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Global Automotive Battery Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Battery market size was valued at US$ 76050 million in 2025 and is forecast to a readjusted size of US$ 145925 million by 2032 with a CAGR of 9.8% during review period.

An Automotive Battery is a rechargeable electrochemical energy-storage device installed in a vehicle to provide engine starting, ignition, lighting, auxiliary electrical power, start-stop support, and, in hybrid or electric vehicles, traction energy for propulsion. In physical form, it is typically housed in a sealed polymer or metal enclosure and may be configured as an individual cell, module, or full battery pack. By chemistry, automotive batteries are mainly divided into lead-acid and lithium-ion systems. Lead-acid automotive batteries usually adopt a rectangular hard-case structure containing positive and negative plates, separators, electrolyte, busbars, and casing, with common categories including flooded, EFB, and AGM types for internal-combustion, start-stop, and commercial vehicle low-voltage applications. Lithium-ion automotive batteries consist of cathode, anode, separator, electrolyte, current collectors, and an integrated battery management system, with cylindrical, prismatic, or pouch cell formats, mainly serving HEV, PHEV, and BEV platforms. Their essential function is to store and release energy through reversible electrochemical reactions while ensuring safety, cycle life, and performance through thermal management and BMS control.

The Automotive Battery industry's most compelling opportunity no longer lies in its traditional role as a simple starting power source. It is increasingly being repositioned as the energy and electrical nerve center of modern vehicles. For automakers, batteries are evolving from standardized components into critical systems that determine start

reliability, electrical stability, smart load support, and, in electrified vehicles, driving range and safety performance. For investors and strategic participants across the value chain, this means value creation is shifting from manufacturing margin alone toward higher-value activities such as materials optimization, system integration, thermal management, battery management software, recycling, and global supply coordination. The International Energy Agency notes that electric vehicles remain the primary engine of global battery demand growth, while changes in chemistry mix, including rising LFP adoption, are reshaping cost structures and competitive dynamics across the sector. At the same time, conventional 12V lead-acid batteries continue to retain resilient demand in the installed base of internal-combustion vehicles, start-stop applications, and the replacement market. This creates a rare combination of growth upside and defensive cash-flow stability. For decision-makers evaluating investment, localization, or policy relevance, automotive batteries should be understood not as an isolated product category, but as a strategic hub linking upstream minerals and chemicals, midstream manufacturing and equipment, and downstream vehicle and energy-service ecosystems.

That said, this is not a linear-growth industry. It is a capital-intensive, technology-intensive, and safety-critical business in which upside must be weighed against structural risk. Raw material volatility, geopolitics, trade restrictions, and security of supply for critical minerals will continue to shape cost pass-through capacity and global footprint decisions. In addition, battery competition is not decided solely by energy density or cold-cranking performance. It is increasingly defined by manufacturing consistency, degradation control, thermal runaway protection, fast-charging compatibility, environmental durability, and recycling capability. Many firms may possess production lines, yet far fewer have the systems engineering discipline required for scalable, high-reliability delivery. Competitive pressure is also moving beyond price into platform-based rivalry, where leading players deepen customer lock-in through co-development with OEMs, certification control, and aftermarket reach. In low-voltage lead-acid segments, replacement demand remains durable, but commoditization, channel pressure, and regional brand fragmentation can erode profitability. From a policy perspective, environmental compliance, transport safety, carbon disclosure, and extended producer responsibility are becoming decisive filters. The likely winners will not simply be the fastest capacity expanders, but the companies able to close the loop across technology, quality, certification, service, and recycling.

Downstream demand is now entering a visible phase of dual upgrading. On one side, internal-combustion and hybrid vehicles are placing higher requirements on low-voltage batteries as onboard electrical architectures become more complex. Start-stop systems,

brake-by-wire and steer-by-wire functions, ADAS, cockpit electronics, and auxiliary loads are pushing demand away from standard flooded batteries toward EFB, AGM, and other higher-reliability solutions. Buyers are becoming less price-only and more focused on cold-weather performance, cycle life, stable power delivery, and maintenance convenience. On the other side, battery-electric and hybrid platforms are shifting demand from the question of battery installation to the question of how to achieve safer operation, faster charging, longer service life, and lower total life-cycle cost. This elevates battery suppliers from component vendors to co-creators of vehicle performance. The most attractive future demand will not come only from vehicle production volumes themselves, but also from adjacent service layers including battery replacement, diagnostics, second-life use, used-vehicle valuation, vehicle-to-grid applications, and battery asset operations. In practical terms, downstream customers are no longer buying only a battery; they are buying an integrated promise of reliability, safety, energy efficiency, and lifecycle value. The companies that understand this shift earliest will be best positioned to lead global competition.

This report is a detailed and comprehensive analysis for global Automotive Battery market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive Battery market size and forecasts, in consumption value ($ Million), sales quantity (MW), and average selling prices (US$/KW), 2021-2032

Global Automotive Battery market size and forecasts by region and country, in consumption value ($ Million), sales quantity (MW), and average selling prices (US$/KW), 2021-2032

Global Automotive Battery market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (MW), and average selling prices (US$/KW), 2021-2032

Global Automotive Battery market shares of main players, shipments in revenue ($ Million), sales quantity (MW), and ASP (US$/KW), 2021-2026

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The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Battery

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Battery market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BYD, CATL, LG Energy Solution, Panasonic Energy, Samsung SDI, Ford, Clarios, SK On, GS Yuasa, Exide Industries, etc.

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

Market Segmentation

Automotive Battery market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Nickel-cadmium Batteries

NiMH Batteries

Lithium Ion Battery

Lead-Acid Battery

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Market segment by Nominal Voltage Level

- 6V Battery
- 12V Battery
- 24V Battery
- 48V Battery
- High-Voltage Battery System

Market segment by Physical Package Format

- Cylindrical Battery
- Prismatic Battery
- Pouch Battery
- Monobloc Battery

Market segment by Electrolyte Form

- Liquid Electrolyte Battery
- Absorbed Electrolyte Battery
- Gel Electrolyte Battery
- Semi-Solid Electrolyte Battery
- Solid-State Battery

Market segment by Application

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Passenger Car

Commercial Vehicle

Others

Major players covered

BYD

CATL

LG Energy Solution

Panasonic Energy

Samsung SDI

Ford

Clarios

SK On

GS Yuasa

Exide Industries

East Penn

Amara Raja Energy & Mobility

Exide Technologies

Sebang Global Battery

Camel Group

Leoch International

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Battery, with price, sales quantity, revenue, and global market share of Automotive Battery from 2021 to 2026.

Chapter 3, the Automotive Battery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Automotive Battery market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Battery.

Chapter 14 and 15, to describe Automotive Battery sales channel, distributors, customers, research findings and conclusion.

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