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WISDOM INDUSTRIAL POWER CO., LTD.

WIN-WIN | CHANGE | COOPERATION | INTEGRITY | RESPONSIBILITY



EV

BATTERY WHY LITHIUM GOLF CART BATTERIES ARE THE FUTURE

Nothing says you're dedicated to green energy and the environment like owning an electric vehicle for work or play. With an eco-friendly BSLBATT lithium iron phosphate (LiFePO₄) battery, you can take your commitment a step further while enjoying reliable power that emits no gasses, fumes, or pollution.

GREEN ENERGY THAT GO, GO, GOES.



WHO IS BSLBATT?

Our Mission: Best Solution Lithium Golf Cart Battery

- BSLBATT is a professional lithium-ion battery manufacturer, including R&D and OEM services for more than 18 years. Our products comply with ISO/CE/UL/UN38.3/ROHS/IEC standards.
- The company takes the development and production of advanced series "BSLBATT" (best solution lithium battery) as its mission.
- BSLBATT lithium products power a range of applications, including solar power solutions, microgrids, home energy storage, golf carts, RVs, marine, industrial batteries, and more.
- The company provides a full range of services and high-quality products, continuing to pave the way for a greener and more efficient future of energy storage.

R & D team

More than 30 staff, CTO is more than 15 years of experience in Energy storage areas
Li-ion battery field Marketing and after-sale services team: More than 40 staff.



Production capacity

1.44GWh. Production capacity is around 500 sets per day, 15,000-18,000 sets per month currently.



Patents

More than 20 till March 2022.



Distributor

more than 30 authorised distributors till end of 2021 distributed on 6 continents.



Certifications

ISO9001, ISO14001, CE, UL, UN38.3, IEC, TUV, PICC



Production base

More than 120000m².



Description

BSLBATT Committed to providing customers with safe, lightweight, and durable green energy products, the main product targets for base station and home energy storage batteries, industrial energy storage, small energy storage batteries, etc.



Product Standard

IEC61690, IEC62133
ISO 12405-1:2011
ISO 12405-2:2012
ISO 12405-3:2014



Lead time

4-6 weeks, depends on the quantity and customization requirements.

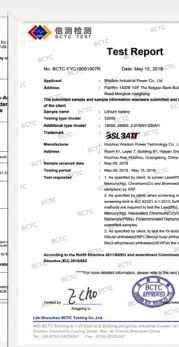


Export

More than 100 countries and regions.



WE HAVE OBTAINED 36 INVENTION PATENTS AND A UTILITY MODEL; 5 SOFTWARE COPYRIGHT.



100%

SAFE & RELIABLE

4X

LASTS 4X AS LONG

5X

CHARGES UP TO
5X FASTER

1/4

ONE QUARTER THE
WEIGHT

200%

TWICE THE POWER OF
TRADITIONAL BATTERIES



HIGHLY EFFICIENT

Fast recharge time and a 99% efficient recharge process, which means less wasted electricity.



MORE USEABLE CAPACITY

A 25-50% higher capacity than lead-acid batteries with full power available throughout discharge.



LIGHTER WEIGHT

Lithium batteries are typically half the weight of lead-acid batteries.



ECO-FRIENDLY

No gassing, no fumes and no pollution. Protect the environment, using these non-hazardous batteries.



PARTIAL STATE OF CHARGE (PSOC) TOLERANT

If operated in PSOC there is no damage. This is one of the leading causes of early failure in lead-acid batteries.



SAFETY

Inherently safe chemistry. BMS provides extra protection.



LOWER TOTAL COST OF OWNERSHIP

Changing batteries less often means fewer replacement and labor costs.



LONGER LIFE

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



MAINTENANCE-FREE

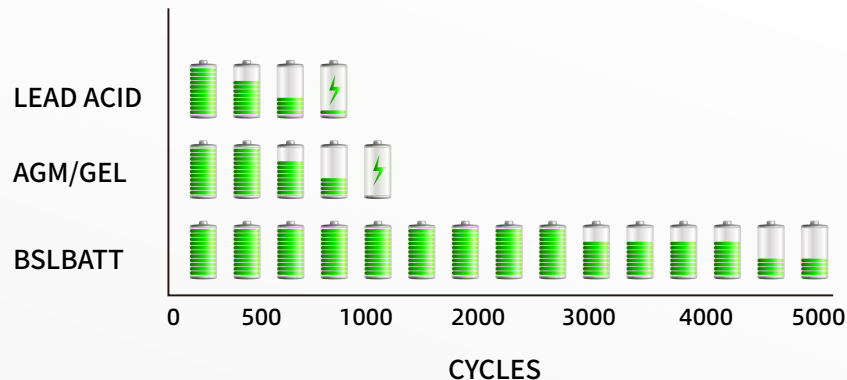
BSLBATT lithium batteries are maintenance free - no watering; no corrosion.

FEATURES AND BENEFITS



Fuel Your Passion With Bslbatt Lithium Battery Technology

See the benefits of BSLBATT lithium-ion batteries compared to lead acid and AGM/GEL. BSLBATT lithium batteries can last up to 5000 cycles longer than the competition.

BSLBATT LITHIUM BATTERIES CAN LAST UP TO 5000 CYCLES LONGER THAN THE COMPETITION.



Five year cost comparison Between bslbatt & lead acid batteries

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	
	\$ Cost Of Battery	✂ Installation	⚙ Maintenance	⚙ Maintenance	⚙ Maintenance	🔍 Battery Charger
	\$\$\$\$	\$\$				
					Total	\$\$\$\$\$\$
	\$\$	\$	\$	\$	\$	\$\$
					Total	\$\$\$\$\$\$\$\$

Bslbatt 48v vs lear-acid Golf car range by miles

	Standard 48V Lead Acid (Six at 8V or Four at 12V)	ONE BSLBATT Battery	Two BSLBATT Batteries	Three BSLBATT Batteries	Four BSLBATT Batteries	Five BSLBATT Batteries	Six BSLBATT Batteries
Miles	15-25	12-17	24-34	36-51	48-70	60-85	72-102

QUALITY YOU CAN RELY ON

You can customize a lot about your equipment, but you can't customize your battery.

That's for us to do, and you can trust that we did it right. Not only are BSLBATT batteries built smarter, but they're also built to the highest quality standards.

CONSTRUCTIONAL DIFFERENCES WITH BSLBATT LITHIUM BATTERY

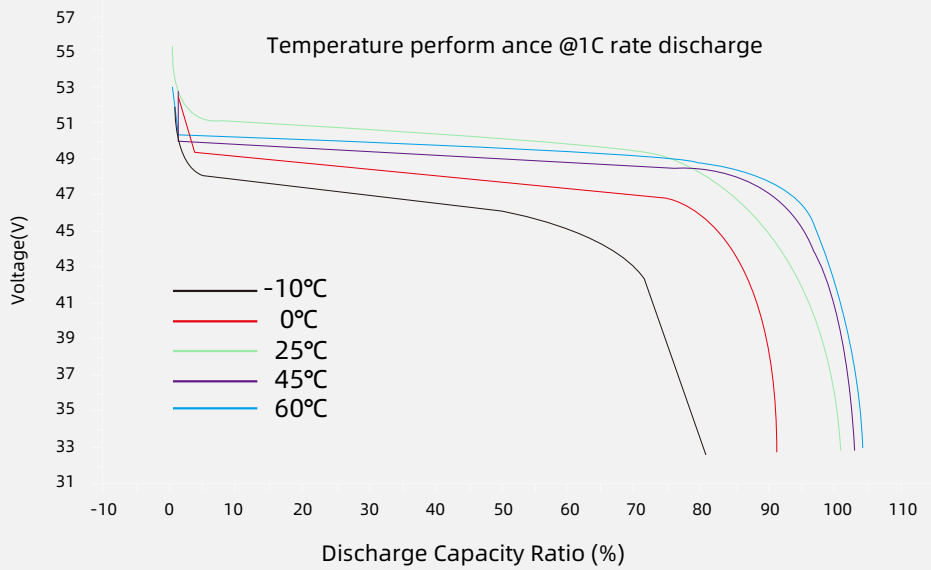
DIFFERENTIATOR	BENEFIT
Each Cell is Encased in Aluminum	Provides dimensional stability
Steel Battery Bracket	Provides vibration and shock resistance
External Heat Sink	Keeps BMS cool by providing heat dissipation to outside
BMS Bolted to Heat Sink	Reduces vibration and prevents accidental faults due to vibration and it extends battery life
Bolted Connections to BMS	Provides stable mechanical and electrical connections
Positive and Negative BusBar	Creates an exceptional current collector
IP67 Rated Casing	Ensures water, dust and splash-resistance
TUV, UN38.3, CE	Tested to the highest standards

TECHNICAL BSLBATT LITHIUM CURVE

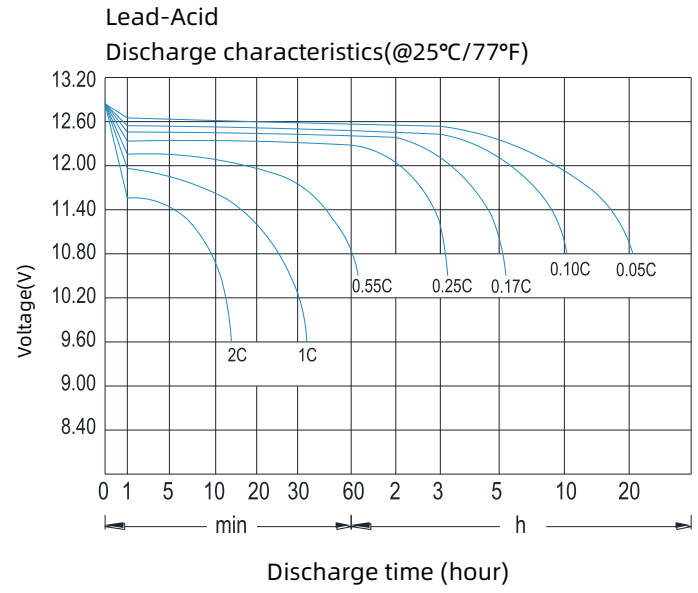
BSLBATT Lithium battery has a longer constant stable curve during discharge



ENVIRONMENT TEMPERATURE: 25°C



DISCHARGE CURRENT: 0.5C/1C/3C/5C



QUALITY & RELIABILITY BASED ON INNOVATION

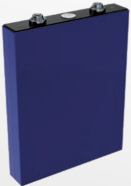


Metal case



- A steel container 10mm thick.
- Separate input to charge and charge.
- Shockproof coating.

LFP elements



- Steady discharge voltage.
- Life: Battery life exceeds 3000 cycles.
- Different temperature range.



Charging connector

- For easy operation, there is a charging system.
- The battery takes 1 to 2 hours to charge.



Bench board

- Built-in Wi-Fi.
- Magnetic base has a bright display.
- Charge levels are accurate to 1%.
- Displays errors and warnings.



QUALITY & RELIABILITY BASED ON INNOVATION

Maintain optimum temperature

The temperature of the battery is always within the optimum range.

BMS & Power circuit

- Continuous monitoring of crucial operating parameters (voltage, temperature and current)
- Fully regulated charge / discharge procedure and integrated balancing function for maximum protection and enhanced battery cycle life.
- Indication of the State of Charge (SoC)
- Golf car owners can view battery life on the batteries or via the optional dashboard battery gauge.
- It charges fast in two to four hours and is compatible with all leading charger brands.

Battery Interface

- Charging selection button fast_standard_slow
- On-board State of Charge display
- Single power-ON mounted on the battery
- Two integrated power plugs for easier recharging without removing the battery from the golf cart

There are smart charge patterns even in cold weather

A built-in heating system prevents the battery from freezing, and an automatic defrosting system restores the battery to function in an emergency.



Battery Housing

- Off-road durability tested. The battery meets SAE vibration tests, lasts two to three times longer than lead-acid batteries, and is backed by an eight-year warranty. Built with one of the highest levels of protection, the battery is also protected from dust, sand, and water.

Modular Design

- Maximum safety
- Full monitoring and balancing per cell
- Robust construction
- Serviceability

PRODUCT LIST (POPULAR CAPACITY)

Mode	capacity	Max continuous charge current (A)	Max continuous discharge current (A)	Max instantaneous discharge current (10S)	Battery system weight (Kg)	Battery box dimension (length*width*height) MM	Control method
B-LFP-36-60	38.4V67AH	40A	80A	150A	20	483*170*240	MOS+Bluetooth
B-LFP-36-80	38.4V86AH	80A	100A	150A	29	522*240*218	MOS+Bluetooth
B-LFP-36-100	38.4V104AH	60A	130A	250A	38	385*325*245	Relay
B-LFP-36-130	38.4V134AH	60A	130A	250A	46	508*344*170	Relay
B-LFP-36-150	38.4V156AH	80A	200A	300A	52	572*308*204	Relay
B-LFP-48-30	51.2V30AH	15A	50A	70A	13	250*170*245	MOS+Bluetooth
B-LFP-48-50	51.2V52AH	30A	100A	160A	26	436*325*215	MOS+Bluetooth
B-LFP-48-60	51.2V67AH	50A	80A	200A	32	436*325*215	MOS+Bluetooth
B-LFP-48-100A	51.2V104AH	50A	150A	300A	47	580*332.5*200	Relay
B-LFP-48-100B	51.2V104AH	50A	150A	300A	45	460*330*241	Relay
B-LFP-48-100C	51.2V104AH	50A	150A	300A	46	550*334*204	Relay
B-LFP-48-130	51.2V134AH	60A	150A	300A	58	580*333*245	Relay
B-LFP-48-150	51.2V156AH	80A	200A	400A	74	800*316*217.5	Relay
B-LFP-48-200A	51.2V200AH	100A	200A	400A	94	840*270*295	Relay
B-LFP-48-200B	51.2V208AH	100A	200A	400A	98	840*270*295	Relay
B-LFP-72-100A	76.8V104AH	50A	150A	300A	75	720*300*245	Relay
B-LFP-72-100B	76.8V104AH	50A	150A	300A	75	860*270*230	Relay
B-LFP-72-130	76.8V134AH	60A	130A	250A	94	870*260*273	Relay
B-LFP-72-150	76.8V156AH	80A	200A	400A	109	880*270*275	Relay
B-LFP-72-200	76.8V200AH	120A	200A	400A	142	1040*260*273	Relay

** For more forklift lithium batteries request, please contact our sales for support .

FORWARD-LOOKING, INDEPENDENT BATTERY



1 Track the entire battery parameters and each battery component
The voltage, charge and temperature of all batteries are always under control.

2 Autobalance
An active balancing system maintains the same level of charge on all elements.

3 Intelligent charge control
According to CANBUS real-time protocol, the battery controls charging device parameters (including charge current).

4 Intelligent thermostatic system
Maintain operating temperature regardless of service conditions.

5 Charge independence
BMS means to approach full charge or discharge and turn off the battery when the target value is reached.

6 Intelligent control system in case of emergency
This is a self-diagnosing system that gives advance notice of failures or incorrect modes of operation.



3-4 WEEKS TIMES

The average build time for customized Lithium batteries and battery Management Software ranges from 4 - 6 weeks Depending on the vehicle quantity And customization.

- Organization And Environment
- Related Party Needs And Expectations
- Customer Requirements



Confirm order	2 DAYS	✓
R&d drawing	5 DAYS	✓
Customer confirmation	3 DAYS	✓
Supplier production	5 DAYS	✓
Factory production	10 DAYS	✓

QUALITY MANAGEMENT SYSTEM

Customer satisfaction

QMS results

Products and services



Quality management model: a process-based management model, which reflects that customers play an important role in specifying input requirements, monitor customer satisfaction, and require the company to meet the customer's requirements.

Quality policy: Quality of all employees, Quality first, Best service, High customer satisfaction.

SUPPLIER MANAGEMENT

- Test sample
- Small batch trial production
- Supplier audit
- Regular coaching by suppliers

- Supplier Shipping Report
- Incoming inspection

- Material test
- FIFO Management

INCOMING INSPECTION

PROCESS CONTROL

- Incoming material (IQA)
- Coating (PQA)
- Production (PQA)
- Assembly (PQA)
- Infusion (PQA)
- Formation (PQA)
- Partitioning (PQA)
- Packaging (FQA)
- Shipment (OQA)

- Inspection confirmation every Lot shipment
- Packaging inspection

- confirmation
- Cell bar code
- confirmation check

SHIPMENT INSPECTION

RELIABILITY

- Cycle test
- Magnification test
- High and low temperature test
- High temperature storage test
- Thermal shock cycle
- High temperature and humidity

- Overcharge
- Short-circuit test
- Thermal shock test
- Heavy object impact test
- Squeeze test
- Drop test
- Puncture test

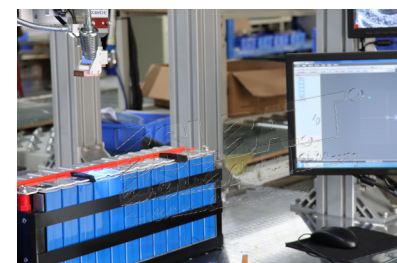
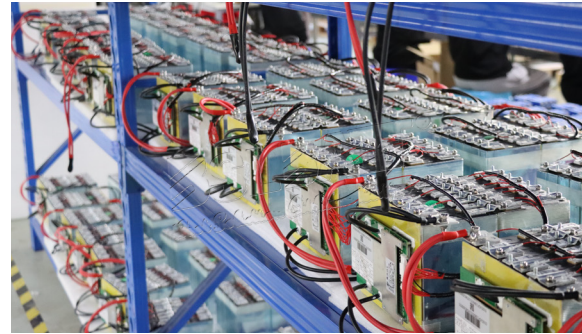
QUALITY CONTROL PROCESS

FACTORY ADVANTAGES

FOCUS - FOCUS ON MOTIVE POWER LITHIUM BATTERY PRODUCTS, RICH PRODUCT LINE AND GOLF CART SERVICE EXPERIENCE.

RELIABLE - OPERATOR-GRADE PRODUCT QUALITY, ALL PASSED NATIONAL/INDUSTRY STANDARD TESTING AND CERTIFICATION.

INNOVATION--FOLLOWING USER DEMAND ORIENTATION, CONSTANTLY REVIEWING PRODUCT VALUE AND CONTINUOUS TECHNOLOGY INVESTMENT.



As a global leader in the energy storage industry, BSLBATT is committed to continuously improving the existing energy storage technology, with the mission of "the best lithium battery solution".

RESEARCH AND DEVELOPMENT PLANNING

CONTINUE TO INVEST IN RESEARCH AND DEVELOPMENT, IMPROVE PRODUCT COMPETITIVENESS, LAYOUT OF CORE PATENTS, ESTABLISH PATENT BARRIERS.

Financial support

More than 10% of annual income is invested in RCD

Talent cultivation

The RCD team increases by 30% per group, and top international talents join each year.

Development goals

Convert from actual R&D to original R&D.

Intellectual property

Invention patent, utility program. Models and software Copyrights help build around and strong patents. Barriers to applying for US patents and PCT patents.

Common development

Good cooperation with famous universities at home and abroad, such as Hefei University, etc

Let every industrial vehicle driver in the world enjoy the extraordinary experience brought by the superior performance of BSLBATT battery.

· Vision

We have reached deep strategic cooperation with world-renowned cell manufacturers.

· Resources

Professional and reliable, keep improving, distinctive features, novel and high energy.

· Product concept

Customer first, respect for facts, timely and efficient, network all over the world.

· Service philosophy

Adopting automotive-grade Modular design ideas, series products are highly versatile .

· Manufacturing

SUPPLY CHAIN

ADVANCED GLOBAL
SUPPLY CHAIN MANAGEMENT SYSTEM

BRAND CENTER

BUILD AN INTERNATIONAL AND REPUTABLE BRAND FOR LITHIUM BATTERIES

BSLBATT INVITES FAMOUS DESIGNERS TO INVEST HEAVILY IN BRAND BUILDING AND PROMOTION AND DESIGN INTERNATIONAL BRAND IMAGE.



The target



Complete the layout of 118 dealers worldwide in 2022



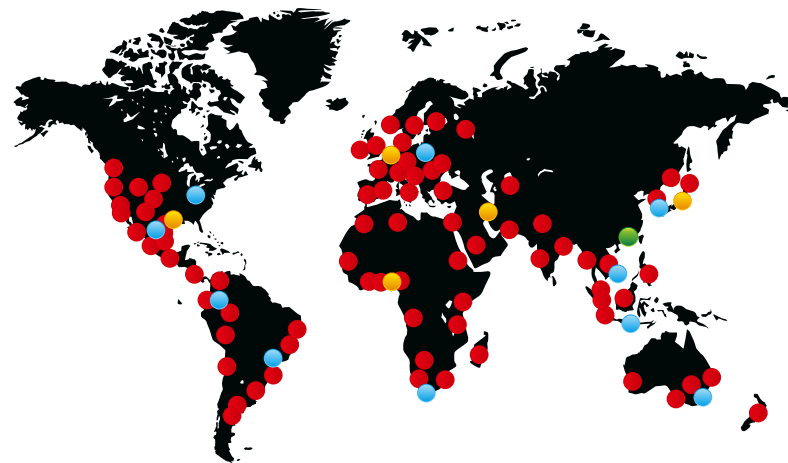
In 2022, golf cart lithium battery will exceed 120 million yuan (the company will exceed 350 million yuan), and golf cart lithium will rank top three
2023 golf cart lithium 250 million, the company 500 million; Initiate capital plan.



In 2025, company will achieve 600 million yuan of golf cart lithium battery, with the total sales exceeding 1.1 billion BSLBATT, ranking top 10 in the secondary market of golf cart lithium battery.



By the end of 2022, 2 overseas MINI plants will be completed, up to 7 by the end of 2023, 12 by the end of 2024, and 20 by the end of 2025 to complete the global layout.



- The company's headquarter
- Global branches and storage/after-sales centers
- Global processing centers
- Dealer layout

DEALER SUPPORT

Authorized dealers of BSLBATT
golf cart lithium battery in world



1

Financial Support

- Return in the end of the year if achieve annual sales target.
- Co-organized exhibitions and exchanges by customers (the cost may be split 50/50)

2

Provide technical support

- Provide technical training / product training / After-sales the training to dealer team.

3

Sales Material Support

- Cataloges, Videos, Picture Material, Shirt with BSLBATT logo, Etc.

4

Potential Customers Sources

- Provide and transfer some inquiries or potential customer information to dealer directly.

5

Quick-wear Part Back up Support

- Provide some quick-wear part for back up to meet some emergency after sales.

6

Agency Mode (service and support for agents)

- We offer price protection to regional dealers

LITHIUM GOLF CART BATTERIES

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