



Tiktok



Youtube



Website

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LiFePO4 Batteries For **AGV / AMR**

Give your equipment the ultimate power upgrade and reduce your operating costs with
BSLBATT® Lithium-ion Batteries.



www.lithium-battery-factory.com

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Business Card Binding Position

CORPORATE HISTORY

2011

Establishment WISDOM INDUSTRIAL POWER CO., LIMITED

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

2014

The Energy Storage Battery Division is growing rapidly, with product voltages extending to 48V/51.2V and an increasing range of applications.

Volume shipments of lithium batteries are also growing for the telecom sector and UPS.

2021

Established Huizhou BSL New Energy Technology Co., Ltd.

Launched the Huizhou lithium battery manufacturing and production line.

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

2024

Established a new automated and modern factory in Huizhou, with an annual production capacity of 2 GWh. Established a factory in Maanshan, Anhui, with an annual production capacity of 1 GWh.

Launched a full range of industrial and commercial energy storage products. Established a warehouse and office in Mexico.

Angel round financing.

2012

HUIZHOU WISDOM POWER TECHNOLOGY CO., LTD.

The lead-acid battery business was further expanded, and foreign trade sales exceeded 100 million yuan.

2018

Established a 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 growing rapidly.

2022

A 2,000-square-foot warehouse and office were established in Dallas, Texas, USA.

Our products have passed UL 1973, UL 2580, IEC, Australia CEC, and other international certifications.

2025

Expected sales to reach 700 million RMB. Established Japanese branch and office. Get certificate of Specialized, Refined, Differentiated, and Innovative Enterprise. Sales are expected to reach 100 million USD. IPO on the New Third Board.

2013

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.

The second generation of ESS modules has been developed.

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

2023

Over 90,000 solar batteries have been installed in residential properties worldwide. Over 10,000 power batteries are currently in operation worldwide. We have surpassed \$68 million in sales revenue. A European office and warehouse have been opened. Obtained high-tech enterprise certification.

2026

Go public on the Beijing Stock Exchange. Sales are expected to reach 150 million USD. Deploy 160 dealers. Global employees increase to more than 400.

113+
Countries

Global Deliveries

UL2580

The First Company In China To Obtain Certification

18197

Motive Power Lithium Batteries Deployed Worldwide

13+

Years Lithium Experience

6.2%

Continuous R&D Investment

3 **GWH+**

Delivered Capacity

Top 3

China Motive Power Lithium Battery Supplier



**Automated Guided Vehicle
Autonomous Mobile Robot**

Preferred Chinese lithium battery supplier



141+

Self-developed Patents



BSLBATT Powering the Automation OF SMART LOGISTICS

AGV/AMR Power Supply: From Lead-Acid to Lithium

- Traditionally, most Automated Guided Vehicles (AGVs) and Autonomous Mobile Robots (AMRs) relied on lead-acid batteries for power. However, the limitations of lead-acid technology—such as slow charging, frequent maintenance, short lifespan, and high total cost of ownership (TCO)—have accelerated the transition toward advanced lithium solutions.

The Rise of Lithium-Powered AGVs & AMRs

- Lithium battery systems are now the preferred choice, offering a clean, safe, reliable, and highly efficient energy source for automated logistics and manufacturing. These advanced solutions not only improve productivity and reduce downtime but also help facilities meet higher efficiency, sustainability, and operational safety standards.

Conventional Lead-Acid Power Systems

- Slow charging speed, requiring long downtime
- High maintenance requirements and short service life
- Limited cycle life, leading to frequent battery replacements
- Voltage drop under high load, reducing performance
- Higher total cost of ownership over time



The BSLBATT Advantage

BSLBATT has developed a fully integrated lithium iron phosphate (LiFePO₄) battery solution specifically engineered for AGV and AMR platforms. Our system seamlessly integrates the following core components:

- Modular LiFePO₄ battery packs
- Smart Battery Management System (BMS)
- Integrated Power Distribution Unit (PDU)
- High-efficiency fast charging compatibility
- 4G remote monitoring and diagnostics
- Low-temperature heating system for all-weather operation



Better Investment Value

Proven Technology

High Energy Density

Extended Life

Extremely Safe

Quick Recharge

Maintenance Free



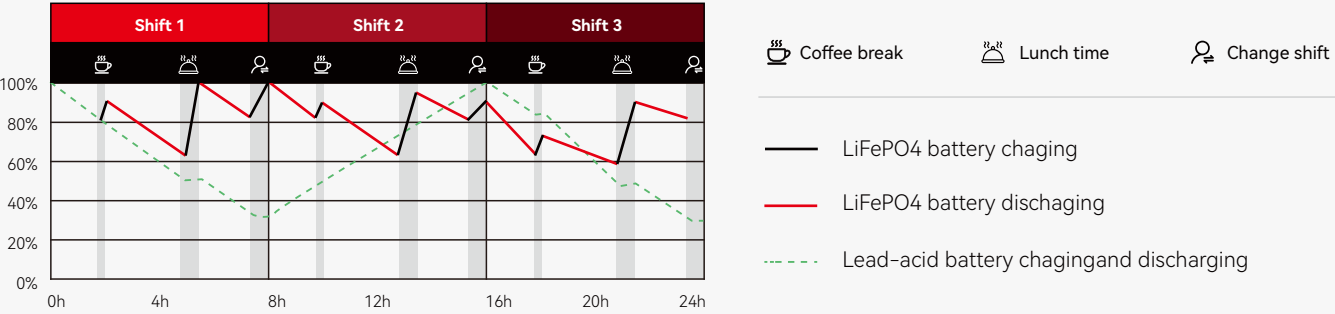
COST FACTOR	FLA	AGM	GEL	SL3ATT
PURCHASE COST	\$	\$ \$	\$ \$ +	\$ \$ \$
INSTALLATION COST	\$	\$	\$	\$
MAINTENANCE COST	\$ \$ \$	\$	\$	...
CHARGING COST	\$ \$ \$ \$ \$	\$ \$ \$ \$ \$	\$ \$ \$ \$ \$	\$ \$
REPLACEMENT COST	\$ \$ \$ \$ \$	\$ \$ \$ \$ \$ +	\$ \$ \$ \$ \$	...
REPLACEMENT LABOR	\$ \$ \$	\$ \$ \$ \$	\$ \$ \$	...
NO OF REPLACEMENTS	█ █ █ █ █	█ █ █ █ █ █ █	█ █ █ █ █	...
CYCLE LIFE	↻ ↻ ↻	↻ ↻	↻ ↻ ↻	↻ ↻ ↻ ↻ ↻ +
TOTAL COST OVER LIFE	\$ \$ \$ \$ \$	\$ \$ \$ \$ \$ +	\$ \$ \$ \$ \$	\$ \$

Charge At Any Time To Improve Efficiency

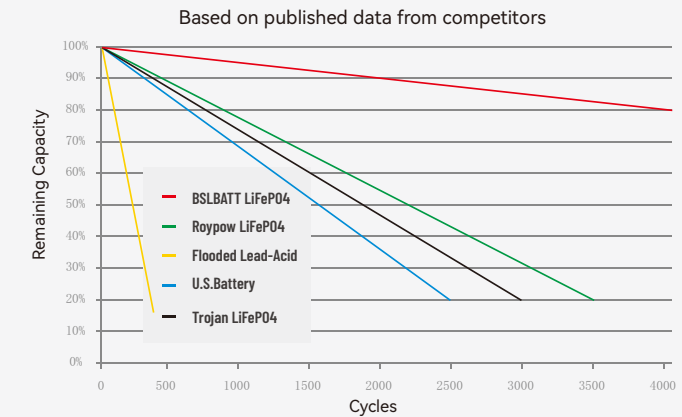
- Reduces the need for each charge
- No need to frequently replace time-consuming batteries
- Eliminates the risk of battery eplacement accidents
- Opportunistic chaging during breaks, lunch, and shifts. Charge at any time when the device is not in use



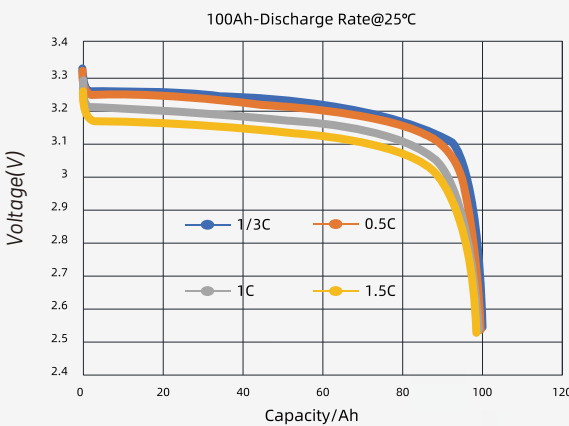
Typical charge and discharge of LiFePO4 batteries for 3 shifts



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

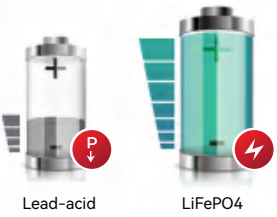


DISCHARGE CURRENT: 1/3C / 0.5C / 1C / 1.5C



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 eplacement
- Eliminate storage space and extra maintenance time
- No pollution, no need to add water, no odor, quiet and comfortable chaging





WHY CHOOSE

BSLBATT LiFePO4 Battery

BSLBATT adopts advanced Lithium Iron Phosphate (LiFePO4) battery technology, backed by over 13 years of industrial application experience, to deliver the ideal power solution for Automated Guided Vehicles (AGVs) and Autonomous Mobile Robots (AMRs). The system combines high performance, exceptional efficiency, superior safety, and truly maintenance-free operation—ensuring your smart logistics and production systems run at peak efficiency.

5-year warranty

Modular design

IP67 protection rating

≥4000 @80% DOD

15-year design life

Significantly reduced TCO

4G remote monitoring and diagnostics

Vibration and shock resistant design

Compatible with various
AGV/AMR platforms

24/7 operation capability

Fast charging and opportunity charging

Flexible scalability

Low-temperature heating function

Automotive-grade safety and reliability

True maintenance-free



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 reduction in power due to SOC drop



SOC display
Check power and fault prompts at any time



PDU configuration is flexible
Can be customized to meet different customer needs



Product list [Popular capacity]

Model	Nominal Voltage (V)	Nominal Capacity (Ah)	Nominal Energy (kWh)	Dimension(±2mm) Customizable L W H	Cycle Life
B-LFP12-50AGV	12.8	50	0.64	Customizable	≥4000@ 80%DOD
B-LFP24-50AGV	25.6	50	1.28	280 * 198.8 * 161	≥4000@ 80%DOD
B-LFP24-105AGV	25.6	105	2.68	376 * 319.2 * 160	≥4000@ 80%DOD
B-LFP36-75AGV	38.4	75	2.88	Customizable	≥4000@ 80%DOD
B-LFP48-67AGV	51.2	67	3.43	Customizable	≥4000@ 80%DOD
B-LFP48-105AGV	51.2	105	5.37	Customizable	≥4000@ 80%DOD
B-LFP60-50AGV	64	50	3.20	Customizable	≥4000@ 80%DOD
B-LFP60-105AGV	64	105	6.72	Customizable	≥4000@ 80%DOD
B-LFP72-105AGV	73.6	105	7.72	Customizable	≥4000@ 80%DOD
B-LFP96-105AGV	99.2	105	10.41	Customizable	≥4000@ 80%DOD

Working Temperature Range

Charge 32°F~131°F (0°C ~ 55°C)	Discharge -4°F~131°F (-20°C ~ 55°C)	Protection level IP65
Storage (1 month) -4°F~131°F (-20°C ~ 55°C)	Storage (1 year) 32°F~95°F (0°C~35°C)	Optional Bluetooth

Application vehicle

Automated Guided Vehicles (AGV)	Autonomous Mobile Robots
Tugger AGVs	AMR Tuggers
Unit Load AGVs	AMR Pallet Movers
Forklift AGVs	AMR Shelf/Cart Carriers
Pallet Truck AGVs	AMR Forklifts
Assembly Line AGVs	AMR Sortation Robots
	AMR Conveyor Top Models

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.
- BMS software ensures the battery delivers optimal performance during operation, extends runtime between charges, maximizes total battery capacity, and enables good communication between the charger, battery, and user.



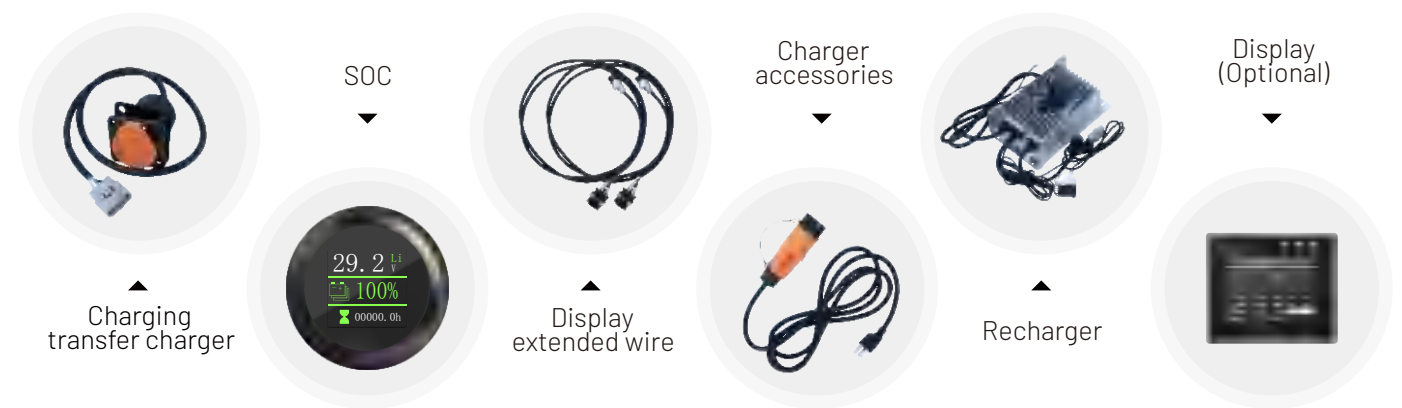
BSLBATT original charger

- **BSLBATT AGV 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	Rated Voltage	Max Current(A)
BSL12-20A	12.8	20
BSL24-20A	25.6	20
BSL24-50A	25.6	50
BSL36-20A	38.4	20
BSL48-25A	51.2	25
BSL48-50A	51.2	50
BSL60-35A	64	35
BSL60-50A	64	50
BSL72-50A	73.6	50
BSL96-100A	102.4	100

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



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.

