ABOUT US

Sinopoly Battery Limited (“Sinopoly”) is an integrated high-tech group that specializes in the production, sales, and R&D of high-capacity lithium-ion battery and its related products.

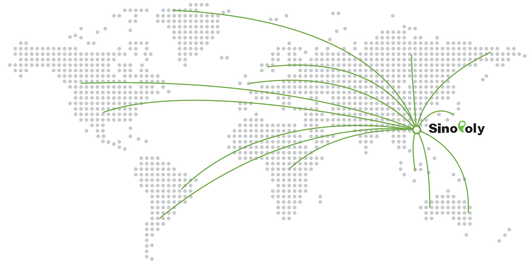
Sinopoly has different subsidiaries, including the R&D centre, cell production plant, battery pack assembly plant, etc.

POPULAR APPLICATION OF LITHIUM TO PROMOTE LOW-CARBON LIFE

The core business of Sinopoly includes research and production of 40AH~400AH large capacity lithium-ion batteries, 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 Lithium-ion Cell

APPLICATION



Sinopoly’s products have been widely used in over 50 countries globally, including the United States, Canada, Brazil, UK, Germany, Italy, Spain, France, Belgium, Slovakia, Crezh, Bulgaria, Poland, Russia, Norway, Denmark, Sweden, Australia, New Zealand, Malaysia, India, Indonesia, Japan, South Korea, South Africa, Tanzania, Nigeria and other international markets for about 20 years in various applications such as electric vehicles, forklift trucks, stackers, tractors, cranes, AGV, warehouse equipment, construction machines, residential/commercial/industrial energy storage, marine, telecommunications etc.

SINOPOLY’S ADVANTAGES

Advanced Material: Sinopoly uses high quality world-renowned battery material, like cathode material and uses top brand imported material with excellent stability.

Multiple Capacity: Sinopoly has a full-range capacity of 40Ah ~ 400Ah Plastic and Aluminum prismatic LFP cells, as well as various types of cylindrical LFP cells.

First-class Technology: Sinopoly has world-class lithium battery production bases, institute for technology innovation and centre of engineering and technology.

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

Standardization: Sinopoly has always followed 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

Sinopoly 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).

SINOPOLY’S ADVANCED PROCESS FEATURES

1 LOW-TEMPERATURE DISCHARGE CAPABILITY:

- Customized Electrolyte: With a high concentration of lithium salt and tailored additives, it significantly enhances performance in extremely low temperatures.
- Electrode Materials: Prioritizing top-tier sources with smaller particle sizes and minimal fluctuations in size range for enhanced low-temperature performance.

2 HIGH CHARGE AND DISCHARGE RATES:

- Cathode Material: Utilizes a proprietary aqueous LFP processing method, which enhances the battery’s charge and discharge rates.
- Electrode Design: The distinctive areal density and compaction design of both positive and negative electrodes guarantee rapid li-ion movement at high speeds.
- Separator: The thickness and porosity of the separator are meticulously designed to support high-rate capabilities while maintaining safety.
- Battery Case: Features excellent heat dissipation and a ventilated safety valve for protection during high-rate operations.

3 HIGH-TEMPERATURE PERFORMANCE:

- Plastic Case: Offers higher continuous discharge rate up to 10C, providing stronger power and energy with reduced temperature rises.
- Structural Design: The design of our structural parts exceeds the load current, such as the interception area of the pole and the terminal connectors, which are designed to tolerate a larger current, etc. (the pole is deliberately overdesigned)

CYLINDRICAL LITHIUM-ION CELLS

Sinopoly's Cylindrical Lithium-ion Cells offer a combination of safety, cost-effectiveness, and sustainability. With chemical stability to minimize fire risks and low material costs for great value, these cells also boast a long cycle life for durability and extended use. Their standardized design simplifies assembly for easy series and parallel connections. Additionally, they are eco-friendly, free of harmful substances, and 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

Model	18650	21700	26650	33140
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℃)	≥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

Sinopoly

Web: www.sinopolynewenergy.com / www.sinopoly.cn

Tel.: +86-755-86528305 **E-mail:** sales@sinopolynewenergy.com

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PLASTIC PRISMATIC LFP CELLS

Sinopoly's Plastic Prismatic LFP Cells are characterized by their exceptional safety, improved performance, and dedication to environmental sustainability. They offer a higher continuous discharge rate of up to 10C, delivering increased power and energy while minimizing temperature elevation. The innovative use of non-PVDF water-soluble binders not only prolongs the battery's lifespan but also contributes to a cleaner and 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

Nominal Capacity	40Ah	60Ah	100Ah	200Ah	300Ah	400Ah
Nominal Voltage	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V
Cycle Life (0.33C/0.33C, 80%DOD@25℃)	≥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	3C
Weight	1.4kg±0.1kg	1.9kg±0.1kg	3.0kg±0.1kg	5.5kg±0.1kg	9.0kg±0.1kg	12.8kg±0.3kg
Size(LxWxH)mm	116*46*186	116*61*184	142*61*221	180*69*280	360*53*308	450*71*285

ALUMINUM PRISMATIC LFP CELLS

Aluminum Prismatic LFP Cells offer outstanding battery performance, with high energy density and comprehensive protection mechanisms, including overcharge, over-discharge, short circuit, and thermal management systems. Available in capacities ranging from 100Ah to 302Ah or customizable to meet your specific requirements, our batteries ensure stable voltage output and extended lifespan.

APPLICATION

New Energy Passenger Car | New Energy Bus | New Energy Commerical Vehicle | New Energy Construction | New Energy Ship | Telecom ESS | Grid ESS

Nominal Capacity	100Ah	100Ah	142Ah	166Ah	210Ah	302Ah
Nominal Voltage	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V
Cycle Life (0.5C/0.5C, 80%DOD@25℃)	≥5000	≥4000	≥4000	≥4000	≥6000	≥8000
AC Internal Resistance (Fresh cell)	≤0.3mΩ	≤0.3mΩ	≤0.4mΩ	≤0.3mΩ	≤0.3mΩ	≤0.25mΩ
Energy Density (Mass energy density)	≥160Wh/kg	≥164.6Wh/kg	≥171.4Wh/kg	≥177Wh/kg	≥167Wh/kg	≥175.7Wh/kg
Weight	2100g±100g	2000g±100g	2650±50g	3100±100g	4010g±120g	5500g±100g
Size(LxWxH)mm	173.9*28.8*207.6	174*48.8*121	222.3*49.7*116.1	173.9*48.8*172.4	173*54*218	174*72*207.7

Sinopoly

SINOPOLY BATTERY

Popular application of lithium to promote low-carbon life

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