

Motorcycle Battery Market Poised to Reach USD 3.0 Billion by 2034, Driven by Electrification and Sustainable Mobility

Motorcycle Battery Market to grow from USD 1.8B in 2024 to USD 3.0B by 2034, driven by EV adoption, lithium-ion demand, and sustainability trends.

VANCOUVER, BC, CANADA, August 19, 2025 /EINPresswire.com/ -- The global [Motorcycle Battery Market](#) is set for steady growth, projected to expand from USD 1.8 billion in 2024 to USD 3.0

billion by 2034, reflecting a CAGR of 5.20%, according to the latest industry analysis. Rising demand for electric motorcycles, government initiatives to cut carbon emissions, and ongoing advances in battery technology are key drivers fueling this growth.



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Lithium-ion Batteries Lead the Market

Lithium-ion batteries are expected to dominate the market due to their superior energy density, longer lifespan, and efficiency compared to traditional lead-acid batteries. These features make them the preferred choice for both traditional motorcycles and the fast-growing electric motorcycle segment.

Electric Motorcycle Batteries: The Fastest-Growing Segment

The fastest expansion will come from electric motorcycle batteries, boosted by the growing adoption of electric two-wheelers worldwide. Supportive government policies, subsidies, and investments in EV infrastructure are further encouraging consumers to shift toward electric mobility.

According to McKinsey & Company, the global electric motorcycle market is forecasted to grow by 35% annually, underscoring the rising need for advanced and reliable battery solutions.

Market Drivers: Electrification and Sustainability

The dual engines of electrification and sustainability are shaping the future of the motorcycle

battery industry.

Government push for clean energy: Initiatives like the European Union's Green Deal, targeting a 55% emission reduction by 2030, and the U.S. Infrastructure Investment and Jobs Act, allocating \$7.5 billion for EV charging networks, are fueling battery demand.

Urban mobility needs: Growing urbanization and congestion in cities are pushing commuters toward two-wheel electric vehicles as affordable and eco-friendly transport options.

Product innovation: Companies like Panasonic are introducing new lithium-ion batteries for electric motorcycles, delivering a 30% increase in energy density and 20% faster charging times, directly addressing consumer concerns about range and charging convenience.

Motorcycle Battery Competitive Strategies & Notable Developments

Top 10 Companies

GS Yuasa Corporation: A leading player in the market, GS Yuasa Corporation holds a significant market share due to its extensive product portfolio and strong distribution network. The company is investing in R&D to enhance battery performance and sustainability.

Exide Technologies: Exide Technologies is a major player in the market, known for its innovative battery solutions and strong presence in North America and Europe. The company is focusing on expanding its product portfolio and strengthening its distribution network.

Panasonic Corporation: Panasonic Corporation is a leading player in the market, known for its advanced battery technologies and strong presence in Asia Pacific. The company is investing in R&D to enhance battery performance and sustainability.

Amara Raja Batteries: Amara Raja Batteries is a major player in the market, known for its innovative battery solutions and strong presence in Asia Pacific. The company is focusing on expanding its product portfolio and strengthening its distribution network.

Exide Industries: Exide Industries is a leading player in the market, known for its extensive product portfolio and strong distribution network. The company is investing in R&D to enhance battery performance and sustainability.

EnerSys: EnerSys is a major player in the market, known for its innovative battery solutions and strong presence in North America and Europe. The company is focusing on expanding its product portfolio and strengthening its distribution network.

Johnson Controls: Johnson Controls is a leading player in the market, known for its advanced battery technologies and strong presence in North America and Europe. The company is investing in R&D to enhance battery performance and sustainability.

East Penn Manufacturing: East Penn Manufacturing is a major player in the market, known for its innovative battery solutions and strong presence in North America. The company is focusing on

expanding its product portfolio and strengthening its distribution network.

C&D Technologies: C&D Technologies is a leading player in the market, known for its extensive product portfolio and strong distribution network. The company is investing in R&D to enhance battery performance and sustainability.

Leoch International Technology: Leoch International Technology is a major player in the market, known for its innovative battery solutions and strong presence in Asia Pacific. The company is focusing on expanding its product portfolio and strengthening its distribution network.

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Market Restraints: Regulation, Costs, and Infrastructure Gaps

Despite the positive outlook, the market faces some challenges:

Regulatory hurdles: In Europe, the Battery Directive sets strict recycling and disposal rules, adding an estimated 15% to production costs of lithium-ion batteries.

High R&D costs: While solid-state and graphene batteries promise better performance, their production costs are still about 30% higher than conventional lithium-ion alternatives, slowing widespread adoption.

Charging infrastructure gaps: Unlike electric cars, motorcycles often lack compatible charging networks, limiting convenience for users in some regions.

Raw material supply risks: Global demand for lithium and cobalt is expected to outpace supply by 2030, leading to possible shortages and price fluctuations. The International Energy Agency projects lithium demand to grow by 40% annually, while supply increases only 25%, creating a potential bottleneck for manufacturers.

Regional Outlook:

Asia Pacific Takes the Lead

The Asia Pacific region is expected to remain the market leader, driven by rapid urbanization, rising middle-class incomes, and strong government support for EV adoption. Countries like China and India are at the forefront, with policies encouraging cleaner mobility solutions and infrastructure development.

Key Trends Shaping the Market

Solid-state battery development: Offering higher energy density and enhanced safety, solid-state technology is emerging as a promising solution.

Use of recycled materials: Manufacturers are turning to recycled inputs to reduce costs, with expectations of cutting production costs by 10% by 2025.

Integration of smart systems: Battery management systems that connect with onboard vehicle

systems are improving performance, safety, and longevity.

The report bifurcates the Motorcycle Battery market on the basis of different product types, applications, end-user industries, and key regions of the world where the market has already established its presence. The report accurately offers insights into the supply-demand ratio and production and consumption volume of each segment.

Motorcycle Battery Market Segmentation

By Product Type

Lithium-ion Batteries

Lead-acid Batteries

Nickel-metal Hydride Batteries

Solid-state Batteries

By Application

Electric Motorcycles

Conventional Motorcycles

Scooters

Off-road Motorcycles

By End User

OEMs (Original Equipment Manufacturers)

Aftermarket

By Technology

Smart Battery Management Systems

Conventional Battery Systems

By Distribution Channel

Online Retail

Offline Retail

Leading Players

Major players in the market include GS Yuasa Corporation, Exide Technologies, and Panasonic Corporation. These companies are investing heavily in research and development to deliver more efficient, eco-friendly, and affordable battery solutions.

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