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# Global Lithium-ion Power Battery Cells for Electric Vehicles Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Lithium-ion Power Battery Cells for Electric Vehicles market size is expected to reach $ 309525 million by 2032, rising at a market growth of 12.3% CAGR during the forecast period (2026-2032).

Lithium-ion power battery cells for electric vehicles refer to the basic electrochemical units used in the power systems of electric vehicles, including battery electric vehicles, plug-in hybrid electric vehicles, range-extended electric vehicles, and hybrid electric vehicles, to store and release electrical energy. They are typically composed of a cathode, an anode, a separator, an electrolyte, and a casing, and operate through the intercalation and deintercalation of lithium ions between the cathode and anode during charging and discharging. As the core component of a power battery system, the energy density, power performance, cycle life, safety, fast-charging capability, and high- and low-temperature adaptability of the cells directly affect vehicle driving range, power performance, service life, and operational safety. In 2025, global output of lithium-ion power battery cells for electric vehicles reached 1,495.1 GWh, with an average selling price of US$79/kWh.

Lithium-ion power battery cells for electric vehicles sit in the midstream of the new energy value chain and serve as the core electrochemical units responsible for storing and releasing energy within EV battery systems. Upstream segments mainly include cathode materials, anode materials, separators, electrolyte materials, metal foils, structural components, and manufacturing equipment, while downstream segments include module and pack assemblers, vehicle OEMs, and recycling and second-life applications.

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From a regional perspective, global EV battery cell manufacturing and supply chains remain highly concentrated in Asia, especially in China. Among the world?s top ten EV battery suppliers in 2025, Chinese companies accounted for the majority, with CATL, BYD, CALB, Gotion, EVE Energy, and SVOLT all ranking among the leading players. CATL and BYD together held 55.6% of the global market, while the top ten suppliers collectively accounted for nearly 90% of total EV battery usage. China also maintains a dominant position in the LFP battery supply chain, and nearly all LFP batteries sold in Europe and the United States were produced in China.

In terms of product structure, EV battery cells can be segmented by chemistry into LFP, ternary, and other systems; by form factor into prismatic, cylindrical, and pouch cells; and by vehicle application into BEV, PHEV, EREV, and HEV. One of the clearest structural shifts in the market is the continuing rise of LFP. According to the IEA, LFP accounted for nearly half of the global EV battery market in 2024, close to three-quarters of demand in China, and around 80% of batteries sold in China at the end of 2024. At the same time, rapid growth in PHEV and EREV sales in China is reshaping battery demand, making cost, fast charging, durability, and cycle life as important as pure energy density.

From a manufacturing and cost standpoint, the EV battery cell industry is a capital-intensive advanced manufacturing sector with high requirements for consistency, yield, and process stability. Its core barriers lie in material systems, process know-how, yield ramp-up, customer qualification, and large-scale delivery capability. A typical production flow includes slurry mixing, coating, calendaring, slitting, winding or stacking, assembly, electrolyte filling, and formation and grading. Based on current mainstream projects, a standardized single cell production line typically delivers around 1?2 GWh of annual capacity, with about 1.6 GWh per cylindrical line serving as a useful benchmark, while total plant capacity is often built on 10 GWh, 20 GWh, 40 GWh, or even larger platforms. Profitability is clearly differentiated across the industry: leading companies benefit from scale, stronger customer portfolios, and technology premiums, with CATL reporting a 23.84% gross margin in its power battery system business in 2025, whereas some overseas leaders reported only mid-single-digit operating margins or even operating losses. As a result, the industry?s average gross margin is better understood as being in the low- to mid-teens range overall.

Overall, the lithium-ion power battery cell industry for electric vehicles has moved from a phase of aggressive capacity expansion into one of higher-quality competition. The next stage of competition will be driven less by simple scale growth and more by fast-charging capability, long cycle life, lower cost, low-temperature performance, safety,

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compatibility with CTP and CTC architectures, new chemistry readiness such as LMFP, high-nickel, and sodium-ion, and the ability to build resilient and localized global supply chains. As battery prices continue to decline and EV penetration rises across passenger cars, commercial vehicles, and emerging markets, the industry is expected to keep expanding, while competitive differentiation among suppliers will become even more pronounced.

This report studies the global Lithium-ion Power Battery Cells for Electric Vehicles production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium-ion Power Battery Cells for Electric Vehicles 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 Power Battery Cells for Electric Vehicles that contribute to its increasing demand across many markets.

**Highlights and key features of the study**
Global Lithium-ion Power Battery Cells for Electric Vehicles total production and demand, 2021-2032, (KWh)
Global Lithium-ion Power Battery Cells for Electric Vehicles total production value, 2021-2032, (USD Million)
Global Lithium-ion Power Battery Cells for Electric Vehicles production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)
Global Lithium-ion Power Battery Cells for Electric Vehicles consumption by region & country, CAGR, 2021-2032 & (KWh)
U.S. VS China: Lithium-ion Power Battery Cells for Electric Vehicles domestic production, consumption, key domestic manufacturers and share
Global Lithium-ion Power Battery Cells for Electric Vehicles production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)
Global Lithium-ion Power Battery Cells for Electric Vehicles production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KWh)
Global Lithium-ion Power Battery Cells for Electric Vehicles production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global Lithium-ion Power Battery Cells for Electric Vehicles market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key

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developments. Key companies covered as a part of this study include CATL, BYD, LG Energy Solution, CALB, Gotion High-tech, SK On, Panasonic, EVE Energy, Samsung SDI, SVOLT, 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 Power Battery Cells for Electric Vehicles 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 Power Battery Cells for Electric Vehicles Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium-ion Power Battery Cells for Electric Vehicles Market, Segmentation by Type:

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Lithium Iron Phosphate Batteries

Ternary Lithium Batteries

Others

Global Lithium-ion Power Battery Cells for Electric Vehicles Market, Segmentation by the Form of the Battery Cell:

Square Battery Cell

Cylindrical Battery Cell

Soft-pack Battery Cell

Global Lithium-ion Power Battery Cells for Electric Vehicles Market, Segmentation by Compatible Car Types:

Passenger Vehicle Battery Cells

Commercial Vehicle Battery Cells

Global Lithium-ion Power Battery Cells for Electric Vehicles Market, Segmentation by Application:

BEV

HEV and PHEV

Companies Profiled:

CATL

BYD

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LG Energy Solution

CALB

Gotion High-tech

SK On

Panasonic

EVE Energy

Samsung SDI

SVOLT

**Key Questions Answered:**

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

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## 5 MARKET ANALYSIS BY TYPE



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