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Youtube



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LiFePO4 Batteries For AERIAL WORK PLATFORMS

Support your equipments the ultimate power upgrade with
BSLBATT® Lithium-ion Batteries.



www.lithium-battery-factory.com

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Business Card Binding Position

CORPORATE HISTORY

2011

WISDOM INDUSTRIAL POWER CO., LIMITED

Now known as BSL NEW ENERGY (HONGKONG) CO., LIMITED.

2017

The Energy Storage Battery Division is growing rapidly, with product voltages extending to 48V/51.2V and more applications, and volume shipments of lithium batteries for the telecom sector and UPS.

2021

Established Huizhou BSL NEW ENERGY TECHNOLOGY CO., LTD.

Established Huizhou lithium battery manufacturing and production line.

Our products are exported to more than 50 countries, and our quality and service are recognized.

2024

- Establish a new automated and modern factory in Huizhou, with an estimated annual production capacity of 2GWh.
- Establish a factory in Maanshan, Anhui, with an estimated annual production capacity of 1GWh.
- Launch a full range of industrial and commercial energy storage products.
- Establish a warehouse and office in Mexico.

2012

Established HUIZHOU WISDOM POWER TECHNOLOGY CO., LTD. to further expand the business of lead-acid batteries, and the foreign trade sales exceeded 100 million RMB.

2018

Established lithium battery factory in Dongguan, China, with a production area of 6,000 square meters.

Launched the first rack-mounted and wall-mounted battery models for home energy storage, with over 7,000 units sold overseas.

The first generation of power battery modules has been developed, and the lithium power business unit is developing rapidly.

2022

2000-square-foot warehouse and office established in Dallas, Texas, USA.

Products passed UL1973 / UL2580 / IEC / Australia CEC and other international certifications.

2025

Expected sales to reach 700 million RMB.

Plan to establish a branch and office in Japan.

2014

First lithium battery factory in Anhui, China.

Lithium batteries shipped in bulk, 12V/24V for lead-acid replacement.

Forklift lithium battery - aqueous battery technology.

2020

Became the leading ESS brand in South Africa.

Became the #3 China lithium battery brand to be listed by Victron.

2023

Over 90,000 solar batteries installed in residential worldwide.

More than 10,000 power batteries are in operation worldwide.

European office and warehouse opened.

2026

Sales are expected to reach 1 billion RMB.

Global employees will increase to more than 400.

80+
Countries

Global Deliveries

UL2580

The First Company In China To Obtain Certification

20000

Motive Power Lithium Batteries Deployed Worldwide

13+

Years Lithium Experience



6.2%

Continuous R&D Investment

3 GWH+

Delivered Capacity

Top 5

China Motive Power Lithium Battery Supplier



Mobile Elevating
Work Platform

Preferred Chinese lithium battery supplier



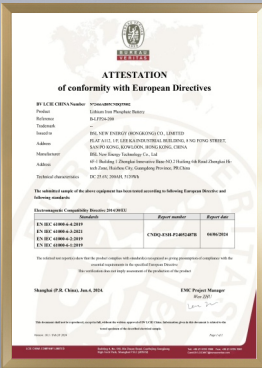
60+

Self-developed Patents



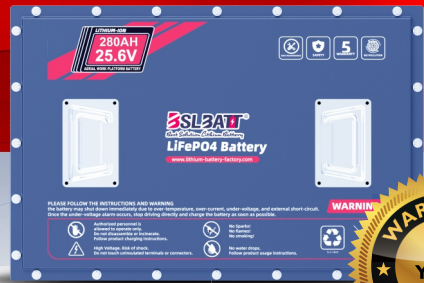
LIFEPO4 BATTERIES INDUSTRY LEADER

Power Up for Motive & Stationary Applications

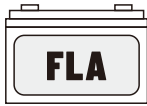


Latest Technology. Huge Growth For Your Business

Switching from lead-acid batteries to lithium-ion batteries is simple, cost-effective, and will increase your fleet productivity and keep your personnel safe.



COST FACTOR



PURCHASE COST

\$

\$ \$

\$ \$ +

\$ \$ \$



INSTALLATION COST

\$

\$

\$

\$



MAINTENANCE COST

\$ \$ \$

\$

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CHARGING COST

\$ \$ \$ \$ \$

\$ \$ \$ \$ \$

\$ \$ \$ \$ \$

\$ \$



REPLACEMENT COST

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REPLACEMENT LABOR

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OF REPLACEMENTS

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CYCLE LIFE

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TOTAL COST OVER LIFE

\$ \$ \$ \$ \$

\$ \$ \$ \$ \$ +

\$ \$ \$ \$ \$

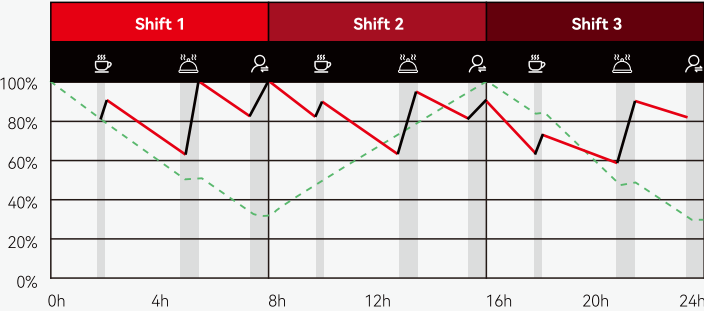
\$ \$

Charge At Any Time To Improve Efficiency

- Reduces the need for each charge.
- No need to frequently replace time-consuming batteries.
- Eliminates the risk of battery replacement accidents.
- Opportunistic charging during breaks, lunch, and shifts. Charge at any time when the device is not in use.



Typical charge and discharge of LiFePO4 batteries for 3 shifts



Coffee break



Lunch time



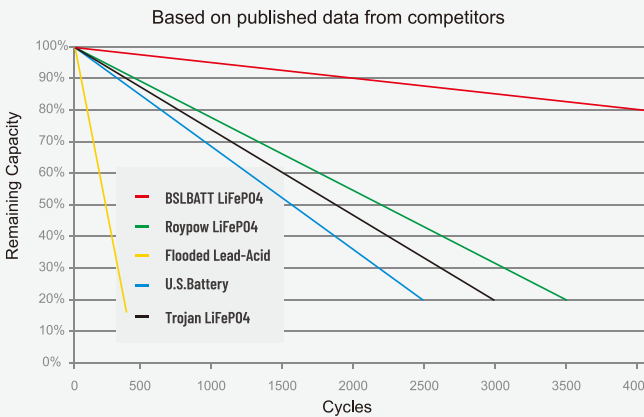
Change shift

— LiFePO4 battery charging

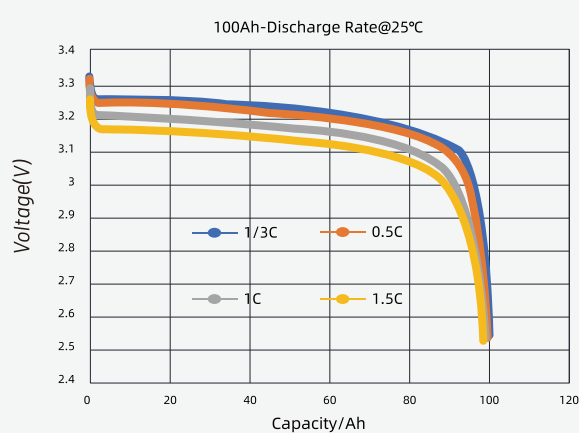
— LiFePO4 battery discharging

- - - Lead-acid battery charging and discharging

CYCLE LIFE VS. DEPTH OF DISCHARGE(DOD) AT 80%
DISCHARGE 1C/CHARGE 0.5C @ 25°C(77°F)

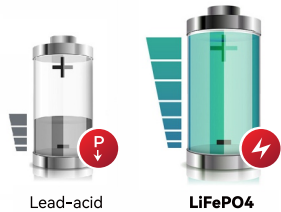


DISCHARGE CURRENT: 1/3C / 0.5C / 1C / 1.5C



Consistent Power

- LiFePO4 batteries provide consistent power without loss of efficiency even at the end of a shift.



Say goodbye to the need for dedicated charging rooms and frequent battery replacement

- Reduce the cost of frequent lead-acid battery replacement
- Eliminate storage space and extra maintenance time.
- No pollution, no need to add water, no odor, quiet and comfortable charging.



LiFePO4 Batteries for Aerial Work Platforms

Provide reliable power for most brands of aerial work platforms



Suitable for the following AWP/MEWP brands



NOTE: These BSLBATT battery conversions are for aerial work equipment originally equipped with lead-acid batteries!

Disclaimer: The above information is intended only to illustrate that BSLBATT products are applicable to the products of the above brands in specific cases. It should not be regarded as a legitimate use of third-party brands and trademarks. You should not infer that any agency, employment partnership or joint venture relationship is established or exists between BSLBATT and the above companies.

How to choose the right LiFePO4 battery for you

We manufacture 24, 48 and 72 volt systems to cover small and large platform electric scissor lifts, electric boom lifts and electric vertical lift.



Scissor Lift

24V / 48V Battery System



Boom Lift

24V / 48V Battery System



Small vertical lift

24V Battery System



Large mobile vertical lift

24V Battery System



Why Choose BSLBATT LiFePO4 Battery



5-year/10000h warranty
Extremely long warranty and technical support



Long life
4000 cycles @ 80% DOD



Intelligent BMS
Self-developed BMS provides multiple built-in protections



Stable power
No power reduction due to power loss



SOC display
Check power and fault prompts at any time



Product list [Popular capacity]

Model	Voltage	Capacity (Ah)	Nominal Energy (Wh)	Working Current	PEAK Continuous Current (10s)	L W H MM	L W H Inches	Cycle life	Casing Material
B-LFP24-105AWP	25.6	105	2.68kWh	105A	210A	400*325*222	15.7*12.6*8.4	≥4000@ 80%DOD	Iron
B-LFP24-135AWP	25.6	135	3.45kWh	135A	270A	446*333*222	17.6*13.1*8.7	≥4000@ 80%DOD	Iron
B-LFP24-150AWP	25.6	150	3.84kWh	150A	300A	440*333*222	17.3*13.1*8.7	≥4000@ 80%DOD	Iron
B-LFP24-205AWP	25.6	205	5.25kWh	205A	410A	550*333*222	21.7*13.1*8.7	≥4000@ 80%DOD	Iron
B-LFP24-230AWP	25.6	230	5.88kWh	230A	460A	580*333*260	22.8*13.1*10.2	≥4000@ 80%DOD	Iron
B-LFP24-280AWP	25.6	280	7.16kWh	280A	560A	580*360*290	22.8*14.2*11.4	≥4000@ 80%DOD	Iron
48V Customized Models									
B-LFP48-105AWP	51.2	105	5.37kWh	105A	210A	NA	NA	≥4000@ 80%DOD	Iron
B-LFP48-150AWP	51.2	150	7.68kWh	150A	300A	NA	NA	≥4000@ 80%DOD	Iron
B-LFP48-205AWP	51.2	205	10.49kWh	205A	410A	NA	NA	≥4000@ 80%DOD	Iron
B-LFP48-280AWP	51.2	280	14.3kWh	280A	560A	NA	NA	≥4000@ 80%DOD	Iron
B-LFP48-410AWP	51.2	410	20.9kWh	410A	820A	NA	NA	≥4000@ 80%DOD	Iron

Working Temperature Range

Charge 32°F~131°F (0°C ~ 55°C)	Discharge -4°F~131°F (-20°C ~ 55°C)	Protection level Ip65~Ip67
Storage (1 month) -4°F~131°F (-20°C ~ 55°C)	Storage (1 year) 32°F~95°F (0°C~35°C)	

Application vehicle

Aerial Work Platforms	Aerial Lifts	Arm Lifts
Articulating Booms	Articulating Boom Telescopic Lifts	Boom Lifts
Crane Vehicles	Maintenance Platforms	Mast Booms
Mast Lifts	Mobile Elevated Work Platforms	Mobile Vertical Lifts
Personnel Lifts	Scissor Lifts	Service Platforms
Specialty Lifts	Telescopic Booms	Telescopic Lifts
Towable Booms	Trailer Mounted Lifts	

Battery Management System (BMS)

- Built-in BMS with automotive-grade components ensures safety, top quality and high energy density, providing a fully optimized solution for demanding industrial applications.
- The BMS software ensures that the battery delivers optimal performance during operation, provides longer runtime between charges, maximizes total battery life, and enables good communication between the charger, battery and user.



BSLBATT original charger

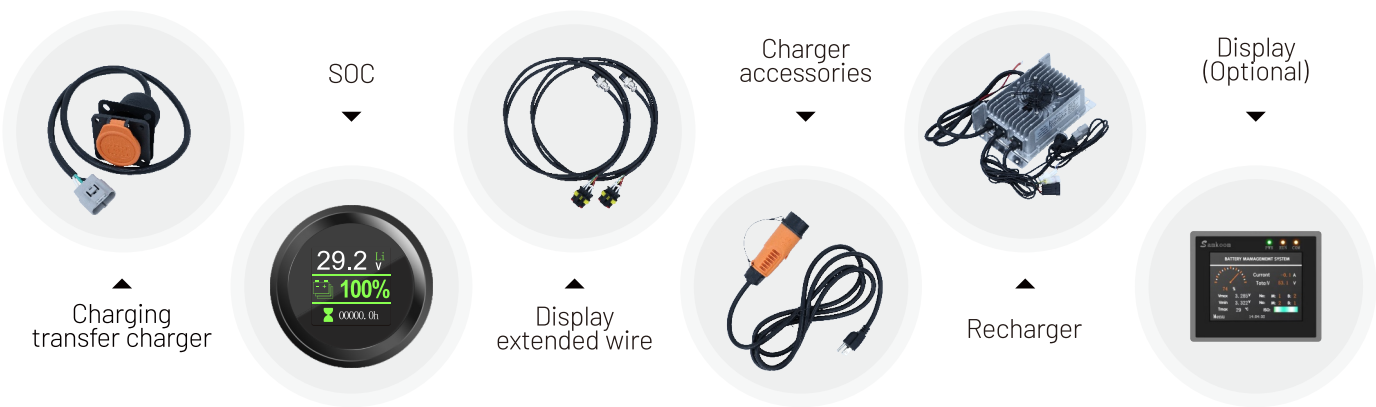
- **BSLBATT aerial work platform original charger**

BSLBATT has developed a dedicated charger specifically for each type of lithium battery to provide the best battery performance, support 2-hour fast charging, safeguard the driving experience, and maintain the best communication between our LiFePO4 battery and charger.

Matching Delta-Q charging protocol

BSLBATT works with Delta-Q, a Tier 1 OEM supplier, to drive the world's transition to electric energy and improve

- the performance of customers' electric vehicles and industrial machines to achieve a sustainable world.



Charger Model	Power	Rated Voltage	Max Current (A)	Average Current (A)	Power Supply (V)
BSL24-40A	1100W	25.6	40	38	American Standard 110-220V
BSL48-20A		51.2	20	19	
BSL24-50A	1450W	25.6	50	50	
BSL48-30A		51.2	30	26	
BSL24-20A	600W	25.6	20	20	European Standards 220V
BSL24-50A	1350W	25.6	50	47	
BSL48-25A		51.2	25	23	
BSL48-35A	2000W	51.2	35	35	
BSL72-25A		73.6	25	24	
BSL48-50A	3300W	51.2	50	50	

Compatibility

- Our chargers are compatible with voltages in various regions and countries. And are suitable for various charging modes and multiple AC plugs to choose from.

USA: 120V 50HZ

Japan: 100V 50/60HZ

Europe: 220V 50HZ

China: 220V 50HZ



Motive Power Energy Transformation Enabler

- Your partner in powering the future. BSLBATT is your reliable powertrain battery supplier, offering customized OEM solutions, technical training, and 24/7 global support.

Huizhou Factory



- Floor Area
20000 m²
- Number of Employees
300+
- Delivered Capacity
2 Gwh

Anhui Factory



- Floor Area
4000 m²
- Number of Employees
100+
- Delivered Capacity
1 Gwh

Focus

Focus on motive power battery systems, rich product lines and compatible service experience.

Reliable

Carrier-level product quality, all passed national/industry standard testing and certification.

Innovation

Follow user demand orientation, constantly review product value, and continue to invest in technology.

