

Global Lithium-ion Energy Storage Battery Cells Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lithium-ion Energy Storage Battery Cells market size is expected to reach \$ 101151 million by 2032, rising at a market growth of 15.8% CAGR during the forecast period (2026-2032).

Lithium-ion energy storage battery cells refer to the basic electrochemical units used in energy storage systems on the generation side, grid side, commercial and industrial side, residential side, as well as in telecom backup power and data centers, to store and release electrical energy. They are typically composed of a cathode, an anode, a separator, electrolyte materials, and a casing, and operate through the reversible migration of lithium ions between the cathode and anode during charging and discharging. As the core component of an energy storage battery system, the cycle life, safety, energy efficiency, consistency, rate performance, and high- and low-temperature adaptability of the cells directly affect the economics, operational stability, and service life of the energy storage system. In 2025, global output of lithium-ion energy storage battery cells reached 612.39 GWh, with an average selling price of US\$52.5/kWh.

Lithium-ion energy storage battery cells are positioned in the midstream of the new energy storage value chain and are the core electrochemical units responsible for storing, releasing, and regulating electrical energy within energy storage systems. Their upstream mainly includes cathode materials, anode materials, separators, electrolyte materials, copper foil, aluminum foil, structural components, and manufacturing equipment, while their downstream connects to battery system integrators, PCS suppliers, EPC contractors, project owners, and grid operators. Compared with power batteries, energy storage battery cells place greater emphasis on cycle life, safety, consistency, system cost, and levelized lifetime cost of electricity. Their requirements for instantaneous high-power output are relatively lower than those in some vehicle

applications, but their requirements for long cycle life, long-duration storage, and pack-level stability are higher. Therefore, this industry is essentially an advanced electrochemical materials industry that combines technology, manufacturing, and engineering applications.

From a product structure perspective, lithium iron phosphate has become the dominant chemistry route for lithium-ion energy storage battery cells and is now the mainstream choice in utility-scale storage, commercial and industrial storage, and residential storage, mainly because it offers stronger overall advantages in safety, cycle life, cost control, and supply chain maturity. In terms of application structure, the market can mainly be divided into generation-side storage, grid-side storage, commercial and industrial storage, residential storage, telecom backup, and data center storage. Among these, large-scale storage projects have the strongest demand for high-capacity, long-life, and low-cost cells, while residential storage places greater emphasis on volumetric efficiency, certification systems, and brand compatibility. In terms of form factor, large-capacity prismatic aluminum-shell cells remain the mainstream direction, and products are continuing to evolve toward larger ampere-hour capacity, longer cycle life, higher safety, and better suitability for longer-duration storage applications. According to InfoLink, global energy storage cell shipments maintained strong growth in 2025 and are still expected to continue expanding at a mid- to high-speed pace in 2026, indicating that this segment remains in an upcycle.

From a manufacturing perspective, the lithium-ion energy storage battery cell industry has strong characteristics of large-scale manufacturing. Its core processes are similar to those of power batteries and mainly include slurry mixing, coating, calendaring, slitting, winding or stacking, assembly, electrolyte filling, formation, and grading. However, energy storage products have more specialized requirements in formulation design, electrode consistency, pack integration compatibility, and long-cycle reliability validation. In terms of single-line capacity, the industry has gradually upgraded from smaller-scale production lines in its early stage to high-throughput lines with several GWh of annual capacity. Public disclosures from some leading companies show that newly built energy storage lines are moving toward higher throughput and larger platform-based layouts. For example, Zenergy has disclosed that its new production lines are advancing toward more than 30 ppm per line while simultaneously planning 20 GWh- and 50 GWh-scale energy storage projects. Public materials from EVE Energy have also mentioned super-factory lines for energy storage that can reach 10 GWh per line, reflecting the industry's transition toward larger-capacity, higher-efficiency, and super-factory-oriented development.

From the perspective of cost and profitability, raw materials remain the main cost component of lithium-ion energy storage battery cells, with cathode materials, anode materials, separators, electrolyte materials, copper foil, aluminum foil, and structural components accounting for the largest shares, while manufacturing costs mainly come from depreciation, energy consumption, labor, and yield loss. In recent years, as material prices have declined and capacity has continued to expand, energy storage cell prices have entered a downward trend, and competition has gradually shifted from whether capacity exists to broader competition in cost, yield, customer resources, and cash flow. In terms of gross margin, leading companies are generally able to maintain relatively stronger profitability resilience by relying on economies of scale, stronger bargaining power in the supply chain, overseas customer structure, and technology platform advantages. For the industry as a whole, however, mid- and lower-tier companies are more vulnerable to low-price competition and utilization fluctuations, so the industry's average gross margin is better understood as being in the low- to mid-teens range.

From the perspective of competition and development trends, the lithium-ion energy storage battery cell industry has moved from an early stage of rapid capacity expansion into a stage of continuous concentration improvement. Leading companies are steadily expanding their market share through capital strength, technical accumulation, system customer resources, and overseas certification capabilities, while second-tier players are more focused on finding breakthroughs through niche scenarios, regional customers, and differentiated products. Future industry development is likely to center on five major directions. First, large-capacity cells will continue to iterate in order to reduce system-side integration costs. Second, long cycle life, high safety, and wide-temperature-range performance will continue to improve in order to serve a broader range of grid and commercial and industrial applications. Third, overseas localized manufacturing and certification system development will accelerate to address trade barriers and regional delivery needs. Fourth, the business model will continue to expand from simply selling cells toward system coordination, scenario-based adaptation, and full-life-cycle services. Fifth, lithium-ion technology is expected to remain the dominant route, but it will also face growing marginal competition from newer chemistries such as sodium-ion batteries in certain storage applications. Overall, the industry remains in a growth stage, but differentiation among companies is expected to widen further, and the core of competition will gradually shift from simple capacity expansion toward comprehensive manufacturing capability, customer stickiness, and global operational capability.

This report studies the global Lithium-ion Energy Storage Battery Cells production,

demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium-ion Energy Storage Battery Cells and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Lithium-ion Energy Storage Battery Cells that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lithium-ion Energy Storage Battery Cells total production and demand, 2021-2032, (KWh)

Global Lithium-ion Energy Storage Battery Cells total production value, 2021-2032, (USD Million)

Global Lithium-ion Energy Storage Battery Cells production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)

Global Lithium-ion Energy Storage Battery Cells consumption by region & country, CAGR, 2021-2032 & (KWh)

U.S. VS China: Lithium-ion Energy Storage Battery Cells domestic production, consumption, key domestic manufacturers and share

Global Lithium-ion Energy Storage Battery Cells production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)

Global Lithium-ion Energy Storage Battery Cells production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

Global Lithium-ion Energy Storage Battery Cells production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global Lithium-ion Energy Storage Battery Cells market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Contemporary Amperex Technology Co., Limited, HiTHIUM, EVE Energy Co., Ltd., BYD Company Limited, CALB Group Co., Ltd., REPT BATTERO Energy Co., Ltd., Gotion High-tech Co., Ltd., Envision AESC, Guangzhou Great Power Energy & Technology Co., Ltd., Sunwoda Energy Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lithium-ion Energy Storage Battery Cells market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KWh) and average price (US\$/KWh) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Lithium-ion Energy Storage Battery Cells Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium-ion Energy Storage Battery Cells Market, Segmentation by Type:

Lithium Iron Phosphate Batteries

Ternary Lithium Batteries

Others

Global Lithium-ion Energy Storage Battery Cells Market, Segmentation by Cell Form:

Square Battery Cell

Cylindrical Battery Cell

Soft-pack Battery Cell

Global Lithium-ion Energy Storage Battery Cells Market, Segmentation by Rated Capacity:

Below 100Ah

100?200Ah

200?300Ah

Above 300Ah

Global Lithium-ion Energy Storage Battery Cells Market, Segmentation by Application:

Residential Energy Storage Cell

Commercial and Industrial Energy Storage Cell

Utility-scale Energy Storage Cell

Telecom Backup Energy Storage Cell

UPS and Data Center Energy Storage Cell

Other Energy Storage Cell

Companies Profiled:

Contemporary Amperex Technology Co., Limited

HiTHIUM

EVE Energy Co., Ltd.

BYD Company Limited

CALB Group Co., Ltd.

REPT BATTERO Energy Co., Ltd.

Gotion High-tech Co., Ltd.

Envision AESC

Guangzhou Great Power Energy & Technology Co., Ltd.

Sunwoda Energy Technology Co., Ltd.

Narada Power Source Co., Ltd.

Ganfeng LiEnergy Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Lithium-ion Energy Storage Battery Cells market?
2. What is the demand of the global Lithium-ion Energy Storage Battery Cells market?
3. What is the year over year growth of the global Lithium-ion Energy Storage Battery Cells market?
4. What is the production and production value of the global Lithium-ion Energy Storage Battery Cells market?
5. Who are the key producers in the global Lithium-ion Energy Storage Battery Cells market?
6. What are the growth factors driving the market demand?

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