

Global Electric Bike NMC Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric Bike NMC Battery market size is expected to reach \$ 11868 million by 2032, rising at a market growth of 12.0% CAGR during the forecast period (2026-2032).

Electric bike NMC batteries refer to lithium-ion batteries that use nickel-manganese-cobalt ternary composite oxide (LiNi_xMn_yCo_{1-x-y}O₂, abbreviated as NMC) as the positive electrode material, graphite as the negative electrode material, and organic electrolyte as the ion conduction medium. They are specifically designed to meet the power system requirements of electric bicycles and can satisfy the power needs of electric bicycles for climbing, acceleration, etc. Compared with lithium iron phosphate batteries, NMC batteries have better low-temperature performance and smaller size, making them more suitable for the compact installation space of electric bicycles. They are the mainstream energy storage power source for mid-to-high-end electric bicycles. In 2025, the global production of electric bike NMC batteries was 23.8 million units, with an average price of \$220 per unit.

Upstream of electric bike NMC batteries mainly includes nickel manganese cobalt oxide cathode materials, graphite anodes, electrolytes, separators, copper and aluminum foils, as well as basic electronic and structural components for cells and packs.

Downstream applications are concentrated in mid-to-high-end electric bikes, pedelecs, and selected high-performance shared mobility products. End users place strong emphasis on energy density, riding range, weight reduction, power performance, and safety consistency. NMC batteries are favored in performance-oriented models due to their balance of range and compact size, while penetration remains limited in entry-level, cost-sensitive segments.

Industry trends point toward higher nickel content, lighter battery systems, and increased system-level integration, alongside continuous improvements in battery management systems and thermal control. Key drivers include growing demand for

premium electric bikes, upgrades in urban commuting and recreational cycling, and consumer preference for longer range and lighter vehicles. Major constraints include higher costs compared with LFP and lead-acid batteries, stricter requirements for safety design and manufacturing consistency, and tighter regulatory standards for battery safety and transportation in some regions.

Gross margins for electric bike NMC batteries are generally moderate, typically ranging from 20% to 35%. Manufacturers with secure cathode material supply, large-scale cell production, and strong partnerships with bike OEMs achieve higher margins, while smaller players face tighter profitability due to raw material price volatility and intensified competition.

This report studies the global Electric Bike NMC Battery production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Electric Bike NMC 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, Shimano, Yamaha Motor, BMZ Group, Tritex, Phylion (Joycube), Darfon, Bafang, Giant, Panasonic, 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 NMC 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 NMC Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric Bike NMC Battery Market, Segmentation by Type:

NCM523 Battery

NCM622 Battery

NCM811 Battery

Global Electric Bike NMC Battery Market, Segmentation by Form:

Cylindrical Battery

Pouch Battery

Square Aluminum Shell Battery

Global Electric Bike NMC Battery Market, Segmentation by Voltage:

36V

48V

60V

72V

Global Electric Bike NMC Battery Market, Segmentation by Cycle Life:

800-1000 Cycles

1000-1500 Cycles

Others

Global Electric Bike NMC Battery Market, Segmentation by Application:

Urban Commuting Electric Bicycles

Off-Road Electric Bicycles

Shared Electric Bicycles

Others

Companies Profiled:

Bosch

Shimano

Yamaha Motor

BMZ Group

Tritek

Phyllion (Joycube)

Darfon

Bafang

Giant

Panasonic

Samsung SDI

LG Energy Solution

Molicel (E-One Moli Energy)

Brose

FAZUA

TQ

MAHLE SmartBike Systems

Key Questions Answered:

1. How big is the global Electric Bike NMC Battery market?
2. What is the demand of the global Electric Bike NMC Battery market?
3. What is the year over year growth of the global Electric Bike NMC Battery market?

4. What is the production and production value of the global Electric Bike NMC Battery market?
5. Who are the key producers in the global Electric Bike NMC Battery market?
6. What are the growth factors driving the market demand?

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