

Striving to grow into a global lithium batteries leader acknowledged and respected at home and abroad, BSLBATT® has for many years been in working hard on designing, developing and manufacturing high-technology lithium batteries for lithium industry and specialized applications.



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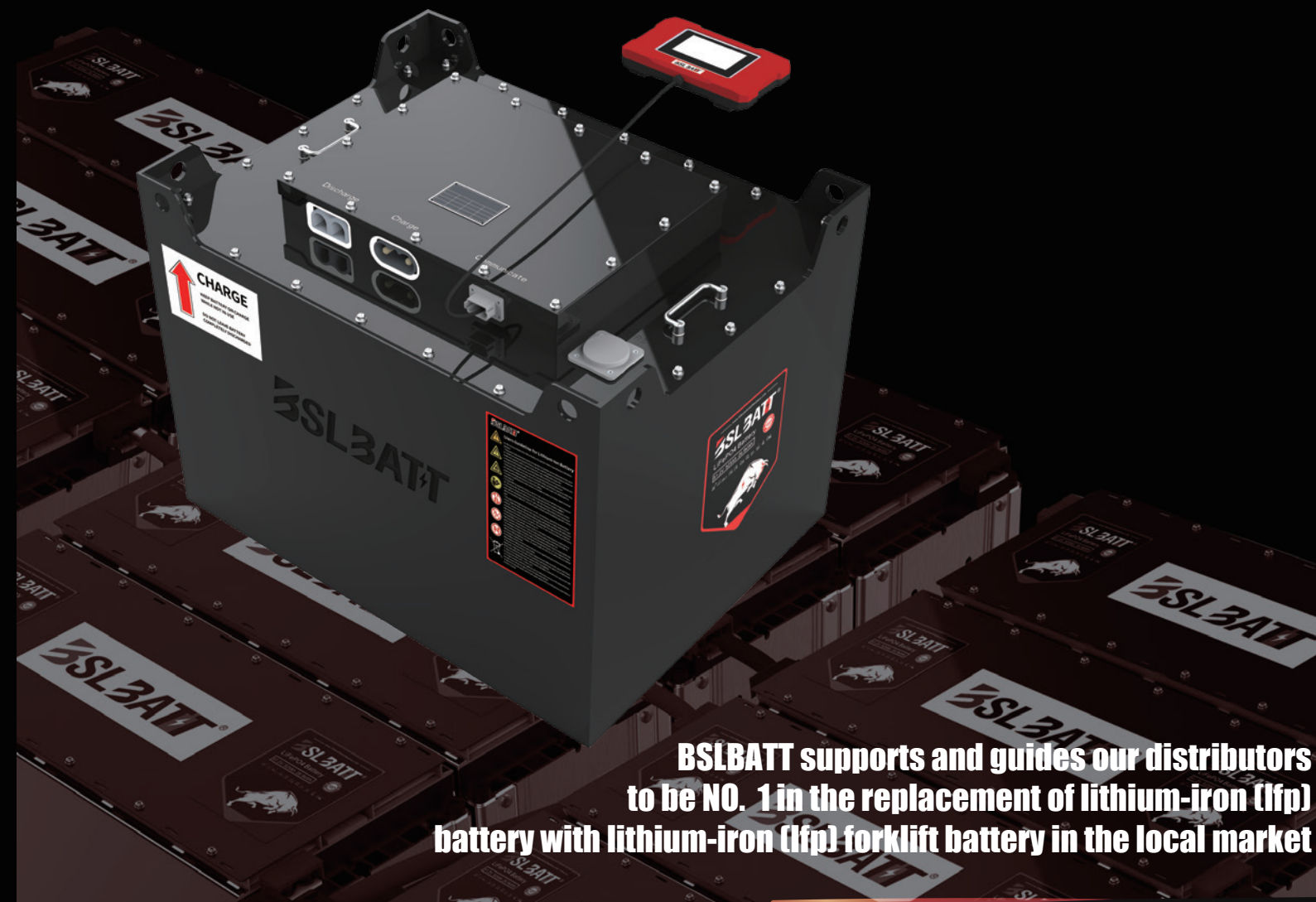
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LiFePO4 Battery

Drop-in Lithium-ion For Lead-acid Alternatives



BSLBATT supports and guides our distributors to be NO. 1 in the replacement of lithium-iron (lfp) battery with lithium-iron (lfp) forklift battery in the local market



www.lithiumforkliftbattery.com

BSLBATT Battery is an industrial lithium-iron (LFP) battery manufacturer based in China. Designed to meet the cost, performance, efficiency and durability requirements of the rugged warehouse environment. It includes application-specific cell chemistry and intelligent battery management electronics.

BSLBATT Battery has developed 43 lithium-iron (LFP) battery modules (100AH-1440AH) with different capacities. The coverage rate of forklift models exceeds 95%. With fully customizable features to fulfill the most demanding requirements.

The drop in replacement batteries make upgrading from Lead Acid to lithium-iron (LFP) simple. Each is independently connected to the internet and cloud, reporting constant health updates. These modules can be activated or deactivated remotely if a fault is detected. Finally, the replacement of these modules is quick and easy: just slide one module out and put in a new one! The batteries are sized to fit the standard motive power lead acid battery, along with meeting the truck battery weight requirements. With superior performance and safety....

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- 03 The benefits of lithium-iron (LFP) batteries
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- 10 Lithium-iron (LFP) forklift batteries
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New technology.

Create great value for your business

Converting from lead-acid to lithium-iron (LFP) is easy, cost effective and increases the productivity of the truck and the operator.

Retrofit your fleet to lithium-iron (LFP) batteries.

The lithium-iron (LFP) batteries can offer you...

- ⚡ Longer life reduces overall battery investment.
- ⚡ No maintenance saves labor and maintenance costs.
- ⚡ No gas or acid spills, avoids the space, equipment and running costs of a battery room and ventilation system.
- ⚡ Energy saving and less downtime, improve productivity.

Do not
hesitate,
your ideal batteries
are here.

FIVE YEARS COST COMPARISON

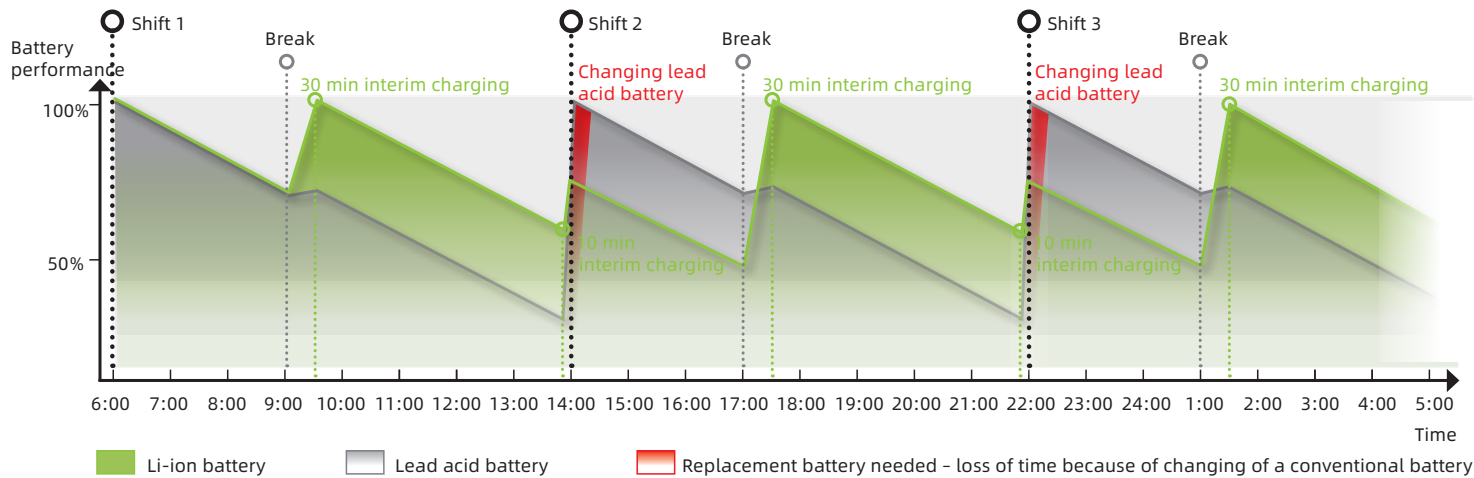
BSLBATT battery can save you up to 65% on forklift battery expenditures over five years,depending on your variables. Below is a typical five-year breakdown.









Equipments always remain in service when needed

opportunity charge is the best solution for multi-shift.

Lithium-iron (LFP) Technology:
Full performance during several shifts thanks to effective interim charging



ADVANTAGES OF Lithium-iron (LFP) VS. LEAD-ACID BATTERIES

| CHARACTERISTICS | Lead-acid Batteries | BSLBATT Lithium-iron (Lfp) Batteries |
|--|---|---|
|  MAINTENANCE | Maintenance required Extra cost | No Maintenance No extra cost |
|  CHARGING TIME | 8-10 hours 2 or more batteries per truck required for continuous operation | Less than 2 hours 1 battery per truck is enough for continuous operation |
|  OPPORTUNITY CHARGING | No Lower fleet availability due to charging breaks | Yes 100% fleet availability |
|  BATTERY LIFE | 1500 charge/discharge cycles Periodic battery replacement | 3500 charge/discharge cycles No need to replace batteries |
|  DANGEROUS SUBSTANCES | Yes Battery room is required | No, environmentally friendly Safe and clean technology Battery room is not required |
|  ELECTRICITY CONSUMPTION | Consumes 35% more energy Higher electricity costs | Consumes 35% less energy Lower electricity costs |

- ⚡ Reduces the need for a full charge everytime.
- ⚡ Eliminates the need for frequent time-consuming of battery swaps.
- ⚡ Eliminates the risk of battery changing accidents.
- ⚡ The battery in the truck can be charged directly during short breaks, and can be recharged at any time.



Save 70% expenses in 5 years

Advanced lithium-iron (LFP) power solutions

Efficient power

- ⚡ High sustained power.
- ⚡ 3,500+ life cycles at 80% depth discharge.
- ⚡ Up to 10 years design life.


Safe power

- ⚡ No acid spills, no combustible gases emissions.
- ⚡ Automotive-grade components with advanced quality.
- ⚡ More thermal & chemical stability.


Flexible power

- ⚡ Zero maintenance, no need for water top-ups or electrolyte checks.
- ⚡ No battery swapping for multi-shift operations.
- ⚡ No ventilation systems required.


Intelligent charging managemnet




Over-temperature protection




Short-circuit protection




Anti-reverse connection function




Smart display




Current limiting function




Automatic power off




Over-voltage protection




Timing protection




Wide voltage operation



Over-charge protection



Over-current protection



Constant current constant voltage

To use BSLBATT charger, the battery management system (BMS) can control the charging current according to different temperatures and SOC of the batteries.

BSLBATT’s intelligent BMS ensures the safety of the battery and improves the charging deficiency.

When the battery is at low voltage, the battery can be charged at low current to ensure battery safety.

When the battery is less than 10%, it will keep to prompt for charging.



Simply Efficient



Simply easy

Maintenance free operation: no need to refill water or check the acid level
User friendly: potentially no need to change batteries
Li-ion batteries maintain their performance level also at temperatures below freezing making them ideal for use in cold areas



Simply powerful

The high energy density of the Li-ion battery ensures long operating times and increases the high availability of the truck
High availability by quick opportunity charging without the need to change the battery
Longer truck performance thanks to stable voltage supply throughout the discharging process



Simply safe

Intelligent battery management: all important functions are monitored
Less physical strain: potentially no need to change batteries
Increased user safety: thanks to acid-free operation
No emission of battery gasses



Simply flexible

Opportunity charging at any mains wall outlet: no charging station required
Higher energy density for compact battery dimensions
Less organizational effort: pro-work checks and providing water are not needed



Simply connected

Communication between vehicle and intelligent battery control: a perfectly coordinated energy system (industrial truck, Li-ion battery and intelligent battery management) enables a long service life and efficient use of the truck
Intelligent charge management: Protects the battery and extends the operating and service life



MIXED FLEET SUPPORT

Compatible with Hyster-Yale, Crown, Toyota, Manitou, Clark, Raymond, Combilift, Jungheinrich, Doosan, Linde, Nissan, Hyundai, Caterpillar, JCB, Bobcat, KION group, UNICARRIERS, KOMATSU, HELI, HANGCHA, BYD, Mitsubishi, and more



To know more of BSLBATT

LiFePO4 batteries



1x

Battery per truck

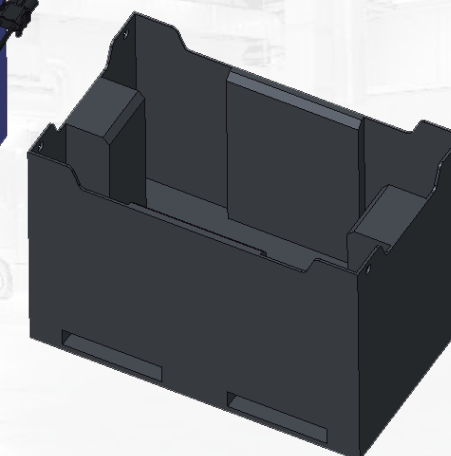
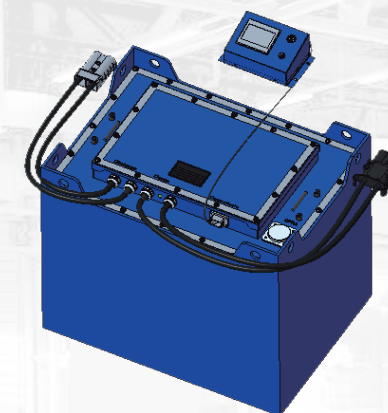
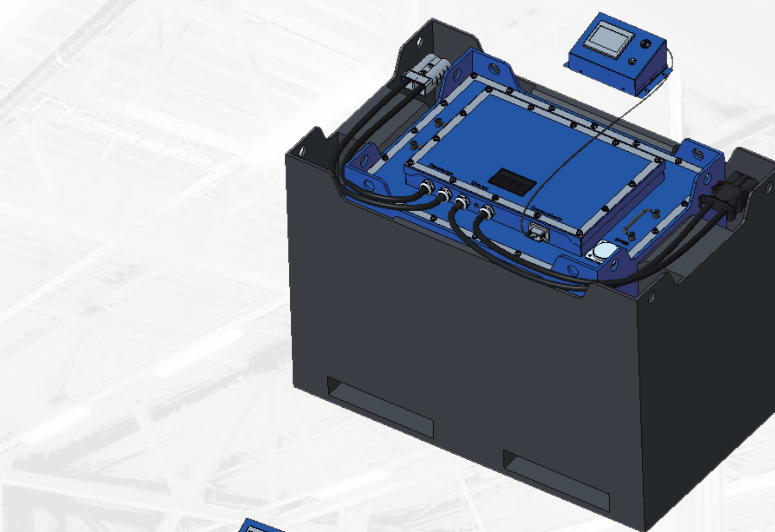
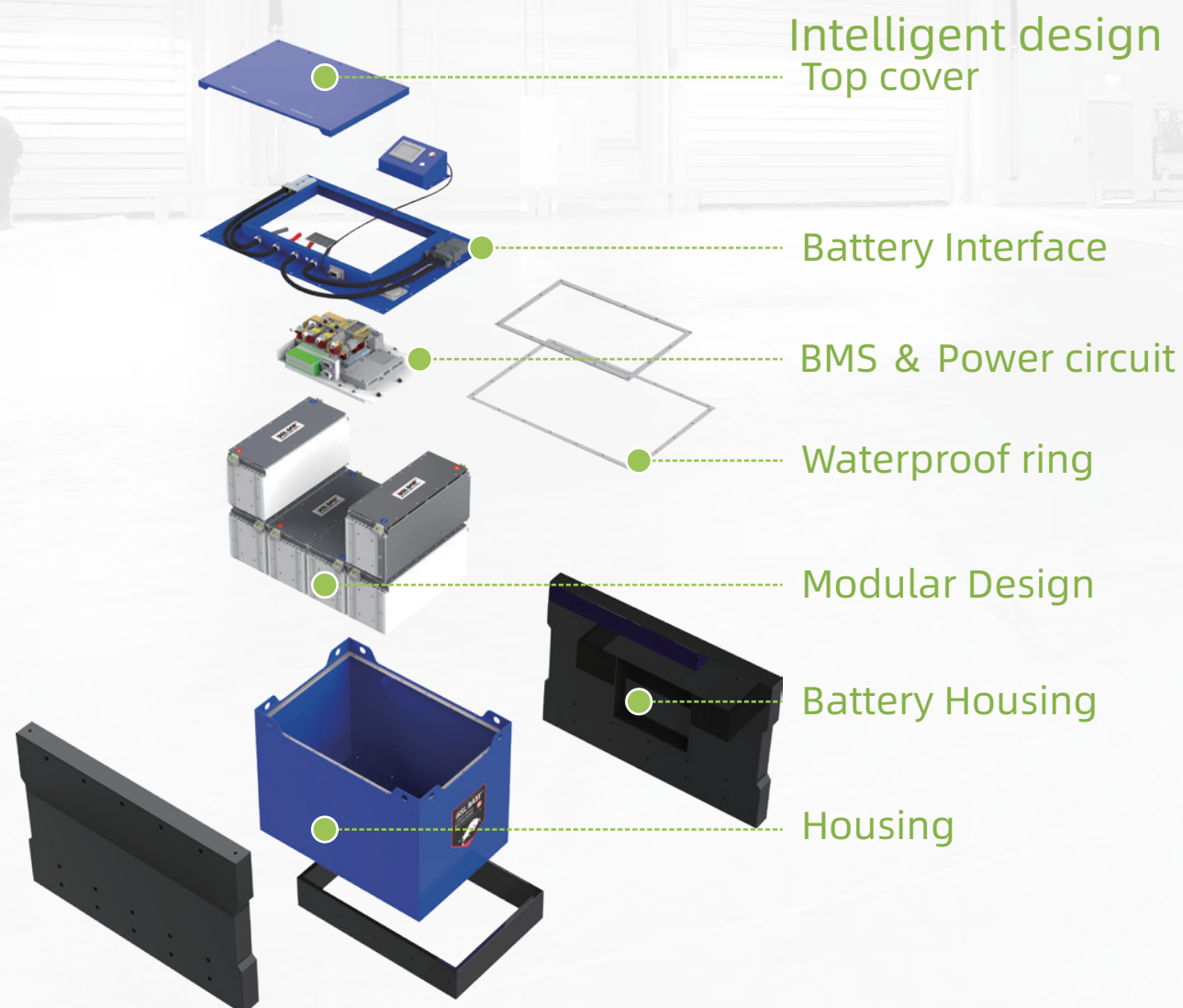
6000+

Life cycles

300A

Std charging speed

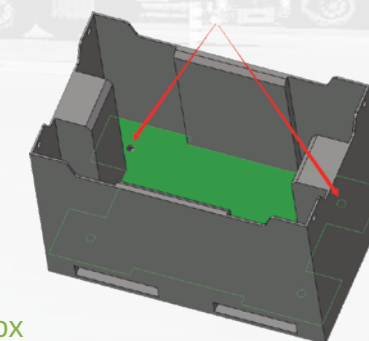
lithium-iron (LFP) Forklift Battery Components



Modular Technology

Your next truck might have a different compartment? Simply update your weight module to fit the new dimensions, weight and most optimized charge socket location.

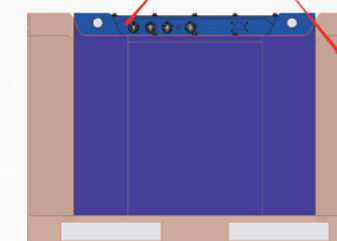
Distribution Box And Drainage Hole



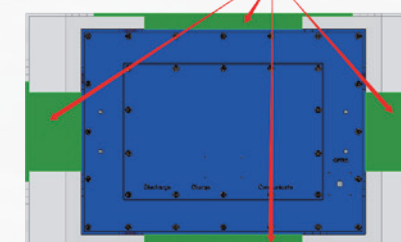
Standard options

Web Fleet Manager
300A charge speed
Single 1200A connector
Anti-Arcing
LED display
Remote LED BDI
Audible alarm
Truck integration ready

Standard Box Weight Box



Clump Weight



LiFePO4 forklift batteries

Lithium drop-in replacements for lead-acid batteries.



24 V lithium battery

- For higher productivity, retrofit your fleet to lithium-ion batteries. These batteries keep your equipment in passions all day long.
- Power your equipment up to 3 shifts a day!



36 V lithium battery

- For higher productivity, put LiFePO4 to your fleets.
- Power your passion, boost your business!



48 V lithium battery

- Not just a battery, but a new work and life style.
- Increased productivity and batter performance for your fleets!



80 V lithium battery

- Switch to lithium batteries - the new technology will upgrade your fleets dramatically.
- Ideal for multi-shift operation.

| Nominal Voltage | Lead Acid Equivalent | Series Number | Actual Capacity | | Battery Dimensions (LxWxH) | | Weight | |
|-----------------------|-----------------------------------|--------------------------------------|-----------------|--|----------------------------|---|--------|------|
| [V] | | | [Wh] | [Ah] | [in] | [mm] | [lbs] | [kg] |
| 24 | 12-85-5 | B-LFP24-100MH | 2560 | 100 | 24.6 x 8.1 x 24.7 | 624 x 207 x 627 | 467 | 212 |
| | | B-LFP24-135MH | 3456 | 135 | 24.6 x 8.1 x 24.7 | 624 x 207 x 627 | 467 | 212 |
| | 12-85-13 | B-LFP24-230MH | 5957 | 230 | 24.6 x 11.2 x 24.7 | 624 x 284 x 627 | 635 | 288 |
| | | B-LFP24-280MH | 7168 | 280 | 24.6 x 11.2 x 24.7 | 624 x 284 x 627 | 635 | 288 |
| | 12-125-13 | B-LFP24-300MH | 7680 | 300 | 24.6 x 11.2 x 24.7 | 624 x 284 x 627 | 635 | 288 |
| | | B-LFP24-405MH | 10368 | 405 | 24.6 x 14 x 24.7 | 624 x 356 x 627 | 798 | 362 |
| | | B-LFP24-460MH | 11776 | 460 | 24.6 x 14 x 24.7 | 624 x 356 x 627 | 798 | 362 |
| | | B-LFP24-540MH | 13824 | 540 | 24.6 x 16.9 x 24.7 | 624 x 428 x 627 | 959 | 435 |
| | 12-125-15 | B-LFP24-560MH | 14336 | 560 | 24.6 x 16.9 x 24.7 | 624 x 428 x 627 | 959 | 435 |
| | | B-LFP24-615MH | 15744 | 615 | 24.6 x 19.7 x 24.7 | 624 x 500 x 627 | 1131 | 513 |
| | 12-125-17 | B-LFP24-675MH | 17280 | 675 | 38 x 13.5 x 30.5 | 965 x 343 x 777 | 1624 | 727 |
| | | B-LFP24-840MH | 21504 | 840 | 38.2 x 14.1 x 30.6 | 970 x 357 x 777 | 1838 | 834 |
| 36 | 18-125-11 | B-LFP36-300MH | 11520 | 300 | 37.8x 13.6 x 30.5 | 960 x 345 x 777 | 1640 | 744 |
| | | B-LFP36-405MH | 15552 | 405 | 31.4 x 17.3 x 22.6 | 798 x 439 x 575 | 1146 | 520 |
| | 18-125-13 | B-LFP36-460MH | 17664 | 460 | 38 x 13.3 x 30.5 | 965 x 337 x 775 | 1649 | 748 |
| | | B-LFP36-540MH | 20736 | 540 | 38.1 x 15.6 x 30.5 | 969 x 397 x 775 | 2359 | 1070 |
| | 18-125-15 | B-LFP36-560MH | 21504 | 560 | 38.5 x 18.1 x 30.4 | 978 x 461 x 772 | 2597 | 1178 |
| | 18-125-17 | B-LFP36-615MH | 23616 | 615 | 38.5 x 27.1 x 22.6 | 978 x 689 x 575 | 2002 | 908 |
| | 18-85-13 | B-LFP36-690MH | 26496 | 690 | 38.3 x 20.2 x 30.5 | 973 x 512 x 775 | 2597 | 1178 |
| | 18-85-17 | B-LFP36-840MH | 32256 | 840 | 38.5 x 33.8 x 22.6 | 978 x 859 x 575 | 3000 | 1361 |
| | 18-85-19 | B-LFP36-920MH | 35328 | 920 | 38.7 x 38.5 x 22.6 | 982 x 978 x 575 | 3492 | 1584 |
| | 18-85-25 | B-LFP36-1120MH | 43008 | 1120 | 44.1 x 43.5 x 22.6 | 1120 x 1105 x 575 | 4001 | 1815 |
| Environment temp.rage | Charge -4°F~131°F (-20°C~55°C) | Discharge -4°F~131°F (-20°C~55°C) | | Storage (1 month) -4°F~131°F (-20°C~55°C) | | Storage (1 year) -32°F~95°F (0°C~55°C) | | |

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



Specifications for 48 V / 80 V system

| Nominal Voltage | Lead Acid Equivalent | Series Number | Actual Capacity | | Battery Dimensions (LxWxH) | | Weight | |
|------------------------|------------------------------------|---------------------------------------|-----------------|---|----------------------------|---|--------|------|
| [V] | | | [Wh] | [Ah] | [in] | [mm] | [lbs] | [kg] |
| 48 | 24-125-13 | B-LFP48-300MH | 15360 | 300 | 32.7 x 20.6 x 24.7 | 830 x 522 x 627 | 1561 | 708 |
| | 24-85-15 | B-LFP48-405MH | 20736 | 405 | 32.7 x 20.6 x 24.7 | 830 x 522 x 627 | 1561 | 708 |
| | 24-85-17 | B-LFP48-460MH | 23552 | 460 | 32.7 x 20.6 x 24.7 | 830 x 522 x 627 | 1561 | 708 |
| | 24-85-19 | B-LFP48-540MH | 27648 | 540 | 32.7 x 24.8 x 24.7 | 830 x 630 x 627 | 1887 | 856 |
| | 24-85-21 | B-LFP48-560MH | 28672 | 560 | 32.7 x 24.8 x 24.7 | 830 x 630 x 627 | 1887 | 856 |
| | 24-85-25 | B-LFP48-615MH | 31488 | 615 | 32.7 x 29.1 x 24.7 | 830 x 738 x 627 | 1887 | 856 |
| | | B-LFP48-690MH | 35328 | 690 | 32.7 x 29.1 x 24.7 | 830 x 738 x 627 | 2233 | 1013 |
| | 24-85-27 | B-LFP48-840MH | 43008 | 840 | 32.7 x 33.3 x 24.7 | 830 x 846 x 627 | 2561 | 1162 |
| | | B-LFP48-920MH | 47104 | 920 | 32.7 x 37.6 x 24.7 | 830 x 954 x 627 | 2561 | 1162 |
| | | B-LFP48-1120MH | 57344 | 1120 | 32.7 x 37.6 x 24.7 | 830 x 954 x 627 | 2899 | 1315 |
| 80 | 40-125-11 | B-LFP80-280MH | 23296 | 280 | 40.4 x 22.2 x 24.7 | 1026 x 564 x 627 | 2127 | 965 |
| | | B-LFP80-300MH | 24960 | 300 | 40.4 x 22.2 x 24.7 | 1026 x 564 x 627 | 2127 | 965 |
| | | B-LFP80-405MH | 33696 | 405 | 40.4 x 22.2 x 24.7 | 1026 x 564 x 627 | 2127 | 965 |
| | | B-LFP80-460MH | 38272 | 460 | 40.4 x 27.9 x 24.7 | 1026 x 708 x 627 | 2668 | 1210 |
| | | B-LFP80-540MH | 44928 | 540 | 40.4 x 33.5 x 24.7 | 1026 x 852 x 627 | 3214 | 1458 |
| | | B-LFP80-560MH | 46592 | 560 | 40.4 x 33.5 x 24.7 | 1026 x 852 x 627 | 3214 | 1458 |
| | | B-LFP80-615MH | 51168 | 615 | 40.4 x 33.5 x 24.7 | 1026 x 852 x 627 | 3214 | 1458 |
| | | B-LFP80-690MH | 57408 | 690 | 40.4 x 39.2 x 24.7 | 1026 x 996 x 627 | 3794 | 1721 |
| | | B-LFP80-840MH | 69888 | 840 | 40.5 x 39.3 x 30.9 | 1028 x 999 x 784 | 4802 | 2178 |
| Environment temp.range | Charge -4°F~131°F (-20°C~55°C) | Discharge -4°F~131°F (-20°C~55°C) | | Storage (1 month) -4°F~131°F (-20°C~55°C) | | Storage (1 year) -32°F~95°F (0°C~55°C) | | |

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Smart dispayl

Once the charger is connected, it will show the battery status for remaining charging time, and the operator can leave the truck between shifts or have a rest.

Where does BSLBATT lithium-ion batteries to charge?
Flexible

- ⚡ The batteries can be charged on the truck, no frequent battery swaps or no extra battery storage room needed.
- ⚡ The charging stations do not need a specific location with adequate ventilation system cause of no noxious gas emissions when charging.
- ⚡ The charging can be using anywhere convenient for the working areas of the electric forklifts.

Compare to the charging location for lead-acid batteries:

Needs extra batteries and battery storage room for swapping, cause they cannot be charged on the truck.

Needs specific charging room with ventilation system for noxious gas when charging.

How to charge?
Easy and safe



01 Drive to the forklift battery station

Drive to the forklift battery station, switch off, plug in the charging cable and apply the parking brake.



02 Automatically monitor

The charger and forklift will automatically monitor whether the safety environment and battery condition is suitable for charging, and if ok, the charger and forklift will automatically start charging.



03 Fully charged

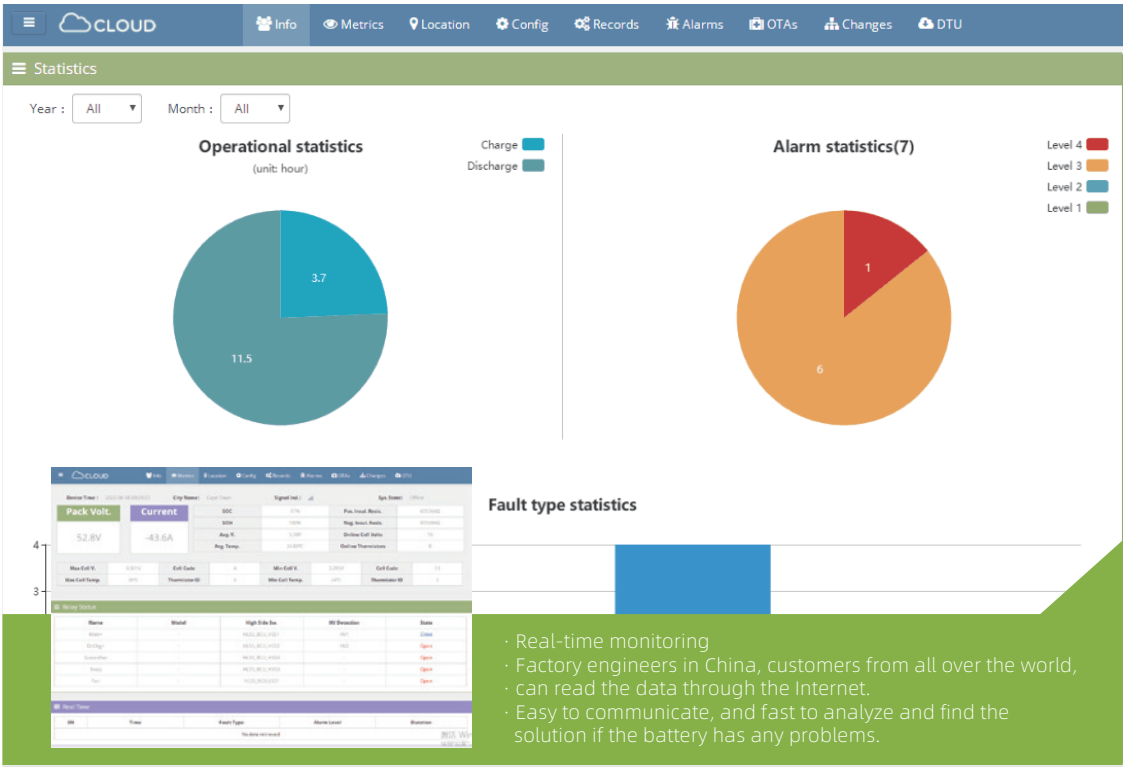
When the battery is fully charged, charging will stop automatically.

! During the charging process, without disconnecting the plug, the forklift cannot be started.

4G module

Display description

- ⚡ The complete information of the control panel interface is shown in the following figure:
- ⚡ The control panel display diagram
- ⚡ Alarm information display interface diagram
- ⚡ Single voltage display interface diagram
- ⚡ Screen interface settings display the interface diagram
- ⚡ Monomer temperature display interface diagram

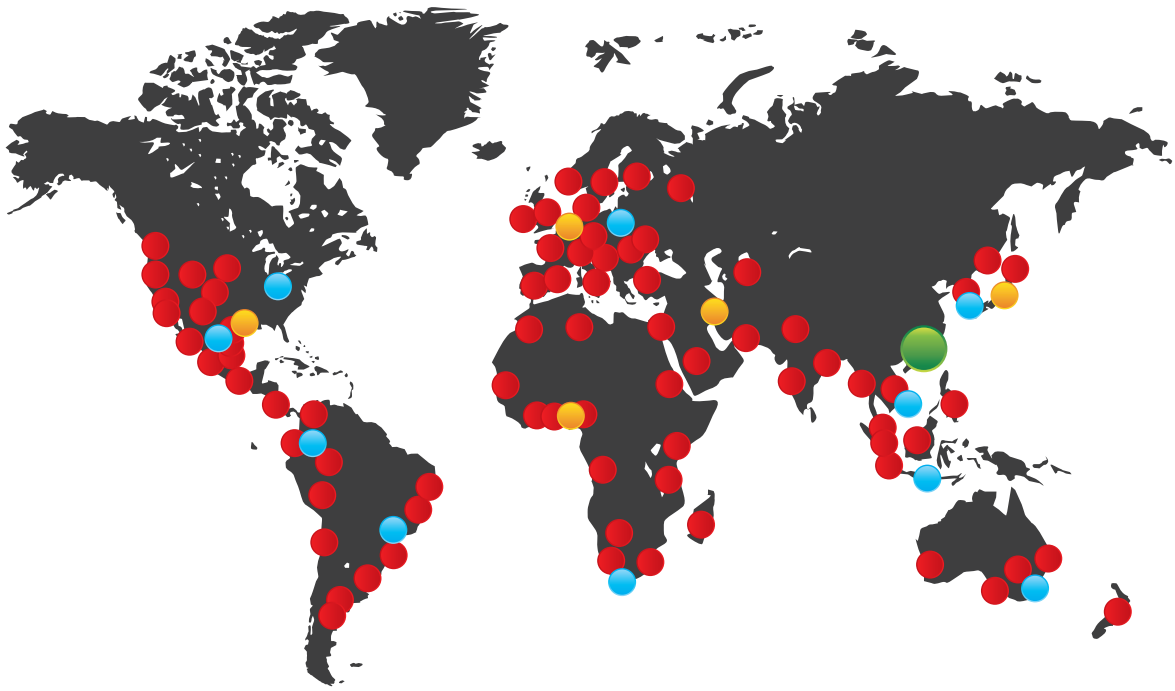


- Real-time monitoring
- Factory engineers in China, customers from all over the world, can read the data through the Internet.
- Easy to communicate, and fast to analyze and find the solution if the battery has any problems.

Global sales and service network system

- ⚡ Timely delivery.
- ⚡ Hassle-free after-sale service.
- ⚡ Fast response technical support.

BSLBATT has comprehensively unfolded its overseas market layout to realize the localization of R & D , manufacturing, marketing and service, then become your most reliable partner.



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

Create fleets.
Monitor each of your batteries:

- (SOC) State of charge
- (SOH) State of health
- Productivity
- Detailed charge/discharge events
- Errors
- Energy usage
- Temperature
- Life Cycle

Cloud platform



Authorized Dealers of BSLBATT Forklift Battery in the WORLD

Special support to dealers from BSLBATT



- 01 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).
- 02 Provide technical support**
Provide technical training/product training / After-sales the training to dealer team.
- 03 Sales Material Support**
Catalogs, Videos, Picture Material, Shirt with BSLBATT logo, Etc.
- 04 Potential Customers Sources**
Provide and transfer some inquiries or potential customer information to dealer directly.
- 05 Quick-wear Part Back up Support**
Provide some quick-wear parts for backup to meet some emergencies after-sales.
- 06 Agency Mode (service and support for agents)**
We offer price protection to regional dealers.