max. discharge current/A	300					
Number of standard box/pc	5	6	6	7	7	8
Weight(with cabinet)/kg	422	455	470	500	515	545
Battery cabinet dimension (W×D×H)(mm)	600×900×2000					
Operating temperature/°C(discharge)	-20~60					
Cycle life/times	≥3000(0.5CC/1CD)					
Communication	RS485/CAN					
IP rating	IP20					
Battery type	LFP					
Backup time/min	10					
Maximum power/kw	115.2	138	138	161.1	161.1	184.2
Compatible UPS model	EA89 Series	EA66 Series	EA66/EA99 Series	EA66-100K, EA99pro	EA66/EA99 Series	EA89 Series

Backup High-voltage Lithium-ion Battery System

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 UPS and modular power supply high-voltage lithium battery products. The voltage levels are 204V, 358V, 409V, 512V, 614V. The capacity of the battery systems is 102Ah, meeting the varying backup power requirements of UPS systems of different power ratings.



EUB Series Battery Module

Rated voltage/V	51.2
Operating voltage range/V	40~58.4
Energy/kWh	5.22
Rated capacity/Ah	102
Standard charge current/A	50
Max. charge current/A	100
Standard discharge current/A	100
Max. discharge current/A	200
Weight/kg	48
Dimension(W×D×H)(mm)	441×129×650
Operating temperature /°C (discharge)	-20~60
Communication	RS485/CAN
IP rating	IP20
Battery type	LFP

EUB High-voltage Box

Voltage range	0~800
Current(MAX)/A	250
Weight/kg	21.8
Dimension(W×D×H)(mm)	441×217×545
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

Lithium-ion Battery 102Ah High-voltage UPS Lithium-ion Battery System

Model	EUB204102 R64S1P	EUB358102 R112S1P	EUB409102 R128S1P	EUB409102 R128S1P-Z	EUB512102 R160S1P	EUB512102 R160S1P-Z	EUB614102 R192S1P
Rated capacity/Ah	102						
Energy/kWh	20.89	36.56	41.78	41.78	52.22	52.22	62.67
Rated voltage/V	204.8	358.4	409.6	409.6	512	512	614.4
Operating voltage range/V	166.4~233.6	291.2~408.8	832.8~467.2	832.8~467.2	416~584	416~584	499.2~700.8
Standard charge current/A	50						
Max. charge current/A	100						
Standard discharge current/A	100						
Max. discharge current/A	200						
Number of standard box/pc	4	7	8	8	10	10	12
Weight(with cabinet)/kg	375	520	570	585	665	680	765
Battery cabinet dimension (W×D×H)(mm)	600×900×2000						600×900×2200
Operating temperature/°C(discharge)	-20~60						
Cycle life/times	≥3000(0.5CC/1CD)						
Communication	RS485/CAN						
IP rating	IP20						
Battery type	LFP						
Backup time/min	10						
Maximum power/kw	40.96	138	81.92	81.92	102.4	102.4	184.2
Compatible UPS model	EA906-EA9020 Series	EA89 Series	EA89 Series	EA66/EA99 Series	EA66-100K, EA99pro	EA66/EA99 Series	EA89 Series

Backup High-voltage Lithium-ion Battery System

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 UPS and modular power supply high-voltage lithium battery products. The voltage levels are 204V, 358V, 409V, 512V, 614V. The system utilizes low-rate cells with a capacity of 314Ah, meeting the extended backup duration requirements for high-power UPS.



EUB Series Battery Module

Rated voltage/V	51.2
Operating voltage range/V	40~58.4
Energy/kWh	16.08
Rated capacity/Ah	314
Standard charge current/A	157
Max. charge current/A	157
Standard discharge current/A	314
Max. discharge current/A	314
Weight/kg	114
Dimension(W×D×H)(mm)	440×770×222
Operating temperature /°C (discharge)	-20~60
Communication	RS485/CAN
IP rating	IP20
Battery type	LFP

EUB High-voltage Box

Voltage range	0~800
Current(MAX)/A	400
Weight/kg	37.1
Dimension(W×D×H)(mm)	441×217×646
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

Lithium-ion Battery 314Ah High-voltage UPS Lithium-ion Battery System

Model	EUB204314R64 S1P	EUB358314R11 2S1P	EUB409314R12 8S1P-Z	EUB512314R16 0S1P	EUB512314R16 0S1P-Z	EUB614314R19 2S1P
Rated capacity/Ah	314					
Energy/kWh	64.31	112.54	128.6	160.77	160.77	192.92
Rated voltage/V	204.8	358.4	409.6	512	512	614.4
Operating voltage range/V	166.4~233.6	291~408.8	332.8~467.2	416~584	416~584	499.2~700.8
Standard charge current/A	157					
Max. charge current/A	157					
Standard discharge current/A	157					
Max. discharge current/A	314					
Number of standard box/pc	4	7	8	10	10	12
Weight(with cabinet)/kg	640	985	937	1150	1165	1695
Battery cabinet dimension (W×D×H)(mm)	600×850×2200			1200×1000×1866		
Operating temperature/°C(discharge)	-20~60					
Cycle life/times	≥8000(0.5CC/0.5CD)					
Communication	RS485/CAN					
IP rating	IP20					
Battery type	LFP					
Backup time/min	60					
Maximum power/kw	64.31	112.54	128.60	160.77	160.77	192.92
Compatible UPS model	EA906-EA9020 Series	EA89 Series	EA99 Series	EA66-100K, EA99pro	EA66/EA99 Series	EA89 Series

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.



EUB Battery Box Module

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	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 wire 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

Model(Solid-state)	EUB358280R112S	EUB512280R160S	EUB614280R192S
Rated capacity/Ah	280		
Rated voltage/V	358.4	512(±256)	614.4
Operating voltage range/V	291.2~408.8	416~584	499.2~700.8
Standard charge current/A	140		
Max. charge current/A	140		
Standard discharge current/A	140		
Max. discharge current/A	280		
String number of standard box/S	16		
Number of standard box/pc	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	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		

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.



ENP4850R16S1P

EUB Series Battery Module

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

EUB High-voltage Box

Voltage range	0~800
Current(MAX)/A	300
Weight/Kg	37.1
Dimension(W×D×H)(mm)	441×217×646
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

Model	ENB50149R176S1P-Z	ENB50149R176S1P	ENP4850R16S1P
Rated capacity/Ah	49	49	49
Energy/kWh	24.55	24.55	2.33
Rated voltage/V	501	501	192~240
Operating voltage range/V	352~633.6	352~633.7	192~240
Standard charge current/A	25	25	5
Max. charge current/A	49	49	10
Standard discharge current/A	49	49	20
Max. discharge current/A	294	294	40
Number of standard box/pc	8	8	/
Weight(with cabinet)/kg	640	655	36
Battery cabinet dimension(W×D×H)(mm)	600×900×2000	600×900×2000	600×900×2000
Operating temperature/°C(discharge)	-20~60	-20~60	-20~60
Cycle life/times	≥5000(0.5CC/1CD)	≥5000(0.5CC/1CD)	≥5000(0.5CC/1CD)
Communication	RS485/CAN	RS485/CAN	RS485/CAN
IP rating	IP20	IP20	IP20
Battery type	LFP	LFP	LFP
Backup time/min	10	10	18
Maximum power/kw	147.29	148.29	7.5
Compatible UPS model	EA66/EA99	EA66~100K	EA908~EA9020

Energy Storage Air-cooled Battery System

Energy storage lithium-ion batteries are a crucial component of the energy transition, serving as an indispensable “reservoir” and “stabilizer” for building new power systems. With the established dominance of lithium iron phosphate technology and the maturity of the entire industry chain, energy storage lithium-ion batteries are rapidly developing towards greater safety, longer lifespan, and higher economic efficiency, with extremely broad application prospects.

To address the differentiated needs of various energy storage scales and deployment scenarios, East has launched an air-cooled energy storage battery system. This system is a cost-effective choice for small and medium-sized energy storage scenarios and a highly efficient and reliable solution for large-scale, high-density energy storage scenarios, featuring ultimate safety, intelligent BMS, and a long-life design.



Energy Storage Air-cooled Lithium-ion Battery System

Model	EEB768314R240S1P	EEB768314R240S1P	EBB409314R128S1P
Energy/kWh	241	241	192
Rated capacity/Ah	314	314	314
Rated voltage/V	768	768	409
Operating voltage range/V	624~864	572~792	333~460
Standard charge current/A	157	157	157
Max. discharge current/A	157	157	157
Number of battery box/pc	12	12	8
Weight(without cabinet)/kg	1580	1450	930
High-voltage box dimension(W×D×H)(mm)	454×230×670	454×230×670	440×222×750
Operating temperature/°C(discharge)	-20~60	-20~60	-20~60
Cycle life/times	≥3000(0.5CC/0.5CD)	≥3000(0.5CC/0.5CD)	≥3000(0.5CC/0.5CD)
Communication	RS485/CAN	RS485/CAN	RS485/CAN
IP rating	IP20	IP20	IP20
Battery type	LFP	LFP	LFP
Application scenarios	European IEC energy storage	European IEC energy storage	Mobile energy storage

Energy Storage Air-cooled Lithium-ion Battery Module

Model	EEB64314R20S1P	EEB64314R20S1P-H	EEB64314R16S1P
Name	1P20S battery module	1P20S battery module	1P16S battery module
Energy/kWh	20.096	20.096	16.076
Operating voltage range/V	52~73	52~73	41.6~58.4
Max. discharge current/A	150	150	150
Cooling mode	Air cooling	Air cooling	Air cooling
Dimension(L×H×W)(mm)	516×229×908	516×229×908	440×772×219
IP rating	IP20	IP20	IP20
Operating temperature/°C(discharge)	-20~60	-20~60	-20~60
Storage temperature range	-30~60	-30~60	-30~60
Weight/kg	130	130	110
Communication	RS485/CAN	RS485/CAN	RS485/CAN
Application scenarios	Domestic energy storage	European IEC energy storage	Mobile energy storage

Energy Storage Liquid-cooled Battery System

Liquid-cooled battery systems for energy storage significantly improve the safety, cycle life, and overall lifecycle economics of energy storage systems through their efficient and uniform heat dissipation capabilities. As the energy storage market continues to expand and safety requirements increase, liquid cooling technology has become the mainstream choice for large-scale energy storage power plants and will continue to evolve towards greater efficiency, intelligence, and integration.

To address the differentiated needs of various energy storage scales and deployment scenarios, East has launched a liquid-cooled energy storage battery system. This system is a cost-effective choice for small and medium-sized energy storage scenarios and a highly efficient and reliable solution for large-scale, high-density energy storage scenarios, featuring ultimate safety, intelligent BMS, and a long-life design.



Energy Storage Liquid-cooled Lithium-ion Battery System

Model	EEB832314R260S1P	EEB832314R260S1P-H	EEB1331314R416S1P
Energy/kWh	261	261	418
Rated capacity/Ah	314	314	314
Rated voltage/V	832	832	1331
Operating voltage range/V	676~936	676~936	1082~1492
Standard charge current/A	157	157	157
Max. discharge current/A	157	157	157
String number of standard box/S	5S1P	5S1P	8S1P
Number of battery box/pc	5	5	8
Weight(without cabinet)/kg	1580	1580	2340
High-voltage box dimension(W×D×H)(mm)	454×230×670	454×230×670	440×222×750
Operating temperature/°C(discharge)	-20~60	-20~60	-20~60
Cycle life/times	≥3000(0.5CC/0.5CD)	≥3000(0.5CC/0.5CD)	≥3000(0.5CC/0.5CD)
Communication	RS485/CAN	RS485/CAN	RS485/CAN
IP rating	IP54	IP54	IP54
Battery type	LFP	LFP	LFP
Application scenarios	Domestic energy storage	European energy storage	Domestic energy storage

Energy Storage Liquid-cooled Battery Module

Model	EEB166314R52S1P	EEB166314R52S1P-H
Name	1P52S battery module	1P52S battery module
Energy/kWh	52.249	52.249
Rated voltage/V	166	166
Operating voltage range/V	130~189.8	130~189.8
Max. discharge current/A	150	150
Cooling mode	Liquid cooling	Liquid cooling
Dimension(L×H×W)(mm)	770×238×1149	770×238×1149
IP rating	IP54	IP54
Operating temperature/°C(discharge)	-20~60	-20~60
Weight/kg	290±2	290±2
Communication	RS485/CAN	RS485/CAN
Application scenarios	Domestic energy storage	European IEC energy storage