

Empowering Low-Carbon Living with Lithium Innovation





Core business includes research and production of 40AH-400AH large capacity lithium-ion battery cells, design and integration of electric vehicle and energy storage systems, technical consultation and services. Its battery products are widely used in transportation, power, industrial, communication and other fields.



Aluminum Prismatic LFP Cell

Plastic Prismatic LFP Cell

Cylindrical LFP Cell

APPLICATION





Our innovative solutions have made a global impact, reaching over 50 countries worldwide for nearly two decades. From North America to Europe, Asia to Oceania, and Africa, our products have found their place in diverse markets, including:

- Americas: United States, Canada, Brazil**
- Europe: UK, Germany, Italy, Spain, France, Belgium, Slovakia, Czech Republic, Bulgaria, Poland, Russia, Norway, Denmark, Sweden**
- Asia-Pacific: Australia, New Zealand, Malaysia, India, Indonesia, Japan, South Korea**
- Africa: South Africa, Tanzania, Nigeria**

Our versatile applications span across various industries: Electric Vehicles, Industrial Equipment: Forklifts, stackers, tractors, cranes, AGVs, Construction Machinery, Energy Storage: Residential, commercial, and industrial Marine Technology, Telecommunications



Advanced Materials: Uses high quality world-renowned battery material, like cathode material, we use top brand imported materials with excellent stability.



Multiple Capacity: Has full range cell capacity 40Ah ~ 400Ah Plastic and Aluminum case LFP cell, as well as various types of cylindrical LFP cells.



First-class Technology: Has world-class lithium battery production bases, institute for technology innovation and center of engineering and technology.



One-stop Service: Provides a one-stop service integrating design, measurement, production, delivery, installation, and after-sales service.



Standardization: Has always followed the standardization rules for a rigorous production process, saving time and cost for both parties and bringing maximum benefits to you.

Strict Quality Assurance & Honor CERTIFICATE



Has obtained more than **300+ patents**, various quality management system certifications (such as ISO9001, ISO14001, TS16949) and product quality certifications (such as PONY, UN38.3, ROHS, CE, UL, QC / T743-2006).



ADVANCED PROCESS FEATURES





1

LOW-TEMPERATURE DISCHARGE CAPABILITY:

-  **Customized Electrolyte:** With a high concentration of LiPF6 and special additives, it significantly enhances performance in extreme low temperatures.
-  **Electrode Materials:** Optimized particle size distribution for both anode and cathode materials to improve discharge efficiency at low temperatures.



2

HIGH CHARGE AND DISCHARGE RATES:

-  **Cathode Material:** Utilizes a proprietary aqueous LiFePO4 processing method, which boosts the battery's charge and discharge rates.
-  **Electrode Design:** The area density and compaction design of both anode and cathode ensure rapid lithium-ion movement for high-speed charging and discharging.
-  **Separator:** The thickness and porosity of the separator are meticulously designed to support high-rate capabilities while maintaining safety.
-  **Battery Housing:** Features excellent heat dissipation and a ventilated safety valve for protection during high-rate operations.

3

HIGH-TEMPERATURE PERFORMANCE:

-  **Plastic Housing:** Offers better safety and lower temperature rise compared to aluminum housing under the same conditions, enhancing safety at high temperatures.
-  **Structural Design:** Components are designed to exceed current load requirements, such as the pole and terminal connectors, ensuring stability during high-temperature operations.

ALUMINUM PRISMATIC LFP CELL

Aluminum Prismatic LFP Cells boast exceptional battery performance, featuring high energy density, along with comprehensive protection mechanisms including overcharge, over-discharge, short circuit, and thermal management systems. Ranging from 100Ah to 302Ah, or customized as your requirements, our batteries ensure stable voltage output and extended lifespan.

APPLICATION



New Energy Passenger Car



New Energy Bus



New Energy Professional Car



New Energy Construction



New Energy Ship



Telecom ESS



Grid ESS



100Ah



100Ah



166Ah



142Ah



210Ah



302Ah

Nominal Capacity

Nominal Voltage

Cycle Life (0.5C/0.5C, 80%DOD@25°C)

AC Internal Resistance (Fresh cell)

Energy Density (Mass energy density)

Weight

Size(LxWxH)mm

3.2V

3.2V

3.2V

3.2V

3.2V

3.2V

≥5000

≥4000

≥4000

≥4000

≥6000

≥8000

≤0.3mΩ

≤0.3mΩ

≤0.3mΩ

≤0.4mΩ

≤0.3mΩ

≤0.25mΩ

≥160Wh/kg

≥164.6Wh/Kg

≥177Wh/Kg

≥171.4Wh/Kg

≥167Wh/kg

≥175.7Wh/kg

2000g±100g

2100g±100g

3100±100g

2650±50g

4010g±120g

5500g±100g

173.9*28.8*207.6

174*48.8*121

173.9*48.8*172.4

222.3*49.7*116.1

173*54*218

174*72*207.7

PLASTIC PRISMATIC LFP CELL

Plastic Prismatic LFP Battery Cells are distinguished by their superior safety, enhanced performance, and commitment to environmental sustainability. They offer reduced temperature rises compared to aluminum batteries and comply with EU environmental regulations. The innovative use of non-PVDF water-soluble binders not only extends the battery's life cycle but also contributes to a cleaner, more efficient energy storage solution.

APPLICATION



New Energy Passenger Car



New Energy Bus



New Energy Commercial Vehicle



New Energy Construction



Special Application



New Energy Ship



Telecom ESS



Grid ESS



40Ah



60Ah



100Ah



200Ah



300Ah



400Ah

Nominal Capacity

Nominal Voltage	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V
Cycle Life (0.33C/0.33C, 80%DOD@25°C)	≥5000	≥5000	≥5500	≥5500	≥5000	≥5000
AC Internal Resistance (Fresh cell)	≤0.8mΩ	≤0.7mΩ	≤0.4mΩ	≤0.3mΩ	≤0.3mΩ	≤0.2mΩ
Discharge Max. Constant Current	10C	10C	10C	6C	4C	1C
Weight	1.4kg±0.1kg	1.9kg±0.1kg	3.0kg±0.1kg	5.5kg±0.1kg	9.0kg±0.1kg	9.0kg±0.1kg
Size(LxWxH)mm	116*46*186	116*61*184	142*61*221	180*69*280	360*53*308	450*71*285

CYLINDRICAL LFP CELL

Cylindrical LFP Cells offer a blend of safety, cost-efficiency, and sustainability. Chemically stable, they minimize fire risks, while their low material costs provide great value. These cells boast a long cycle life, ensuring durability and extended use. Their standardized design simplifies assembly for easy series and parallel connections. Eco-friendly and free of harmful substances, they are also recyclable. With strong temperature tolerance, they are suitable for a variety of environments, making them a versatile energy storage solution.

APPLICATION



Electric Vehicles (EVs)



Energy Storage Systems



Portable Electronic Devices



Power Tools



Telecom ESS



Renewable Energy Systems



18650



21700



26650



33140

Model

Nominal Capacity	2500mAh	3500mAh	3000mAh	15000mAh
Nominal Voltage	3.7V	3.7V	3.2V	3.2V
Cycle Life (0.33C/0.33C, 80%DOD@25°C)	≥1000	≥1000	≥2000	≥2000
AC Internal Resistance (Fresh cell)	≤30mΩ	≤30mΩ	≤17mΩ	≤8mΩ
Max. Continuous Discharge Current	3C	3C	10C	2C
Weight	45.5g±3g	50.5g±3g	85±30g	300±5g
Size(Hxφ)	65.2 x 18.3±0.2mm	70.4 x 21.4±0.2mm	65.2 x 26.4±0.2mm	140.2 x 33.2±0.2mm