

Global E-Motorcycle Battery Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GE9A5CB46E8DEN.html>

Date: February 2026

Pages: 213

Price: US\$ 4,480.00 (Single User License)

ID: GE9A5CB46E8DEN

Abstracts

The global E-Motorcycle Battery market size is expected to reach \$ 24037 million by 2032, rising at a market growth of 9.6% CAGR during the forecast period (2026-2032). Electric motorcycle batteries are lightweight, high-rate power batteries specifically designed for the power systems of electric motorcycles. They mainly adopt the lithium-ion chemical system and are integrated through series and parallel connection of cells, along with a battery management system (BMS) and heat dissipation structure. They have the characteristics of instantaneous high current discharge, small size, light weight, and long cycle life. They can directly provide power to the motor and are the key energy storage components for electric motorcycles to achieve core performance such as range, hill climbing, and acceleration.

In 2025, the global production of electric motorcycle batteries was 49.8 million units, with an average price of US\$243 per unit.

Upstream of e-motorcycle batteries mainly includes cathode and anode materials, electrolytes, separators, cylindrical or prismatic cell components, BMS parts, and basic metal and chemical inputs, with strong requirements for cost control, energy density, and safety consistency. Downstream represents the core of demand and value, serving electric motorcycle OEMs, battery swapping operators, shared mobility platforms, and the aftermarket replacement sector. End applications focus on urban commuting, food delivery and instant logistics, shared two-wheelers, and personal mobility. Downstream customers emphasize range, weight and size, charging safety, fast-charging or swapping compatibility, temperature adaptability, and battery lifespan, while remaining highly price-sensitive with clear tendencies toward large-volume and platform-based procurement. Industry trends show parallel development of LFP and cost-efficient ternary chemistries, with batteries evolving toward lighter weight, smaller size, and higher energy density. Battery swapping standardization, modular designs, and smarter BMS functions are becoming key directions. Major drivers include rapid electrification of

urban two-wheel transport, growth in delivery and instant logistics, tighter restrictions on fuel motorcycles, and consumer preference for low operating cost mobility. Key constraints include stricter safety regulations, intense price competition compressing margins, volatility in raw material prices, and quality and warranty risks in the low-end market. Overall gross margins for e-motorcycle batteries are moderate to relatively low, typically ranging from 15% to 30%. Manufacturers with scale advantages, stable customer channels, deep integration with OEMs or swapping platforms, and strong cost management achieve higher margins, while suppliers competing mainly in highly commoditized segments face more volatile profitability.

This report studies the global E-Motorcycle Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for E-Motorcycle Battery 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 E-Motorcycle Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global E-Motorcycle Battery total production and demand, 2021-2032, (K Units)

Global E-Motorcycle Battery total production value, 2021-2032, (USD Million)

Global E-Motorcycle Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global E-Motorcycle Battery consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: E-Motorcycle Battery domestic production, consumption, key domestic manufacturers and share

Global E-Motorcycle Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global E-Motorcycle Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global E-Motorcycle Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global E-Motorcycle Battery 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 CATL, BYD, CALB, Gotion High-Tech, EVE Energy Co., Ltd., REPT BATTERO, Sunwoda, SVOLT Energy, Xingheng Power Co., Ltd. (Phylion), Tianneng Battery Group, 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 E-Motorcycle Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 E-Motorcycle Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global E-Motorcycle Battery Market, Segmentation by Type:

Lithium Iron Phosphate Battery

Ternary Lithium Battery

Lithium Titanate Battery

Lithium Manganese Oxide Battery

Others

Global E-Motorcycle Battery Market, Segmentation by Structure:

Square Aluminum-Cased Batteries

Cylindrical Batteries

Pouch Batteries

Global E-Motorcycle Battery Market, Segmentation by Installation Method:

Built-in Battery

External Battery

Removable Battery

Global E-Motorcycle Battery Market, Segmentation by Charge/Discharge Rate:

3C and Above

1-2C

Global E-Motorcycle Battery Market, Segmentation by Application:

Civilian Electric Motorcycles

Off-Road and Racing Electric Motorcycles

Shared Electric Motorcycles

Specialty Electric Motorcycles

Companies Profiled:

CATL

BYD

CALB

Gotion High-Tech

EVE Energy Co., Ltd.

REPT BATTERO

Sunwoda

SVOLT Energy

Xingheng Power Co., Ltd. (Phylion)

Tianneng Battery Group

Chilwee Group (Chaowei Power)

Farasis Energy

Shenzhen BAK Battery Co., Ltd.

Amperex Technology Limited (ATL)

Ampace Technology Limited

LG Energy Solution

Samsung SDI

Panasonic Energy Co., Ltd.

GS YUASA

BMZ Group

Forsee Power

Microvast

Shorai

Exide Technologies

Toshiba

BorgWarner

Gogoro

Honda Motor Co., Ltd.

KYMCO

SUN Mobility

Tata AutoComp Systems Limited

Amara Raja Energy & Mobility

Key Questions Answered:

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

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