



Product Brochure >>>>

Lithium Battery Pack



ABOUT US

Company Profile

Hunan Fedepo New Energy Technology Co., Ltd. is located in Changsha, a famous city with long history. Affiliated with Five Intelligent Group, we are a national high - tech enterprise specializing in the R&D, design, production, and sales of new energy power batteries and energy storage batteries, the company has always adhered to the development philosophy of "Technology - led, Innovation - driven, Quality - first, and Serving the World". We are committed to providing safe, reliable, efficient, and intelligent overall lithium - battery - pack solutions for domestic and international customers.

Development Concept

Since the establishment, Febatt has actively implemented the strategy of open cooperation, deeply integrated into the development pattern of the global new energy industry, and established long - term and stable strategic cooperation relationships with several well - known domestic and foreign new energy cell manufacturers. At the same time, we have carried out comprehensive and in - depth cooperation with several well - known domestic universities and scientific research institutions, jointly promoting technological innovation and progress in the industry, and providing solid technical support and talent guarantee for the company's sustainable development.



Product Matrix

Febatt has a rich and diverse product matrix. In the field of electric mobility, our products are widely used in various vehicle types such as electric bicycles, electric motorcycles, electric tricycles, low - speed four - wheel vehicles, RVs, and sightseeing vehicles, providing efficient and stable power support for all kinds of electric transportation. In the energy storage field, our products cover application scenarios like home energy storage and industrial - grade power grid energy storage, effectively facilitating the efficient storage and rational utilization of energy and promoting the optimization and upgrading of the energy structure.

R&D Strength

We highly values technological research and development as well as innovation. We have a R&D team with high professional qualities and strong innovation capabilities. Currently, our R&D team have over 40 R&D engineers of various specialties, covering multiple disciplinary fields including materials science, electrochemistry, and electronic engineering. By the end of 2024, we had accumulated 33 patents related to lithium batteries.

Quality Management

In terms of quality management, Febatt fully implements the quality management policy of the parent group. We place the customer at the core of our operation and firmly adheres to the business philosophy that "Quality is life, and service is the soul." We have established a comprehensive quality management system. It conducts quality control throughout the entire process, from raw material procurement, product design and development, manufacturing, to after - sales service, to ensure that every product meets high - quality standards. By providing customers with high - quality, reliable products and comprehensive, personalized services, we have won widespread recognition and trust from domestic and international customers.

Company Honors



National High - tech Enterprise



Postgraduate Joint Training Base, Central South University



Postgraduate Joint Training Base, Xiangtan University

Product Certifications



Pack Workshop



Company Qualifications

🛡️ International Safety Certifications

The lithium battery packs produced by Febatt meet the requirements of international safety certifications such as UL and CE, ensuring the safety of products on a global scale.

🏭 Battery Management System (BMS) Certifications

The BMS systems equipped in Febatt's lithium battery packs comply with ISO quality standards. The BMS has multiple safety functions, including over - charge protection, over - discharge protection, short - circuit protection and so on which have guaranteed the safe using of the batteries.

♻️ Environmental Adaptability Tests

Febatt conducts strict environmental adaptability tests on lithium battery packs. The test items include high & low temperature tests, vibration tests, etc., which have ensured that the lithium battery packs can operate stably in different usage environments.



Partners



Core Technologies and Innovation Highlights

01 High Energy Density Battery Technology

Febatt adopts the latest material technology to significantly increase the energy density of batteries, extending the endurance of battery packs.

02 Modular Design

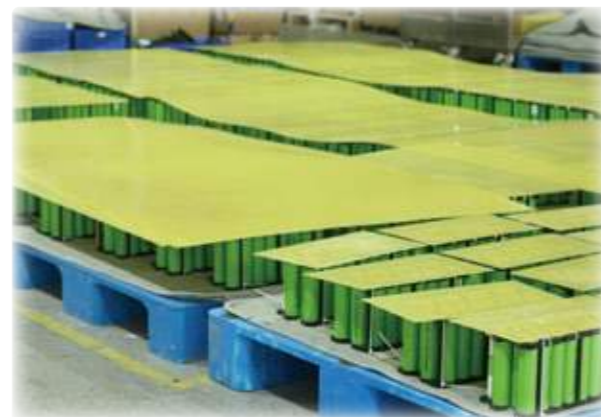
Through modular design, Febatt simplifies the assembly and maintenance processes of battery packs, greatly improving the production efficiency and flexibility.

03 Intelligent Temperature Control System

Febatt integrates advanced temperature control technology to ensure the stable operation of batteries in different usage environments and enhance product safety.

04 Glue-filling Technology

Febatt's unique glue-filling technology effectively provides insulation, fire protection, and waterproofing functions. The waterproof rating can reach IP67.



Customer Service and Technical Support



01 Customized Solutions

Febatt offers customized battery pack solutions according to the diverse needs of different customers, ensuring precise and efficient matching of products and services.

02 After - Sales Technical Support

Febatt has established a professional after - sales operation and maintenance team, providing customers with 24/7 technical support services to ensure that customers can receive timely technical assistance during the product usage process.

03 Long - Term Maintenance and Upgrades

Febatt provides customers with regular maintenance and product upgrade services, helping customers extend the service life of battery packs and maintain technological leadership.

Power Lithium Battery



Model: FEB4832(13S)
 Parameter: 48V 32Ah
 Dimension: 174x112x350mm
 Weight: 10±1kg



Model: FEB4850(13S)
 Parameter: 48V 50Ah
 Dimension: 350x174x112mm
 Weight: 10±1kg



Model: FEB4850(14S)
 Parameter: 48V 50Ah
 Dimension: 180x138x345mm
 Weight: 18±1kg



Model: FEB6076(17S)
 Parameter: 60V 76Ah
 Dimension: 227x149x335mm
 Weight: 23±1kg



Model: FEB7276(20S)
 Parameter: 72V 76Ah
 Dimension: 227x176x335mm
 Weight: 25±1kg



Model: FEB7280(20S)
 Parameter: 72V 80Ah
 Dimension: 228x170x352mm
 Weight: 27±1kg



Model: FEB6050(17S)
 Parameter: 60V 50Ah
 Dimension: 183x156x345mm
 Weight: 19±1kg



Model: FEB7250(20S)
 Parameter: 72V 50Ah
 Dimension: 228x150x345mm
 Weight: 23±1kg



Model: FEB4866(14S)
 Parameter: 48V 66Ah
 Dimension: 188x166x275mm
 Weight: 19±1kg



Model: FEB72120(20S)
 Parameter: 72V 120Ah
 Dimension: 612x200x145 (High 170) mm
 Weight: 43±2kg



Model: FEB72120(20S)
 Parameter: 72V 120Ah
 Dimension: 465x260x190mm
 Weight: 47±2kg



Model: FEB6066(17S)
 Parameter: 60V 66Ah
 Dimension: 188x166x332mm
 Weight: 24±1kg



Model: FEB7266(20S)
 Parameter: 72V 66Ah
 Dimension: 208x168x352mm
 Weight: 25±1kg



Model: FEB4850(14S)
 Parameter: 48V 50Ah
 Dimension: 230x143x340mm
 Weight: 22±1kg

Applicable Models (Two-wheeled Vehicle)



Power Lithium Battery



Model: FEB4840(16S)
Parameter: 48V 40Ah
Dimension: 196x160x323mm
Weight: 16±1kg



Model: FEB6040(20S)
Parameter: 60V 40Ah
Dimension: 218x176x323mm
Weight: 20±1kg



Model: FEB60110(20S)
Parameter: 60V 110Ah
Dimension: 585x306x216mm
Weight: 50±1kg



Model: FEB72110(24S)
Parameter: 72V 110Ah
Dimension: 700x306x200mm
Weight: 64±1kg



Model: FEB6055(20S)
Parameter: 60V 55Ah
Dimension: 450x290x185mm
Weight: 29±1kg



Model: FEB7255(24S)
Parameter: 72V 55Ah
Dimension: 450x290x225mm
Weight: 32±1kg



Model: FEB60110
Parameter: 60V 110Ah
Dimension: 580x306x159mm
Weight: 42±2kg



Model: FEB72110
Parameter: 72V 110Ah
Dimension: 630x306x159mm
Weight: 48±2kg



Model: FEB6080(20S)
Parameter: 60V 80Ah
Dimension: 450x290x225mm
Weight: 40±1kg



Model: FEB7280(24S)
Parameter: 72V 80Ah
Dimension: 480x270x227mm
Weight: 46±1kg

Applicable Models (Three-wheeled Vehicle)



Power Lithium Battery



Model: FEB60130(20S)
Parameter: 60V 130Ah
Dimension: 545x326x235mm
Weight: 69±1kg



Model: FEB72130(24S)
Parameter: 72V 130Ah
Dimension: 558x326x235mm
Weight: 73±1kg



Model: FEB60180(17S)
Parameter: 60V 180Ah
Dimension: 590x353x243mm
Weight: 69±2kg



Model: FEB72180(20S)
Parameter: 72V 180Ah
Dimension: 590x353x243mm
Weight: 76±2kg



Model: FEB60160(20S)
Parameter: 60V 160Ah
Dimension: 520x390x240mm
Weight: 77±0.5kg



Model: FEB72160(24S)
Parameter: 72V 160Ah
Dimension: 568x390x240mm
Weight: 90±1kg



Model: FEB72220(24S)
Parameter: 72V 220Ah
Dimension: 700x360x240mm
Weight: 104±1kg



Model: FEB72230(24S)
Parameter: 72V 230Ah
Dimension: 765x358x257mm
Weight: 122±1kg



Model: FEB60180(17S)
Parameter: 60V 180Ah
Dimension: 700x310x193mm
Weight: 66±2kg







Model: FEB72180(20S)
Parameter: 72V 180Ah
Dimension: 770x310x193 (High 200) mm
Weight: 73±2kg

Applicable Models (Low-speed Four-wheeled Vehicle)



Power Lithium Battery

-  Small Footprint
-  Long Life
-  Light Weight
-  Many Cycles



Model: FEB1250
Parameter: 12V 50Ah
Dimension: 229x144x208mm
Weight: 5.5±1kg



Model: FEB12100
Parameter: 12V 100Ah
Dimension: 330x170x217mm
Weight: 11±1kg



Model: FEB12150
Parameter: 12V 150Ah
Dimension: 330x170x217mm
Weight: 16±1kg



Model: FEB12200
Parameter: 12V 200Ah
Dimension: 502x187x243mm
Weight: 20±1kg

RV Lithium Battery

-  Intelligent Interconnection
-  High Protection
-  Vibration Resistance
-  Long Cycle Life



Model: FEB12100
Parameter: 12V 100Ah
Dimension: 328x172x216mm
Weight: 11.5kg



Model: FEB12200
Parameter: 12V 200Ah
Dimension: 522x238x217mm
Weight: 23.5kg



Model: FEB24100
Parameter: 24V 100Ah
Dimension: 522x238x217mm
Weight: 23kg



Model: FEB24200
Parameter: 24V 200Ah
Dimension: 522x238x217mm
Weight: 37.5kg

Applicable Models (Low-speed Four-wheeled Vehicle)



Applicable Models



Special Battery



Model: FEB2410
 Parameter: 24V 10Ah
 Dimension: 190×120×90mm
 Weight: 3Kg



Model: FEB2440
 Parameter: 24V 40Ah
 Dimension: 310×210×120mm
 Weight: 28kg



Model: FEB4850
 Parameter: 48V 50Ah
 Dimension: 420×300×170mm
 Weight: 30Kg



Model: FEB4860
 Parameter: 48V 60Ah
 Dimension: 400×500×90mm
 Weight: 34kg



Model: FEB2440
 Parameter: 24V 40Ah
 Dimension: 310×210×120mm
 Weight: 28kg



Model: FEB2460
 Parameter: 24V 60Ah
 Dimension: 265×250×100mm
 Weight: 7.5Kg



Model: FEB4880
 Parameter: 48V 80Ah
 Dimension: 580×180×140mm
 Weight: 20Kg



Model: FEB48100
 Parameter: 48V 100Ah
 Dimension: 240×300×460mm
 Weight: 54kg



Model: FEB4825
 Parameter: 48V 25Ah
 Dimension: 204×160×80mm
 Weight: 4.1Kg



Model: FEB4840
 Parameter: 48V 40Ah
 Dimension: 420×265×140mm
 Weight: 35kg

Applicable Models



Two/three-wheeled Electric Vehicle







Deep-sea Operations



Polar Scientific Research

Energy Storage Battery

- 
Small Footprint
- 
Long Service Life
- 
Light Weight
- 
Many Cycles



Model: FEB4850
Parameter: 48V 50Ah
Dimension: 440x300x132mm
Weight: 25±1kg



Model: FEB48100
Parameter: 48V 100Ah
Dimension: 442x420x132mm
Weight: 42±1kg



Model: FEB48150
Parameter: 48V 150Ah
Dimension: 450x580x177mm
Weight: 62±1kg



Model: FEB48200
Parameter: 48V 200Ah
Dimension: 482x550x235mm
Weight: 76±1kg





Applicable Models



Parking Air Conditioner Lithium Battery



Product Parameters
Model: FEB24225
Parameter: 24V 225Ah
Dimension: 463x368x188mm
Weight: 45±2kg
Applicable Voltage Platform: 24V
Power: 5.67kWh
Maximum Starting Current: 1000A
Maximum Continuous Discharge current: 250A
Waterproof Grade: IP67
Number of Cycles: 1800+
Operating Temperature Range: -33-55 C
Operating Voltage Range: 24-28.5V
Maximum Charging Voltage: 29.4V

- 
Large Capacity
- 
Long Service Life
- 
Quick Charging
- 
High Cycles

Applicable Models



Application Industry



Takeaway Industry



Food Delivery Vehicles



RV



Express Delivery Industry



AGV/RGV



Swapping Cabinets



Sanitation Industry



Intelligent Robots



Outdoor Power Supply



Special Vehicles



Patrol Vehicles



Security Communications

Applicable Models



Two-wheel Delivery Scooter



Two-wheeled Vehicle Rear Hanger Model



Two-wheeled Vehicle



Three-wheeled Vehicle



Low-speed Three-wheeled Vehicle



Low-speed Electric Vehicle



Golf Vehicle



Sanitation Vehicle



Patrol Vehicle



Motorized Vehicle For The Elderly



Sightseeing Vehicle



RV

Business Layout



- Provide One-Stop Solution
- 24/7 Technical Support
- Five Star Service, Win-Win For The Future