

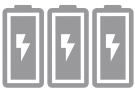
BSLBATT BATTERIES THAT
**POWER
PRODUCTIVITY.**

BSLBATT[®]
Best Solution Lithium Battery



Lithium iron phosphate batteries (LFP) for AGV, AMR & mobile robots

Through research and development, we challenge not only the industry, but ourselves, to push the boundaries further. This makes us a supplier to some of the largest AGV manufacturer in the world. We know vibration, water and harsh use are part of everyday conditions. That's why BSLBATT[®] ensures that the battery charger is strong enough for your everyday use and has a high IP67 rating to back it up. We know how to design and manufacture battery packs to optimize performance and safety, backed by UL listings and patent-protected intellectual property. Additionally, BSLBATT LiFePO4 batteries are not affected by regularly operating in a partial state of charge. It outperforms the competition in these areas.



LASTS LONGER

Up to 7x more cycle life than standard AGM. Validated at 3,000 cycles at 100% DoD vs. 400 cycles for AGM.



PERFORMS IN HARSH CONDITIONS

Robust performance in extreme temperatures and conditions. Temperature range from -4°F to 140°F (-20° C to 60° C) .



ROBUST

Lithium iron phosphate batteries are difficult to damage. If they are under-charged or left in a partial state of charge, they will not be damaged.



LOWER TOTAL COST OF OWNERSHIP

Changing batteries less often means fewer replacement and labor costs.



SAFETY

Inherently safe chemistry. BMS provides extra protection.



LONGER LIFE

Up to 10X longer life span compared to lead-acid batteries.

THE BSLBATT FAMILY YOU KNOW AND TRUST.

DEEP-CYCLE Lithium-iron (LFP) BATTERIES

with New Technology

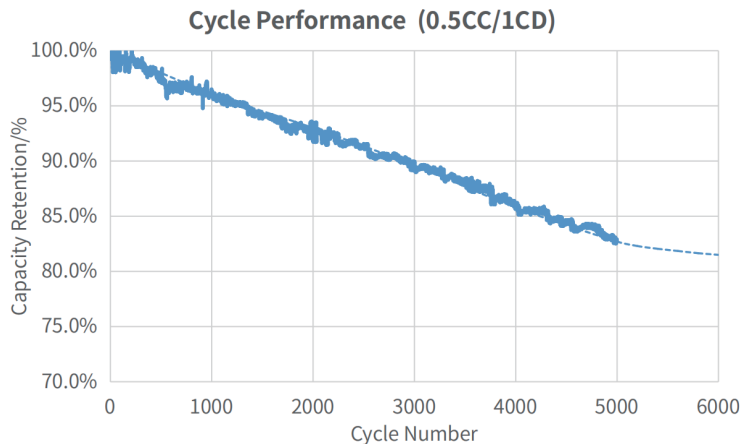
BSLBATT has developed Lithium-iron (LFP) with New Technology for a wide range of applications that require deep-cycling power such as floor machines. These batteries deliver increased total energy output, maximized sustained performance, consistent quality, and enhanced durability.

TECHNOLOGY INCORPORATES A WIDE RANGE OF FEATURES NOT FOUND IN MANY LITHIUM-IRON (LFP) BATTERY OFFERINGS:

- ◆ Stability in high-current-discharge applications
- ◆ Longer cycle life
- ◆ High conductivity
- ◆ High rate of discharge
- ◆ Improved performance in a wide range of temperatures
- ◆ Excellent thermal and hydrolytic stability
- ◆ Excellent anti-overcharging stability
- ◆ High-purity lipf6: >99.5%, free acid <50 ppm, water <20 ppm

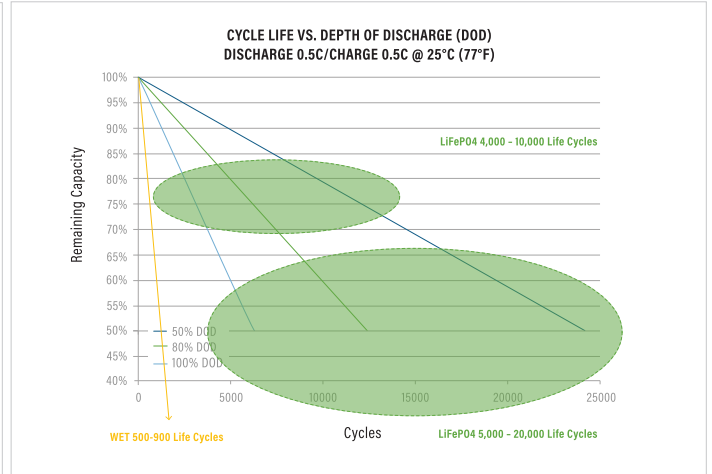
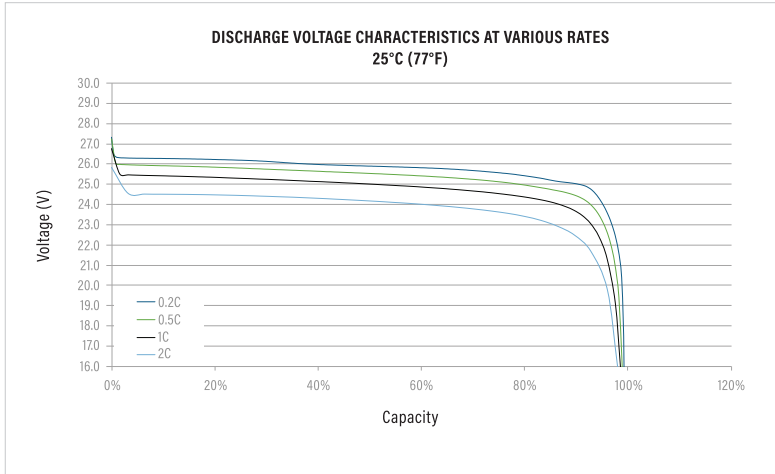
CUSTOM BUILT TO YOUR STANDARDS

Our Mission: The company takes the development and production of the advanced series "BSLBATT" (best solution lithium battery) as its mission. We've been in the battery business over 20 years and have learned how to build on success. Partner with BSLBATT and we'll work closely with you to build on yours. Not just by supplying batteries, but also with unmatched service, training and on-going support. Our product is batteries, but our business is relationships and helping yours succeed.



INCREASED RUNTIME INCREASED PRODUCTIVITY.

Lithium batteries charge quickly and can be opportunity charged without damaging the battery. This can significantly extend the range of your LiFePO4 battery per shift.



LITHIUM VS. LEAD-ACID COMPARISON FOR AGV MACHINES

	FLA	AGM	LiFePO4
Maintenance	High	Low	Zero
Life	2-4x	-	10-20x
Cost	0.5x	1x	4x
Sizes	Standard	Standard	Standard
Safe	Yes	Yes	Yes
Power	Declining	Declining	High & Constant
CHARGE			
Capacity	Partial	Partial	Full Rated
Charge Rate	Slow (10%)	Slow (20%)	Fast (100%)
Charge Time	Long	Long	Moderate (50%)
Charge Level	Full	Full	Partial/Full
Charge Frequency	Every Cycle	Every Cycle	Whenever
Partial State of Charge Tolerant	No	No	Yes

AGV Best Selling Battery Models

PRODUCT MODEL	INPUT VOLTAGE	CAPACITY	HOUSING MATERIAL	DIMENSIONS (mm)		
				Length	Width	Height
Battery Information						
B-LFP24-60	25.6	60	METAL	340	235	200
B-LFP48-20	51.2	20	METAL	180	129	280
B-LFP96-200	96	200	METAL	800	570	300
Other Parameters						
Operating Temperature Range	Charge: 0°C~45°C Discharge: -20°C~60°C					
Battery SOC Operating Range	0-100%					
Cycle Life	3500 (MOS solution 2000 cycles)					
Service life	More than 10 years					
Heating Function	Option					
BMS Power Consumption	≤3w					
SOC Theoretical Estimation Accuracy	±5%					
Single Unit Voltage Acquisition Accuracy	±5mV					
Temperature Acquisition Accuracy	±2°C					
Current Acquisition Accuracy	≤+0.5% FSR					
Equalized Current	≤100mA					
Protection Function	Over-current protection, over-charging protection, over-discharging protection, high and low temperature protection, abnormal alarm function.					

Note: Parameters can be adjusted according to customer requirements.

Flatbed Truck	
Power System Nominal Capacity	20/30/40/60/80/100Ah
Power system nominal voltage	360V (LiFePO4)
Maximum charging voltage	320V
Nominal charging current	0.5C
Minimum discharge voltage	300V (LiFePO4)
Continuous discharge current	0.5C
Maximum discharge current	1C (5S)
Charging ambient temperature	0~45°C
Discharge ambient temperature	-20~60°C

WE STAND BEHIND OUR PRODUCT!
5 YEARS WARRANTY



Scan the QR to learn more about which BSLBATT lithium battery is right for your equipment. Plus, you can see how easy installation will be!

Check with your equipment manufacturer if additional ballast weight is required.



LEADING THE CHARGE YESTERDAY, TODAY, AND TOMORROW.

You don't become the world's leading manufacturer of Lithium-iron (LFP) batteries by following others or being satisfied with the status quo. At BSLBATT, we have a long-established reputation for leadership, innovation, and a commitment to unsurpassed quality in every product we design and manufacture.

- ◆ BSLBATT Battery is dedicated to providing the safest, longest-lasting, and most cost-effective batteries across a broad range of industries including all makes and models of lift trucks (Class I, II, and III forklift types), airport ground support equipment, AGV, aerial platforms, Mini Excavator, Cleaning Machines, Golf Carts and more. Selling high-quality, technical products requires comprehensive and reliable service. Choosing BSLBATT batteries is choosing the future!
- ◆ We believe in the power of research and development and dedicate significant resources to bringing advanced battery technologies to market.
- ◆ Quality is at the heart of everything we do, and every battery we design and manufacture is subjected to the most rigorous industry testing procedures.


WORK WITH THE LEADERS IN LITHIUM


◆ Distributor & Dealer Network

We approach every partnership with openness: so we can understand your needs and you can understand our competencies, standards and commitment to delivery. Our resellers make all the difference and enjoy unparalleled support from our team of accomplished industry leaders. As a partner, we strive to understand everything about your needs today to help you anticipate tomorrow. And we invest heavily in continuous training to ensure your business's growth and success.



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