

# Global Electric Bike Li-Ion Battery Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Electric Bike Li-Ion Battery market size is expected to reach \$ 23011 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

Electric bike Li-ion batteries are lightweight power storage devices specifically designed for electric bicycle drive systems. They feature high energy density, long cycle life, lightweight design, and strong fast-charging adaptability. They can directly replace traditional lead-acid batteries and are the core components supporting the range and power performance of electric bicycles.

In 2025, the global production of electric bike Li-ion batteries was 56 million units, with an average price of US\$230 per unit.

Upstream of electric bike Li-ion batteries mainly includes cathode and anode materials, electrolytes, separators, aluminum-plastic films, cell casings, and basic chemical and metal resources, with LFP and ternary chemistries as the dominant technology routes. Downstream applications represent the core demand, focusing on electric bicycle OEMs, shared e-bike operators, last-mile delivery and food courier fleets, individual commuters, and the replacement market. End users place strong emphasis on safety, cycle life, energy density, fast-charging capability, and consistency, while regulations and vehicle certification significantly influence purchasing decisions. Price sensitivity remains high, but acceptance of reliable brands is increasing.

Industry development trends emphasize safety alongside performance optimization, with batteries evolving toward longer cycle life, improved thermal stability, and lighter designs. Battery management systems are becoming standard, while battery swapping models and standardized packs are expanding in selected markets. Key growth drivers include rising urban short-distance mobility demand, expansion of the on-demand delivery sector, substitution of fuel-powered two-wheelers, supportive government policies, and growing consumer awareness of range and safety. Major constraints

include cost pressure from raw material price volatility, stricter regulations triggered by safety incidents, intense market competition leading to price erosion, and fragmented regional standards that increase adaptation complexity.

Overall gross margins for electric bike Li-ion batteries are relatively low to mid-range, typically between 15% and 30%. Companies with large-scale manufacturing, stable supply chains, and in-house cell or BMS capabilities achieve higher margins, while OEM-focused and standardized battery pack suppliers face more margin pressure. This report studies the global Electric Bike Li-Ion Battery production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Electric Bike Li-Ion Battery total production and demand, 2021-2032, (K Units)

Global Electric Bike Li-Ion Battery total production value, 2021-2032, (USD Million)

Global Electric Bike Li-Ion Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Electric Bike Li-Ion Battery consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Electric Bike Li-Ion Battery domestic production, consumption, key domestic manufacturers and share

Global Electric Bike Li-Ion Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Electric Bike Li-Ion Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Electric Bike Li-Ion Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Electric Bike Li-Ion 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 Bosch eBike, Shimano, Yamaha Motor, Brose SE, Bafang Electric (Suzhou), TranzX (JD Group), Mahle GmbH (MAHLE SmartBike Systems), FAZUA, SRAM LLC, Pendix, 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 Electric Bike Li-Ion 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 Electric Bike Li-Ion Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric Bike Li-Ion Battery Market, Segmentation by Type:

Lithium Iron Phosphate (LFP) Batteries

Ternary Lithium (NMC/NCA) Batteries

Lithium Manganese Oxide (LMO) Batteries

Composite Cathode Materials Batteries

Global Electric Bike Li-Ion Battery Market, Segmentation by Structure:

Square Aluminum-Cased Batteries

Cylindrical Batteries

Pouch Batteries

Global Electric Bike Li-Ion Battery Market, Segmentation by Installation Method:

Built-in Type

External Type

Removable Type

Global Electric Bike Li-Ion Battery Market, Segmentation by Voltage:

36V

48V

60V and Above

Global Electric Bike Li-Ion Battery Market, Segmentation by Application:

Civilian Electric Bike

Mountain Electric Bike

Freight Electric Bike

Shared Electric Bike

**Companies Profiled:**

Bosch eBike

Shimano

Yamaha Motor

Brose SE

Bafang Electric (Suzhou)

TranzX (JD Group)

Mahle GmbH (MAHLE SmartBike Systems)

FAZUA

SRAM LLC

Pendix

Zehus

Specialized Bicycle Components

Giant Manufacturing

BMZ Group

Phylion Battery

Simplo Technology

Darfon Energy Technology

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Greenway Battery

EVE Energy

Samsung SDI

LG Energy Solution

Murata Manufacturing

Panasonic Corporation

Chilwee Group

Tianneng Battery Group

Chaowei Power Holdings Limited

Shenzhen BAK Battery

CATL

**Key Questions Answered:**

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

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