

Global Automotive Battery Market Size Study, by Type, Drive (ICE, Electric Vehicle), Vehicle (Passenger Cars, Commercial Vehicles, Others), and Regional Forecasts 2022-2032

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Abstracts

The Global Automotive Battery Market was valued at approximately USD 69.11 billion in 2023 and is projected to expand at a CAGR of 6.4% from 2024 to 2032. The surging demand for electric vehicles (EVs), advancements in battery technologies, and government policies promoting sustainable energy adoption are driving significant growth in the industry. As automakers strive to enhance vehicle efficiency, reduce carbon emissions, and comply with stringent environmental regulations, the demand for high-performance batteries is escalating. Additionally, the rapid electrification of public and private transport fleets, coupled with breakthroughs in lithium-ion and solid-state battery technologies, is revolutionizing the automotive battery landscape.

The increasing production and adoption of electric vehicles (EVs) worldwide are reshaping the dynamics of the automotive battery market. With leading automakers investing billions in battery research and the expansion of EV manufacturing facilities, the industry is experiencing unprecedented growth. The market is also benefiting from innovations in fast-charging solutions, battery recycling, and second-life applications, which are crucial for enhancing battery efficiency and sustainability. However, challenges such as high battery production costs, supply chain disruptions, and concerns regarding raw material availability (especially lithium, cobalt, and nickel) could hinder market expansion in the long run.

The rise of next-generation batteries, including solid-state, graphene-based, and sodium-ion batteries, is anticipated to provide lucrative growth opportunities. The demand for higher energy density, longer lifespan, and improved thermal management is prompting

battery manufacturers to innovate and optimize production processes. Furthermore, government incentives, subsidies, and tax credits for electric vehicle buyers and battery manufacturers are fostering growth, particularly in developed economies.

North America is poised to remain a dominant force in the automotive battery market, fueled by strong EV sales, regulatory mandates on fuel efficiency, and heavy investments in battery manufacturing infrastructure. Meanwhile, Europe is witnessing rapid expansion due to stringent CO2 emission regulations, ambitious electrification goals, and strategic investments in gigafactories by companies such as Northvolt and CATL. The Asia-Pacific region is expected to be the fastest-growing market, driven by China's dominance in battery production, India's EV push, and the region's well-established supply chain for lithium-ion batteries. Government-backed initiatives such as China's New Energy Vehicle (NEV) policy and India's Faster Adoption and Manufacturing of Electric Vehicles (FAME) program are further propelling market growth in the region.

Major Market Players Included in This Report:

Panasonic Corporation

LG Energy Solution

Contemporary Amperex Technology Co., Ltd. (CATL)

Samsung SDI Co., Ltd.

BYD Company Ltd.

Tesla, Inc.

Johnson Controls International PLC

GS Yuasa Corporation

A123 Systems LLC

Exide Technologies

Clarios

East Penn Manufacturing Co.

Amara Raja Batteries Ltd.

Hitachi Chemical Co., Ltd.

Northvolt AB

The Detailed Segments and Sub-Segments of the Market Are Explained Below:

By Type:

Lithium-Ion Batteries

Lead-Acid Batteries

Nickel-Metal Hydride Batteries

Solid-State Batteries

By Drive:

Internal Combustion Engine (ICE) Vehicles

Electric Vehicles (EVs)

By Vehicle:

Passenger Cars

Commercial Vehicles

Others

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe (RoE)

Asia Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia Pacific (RoAPAC)

Latin America:

Brazil

Mexico

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa (RoMEA)

Years Considered for the Study:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024 to 2032

Key Takeaways:

Market Estimates & Forecasts spanning 10 years (2022-2032)

Annual revenue insights at both global and regional levels

Competitive landscape analysis with key market players and business strategies

Comprehensive geographical analysis with country-specific insights

Future market trends and opportunities for stakeholders

Comprehensive demand-side and supply-side market dynamics analysis

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