

Global New Energy Vehicle Power Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global New Energy Vehicle Power Battery market size is expected to reach \$ 538469 million by 2032, rising at a market growth of 16.4% CAGR during the forecast period (2026-2032).

New energy vehicle power batteries are core energy storage components that provide driving energy for new energy vehicles such as pure electric vehicles, plug-in hybrid electric vehicles, range-extended electric vehicles, and fuel cell vehicles. Their main function is to store electrical energy and output power to the motor, directly affecting the vehicle's range, charging speed, safety, lifespan, and overall vehicle cost. Currently, the mainstream new energy vehicle power batteries are mainly lithium iron phosphate batteries and ternary lithium batteries, with packaging forms including square, cylindrical, and pouch cells, and applications covering electrification scenarios such as passenger cars and commercial vehicles. In 2025, global power battery shipments reached 1495.1 GWh, with approximately 1,187 GWh installed in vehicles.

The global new energy vehicle power battery market is currently experiencing rapid expansion and structural upgrading. The increasing penetration rate of new energy vehicles, the accelerated electrification of vehicle platforms, the promotion of fast charging technology, and the continued implementation of carbon neutrality policies in various countries are all driving sustained high demand for power batteries. Power batteries are no longer just a single segment of the automotive parts market, but a key strategic link in the new energy vehicle industry chain, energy transition system, and global manufacturing competition. Their market size, technological routes, and supply chain layout are profoundly impacting the global automotive industry landscape.

From the demand side, pure electric vehicles, plug-in hybrid electric vehicles, range-

extended electric vehicles, electric commercial vehicles, and electric special-purpose vehicles continue to see significant volume growth, representing the main drivers of power battery installation growth. The passenger vehicle market remains the core of demand, while the electrification of commercial vehicles, buses, logistics vehicles, and heavy trucks is also accelerating. At the same time, consumers' demands for driving range, charging speed, safety, and operating costs are constantly increasing, prompting OEMs to accelerate the adoption of high-energy-density, long-life, fast-charging, and high-safety battery solutions. Power batteries are becoming a crucial indicator of automakers' product competitiveness, platform development capabilities, and cost control capabilities.

From a product structure perspective, lithium iron phosphate batteries, with their advantages in cost, safety, and cycle life, continue to increase their market share in low-to-mid-range passenger vehicles, commercial vehicles, and some high-performance models. Ternary lithium batteries still maintain an important position in high-range, high-energy-density, and high-end models. Square, cylindrical, and pouch battery technologies coexist, and advancements continue in technologies such as blade batteries, short-blade batteries, large cylindrical batteries, CTP, CTC, high-voltage fast-charging batteries, and semi-solid-state and solid-state batteries. Future market competition will shift from simple capacity expansion to competition based on system integration capabilities, fast-charging performance, safety redundancy, low-temperature performance, and total lifecycle cost.

In terms of the industry chain, the power battery market is highly correlated with upstream materials such as lithium, nickel, cobalt, manganese, iron, phosphorus, graphite, electrolytes, separators, copper foil, and aluminum foil. Fluctuations in raw material prices, resource acquisition capabilities, and supply chain security directly impact corporate profitability. Midstream battery cell, module, battery pack, BMS, and thermal management system companies are accelerating large-scale manufacturing and platform-based product development; downstream OEMs are strengthening supply chain control through long-term supply agreements, joint ventures, self-developed batteries, and vertical integration. Battery recycling, secondary use, and closed-loop materials will also become important sources of future industry chain profits and competitive advantages.

From a regional market perspective, China maintains a leading advantage in the global new energy vehicle power battery market thanks to its complete material, cell, equipment, and vehicle industry chain. Europe and North America are accelerating the construction of local battery production capacity to support the development of their

local new energy vehicle industries and reduce supply chain dependence. Japanese and South Korean companies, relying on their technological accumulation, quality management, and international customer support capabilities, still occupy an important position in the global market. With the rise of the new energy vehicle industry, India, Southeast Asia, Latin America, and the Middle East will also become new growth areas for power battery companies' global expansion.

Looking ahead, the new energy vehicle power battery market will maintain high growth potential, but industry competition will intensify. Capacity cycles, price competition, technological shifts, safety regulations, trade policies, and raw material supply will all affect company performance. Companies with advantages in scale, customer resources, technological iteration capabilities, global manufacturing layout, and recycling system construction will be in a more advantageous position in future competition.

This report studies the global New Energy Vehicle Power Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for New Energy Vehicle Power 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 New Energy Vehicle Power Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global New Energy Vehicle Power Battery total production and demand, 2021-2032, (KWh)

Global New Energy Vehicle Power Battery total production value, 2021-2032, (USD Million)

Global New Energy Vehicle Power Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)

Global New Energy Vehicle Power Battery consumption by region & country, CAGR, 2021-2032 & (KWh)

U.S. VS China: New Energy Vehicle Power Battery domestic production, consumption, key domestic manufacturers and share

Global New Energy Vehicle Power Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)

Global New Energy Vehicle Power Battery production by Type, production, value,

CAGR, 2021-2032, (USD Million) & (KWh)

Global New Energy Vehicle Power Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global New Energy Vehicle Power 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, LG Energy Solution, Panasonic, Samsung SDI, SK On, Guoxuan High-tech, CALB Group, EVE Energy, Sunwoda, 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 New Energy Vehicle Power Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KWh) and average price (US\$/KWh) 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 New Energy Vehicle Power Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global New Energy Vehicle Power Battery Market, Segmentation by Type:

LFP Battery

NCx Batteries

Others

Global New Energy Vehicle Power Battery Market, Segmentation by Form:

Cylindrical Battery

Primitive Battery

Pouch Battery

Global New Energy Vehicle Power Battery Market, Segmentation by Charge Rate:

2C Fast Charging Battery

4C Fast Charging Battery

5C+ Ultra-fast Charging Battery

Global New Energy Vehicle Power Battery Market, Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

Companies Profiled:

CATL

BYD

LG Energy Solution

Panasonic

Samsung SDI

SK On

Guoxuan High-tech

CALB Group

EVE Energy

Sunwoda

Farasis Energy

SVOLT Energy Technology

REPT BATTERO Energy

Tianjin EV Energies

Do-Fluoride New Materials

Inpai Battery

Cornex New Energy

Key Questions Answered:

1. How big is the global New Energy Vehicle Power Battery market?

2. What is the demand of the global New Energy Vehicle Power Battery market?
3. What is the year over year growth of the global New Energy Vehicle Power Battery market?
4. What is the production and production value of the global New Energy Vehicle Power Battery market?
5. Who are the key producers in the global New Energy Vehicle Power Battery market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

1.1 New Energy Vehicle Power Battery Introduction

1.2 World New Energy Vehicle Power Battery Supply & Forecast

1.2.1 World New Energy Vehicle Power Battery Production Value (2021 & 2025 & 2032)

1.2.2 World New Energy Vehicle Power Battery Production (2021-2032)

1.2.3 World New Energy Vehicle Power Battery Pricing Trends (2021-2032)

1.3 World New Energy Vehicle Power Battery Production by Region (Based on Production Site)

1.3.1 World New Energy Vehicle Power Battery Production Value by Region (2021-2032)

1.3.2 World New Energy Vehicle Power Battery Production by Region (2021-2032)

1.3.3 World New Energy Vehicle Power Battery Average Price by Region (2021-2032)

1.3.4 North America New Energy Vehicle Power Battery Production (2021-2032)

1.3.5 Europe New Energy Vehicle Power Battery Production (2021-2032)

1.3.6 China New Energy Vehicle Power Battery Production (2021-2032)

1.3.7 Japan New Energy Vehicle Power Battery Production (2021-2032)

1.3.8 South Korea New Energy Vehicle Power Battery Production (2021-2032)

1.3.9 India New Energy Vehicle Power Battery Production (2021-2032)

1.4 Market Drivers, Restraints and Trends

1.4.1 New Energy Vehicle Power Battery Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 New Energy Vehicle Power Battery Major Market Trends

2 DEMAND SUMMARY

2.1 World New Energy Vehicle Power Battery Demand (2021-2032)

2.2 World New Energy Vehicle Power Battery Consumption by Region

2.2.1 World New Energy Vehicle Power Battery Consumption by Region (2021-2026)

2.2.2 World New Energy Vehicle Power Battery Consumption Forecast by Region (2027-2032)

2.3 United States New Energy Vehicle Power Battery Consumption (2021-2032)

2.4 China New Energy Vehicle Power Battery Consumption (2021-2032)

2.5 Europe New Energy Vehicle Power Battery Consumption (2021-2032)

2.6 Japan New Energy Vehicle Power Battery Consumption (2021-2032)

2.7 South Korea New Energy Vehicle Power Battery Consumption (2021-2032)

2.8 ASEAN New Energy Vehicle Power Battery Consumption (2021-2032)

2.9 India New Energy Vehicle Power Battery Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World New Energy Vehicle Power Battery Production Value by Manufacturer (2021-2026)

3.2 World New Energy Vehicle Power Battery Production by Manufacturer (2021-2026)

3.3 World New Energy Vehicle Power Battery Average Price by Manufacturer (2021-2026)

3.4 New Energy Vehicle Power Battery Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global New Energy Vehicle Power Battery Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for New Energy Vehicle Power Battery in 2025

3.5.3 Global Concentration Ratios (CR8) for New Energy Vehicle Power Battery in 2025

3.6 New Energy Vehicle Power Battery Market: Overall Company Footprint Analysis

3.6.1 New Energy Vehicle Power Battery Market: Region Footprint

3.6.2 New Energy Vehicle Power Battery Market: Company Product Type Footprint

3.6.3 New Energy Vehicle Power Battery Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: New Energy Vehicle Power Battery Production Value Comparison

4.1.1 United States VS China: New Energy Vehicle Power Battery Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: New Energy Vehicle Power Battery Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: New Energy Vehicle Power Battery Production Comparison

4.2.1 United States VS China: New Energy Vehicle Power Battery Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: New Energy Vehicle Power Battery Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: New Energy Vehicle Power Battery Consumption Comparison

4.3.1 United States VS China: New Energy Vehicle Power Battery Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: New Energy Vehicle Power Battery Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based New Energy Vehicle Power Battery Manufacturers and Market Share, 2021-2026

4.4.1 United States Based New Energy Vehicle Power Battery Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers New Energy Vehicle Power Battery Production Value (2021-2026)

4.4.3 United States Based Manufacturers New Energy Vehicle Power Battery Production (2021-2026)

4.5 China Based New Energy Vehicle Power Battery Manufacturers and Market Share

4.5.1 China Based New Energy Vehicle Power Battery Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers New Energy Vehicle Power Battery Production Value (2021-2026)

4.5.3 China Based Manufacturers New Energy Vehicle Power Battery Production (2021-2026)

4.6 Rest of World Based New Energy Vehicle Power Battery Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based New Energy Vehicle Power Battery Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers New Energy Vehicle Power Battery Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers New Energy Vehicle Power Battery Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World New Energy Vehicle Power Battery Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 LFP Battery

5.2.2 NCx Batteries

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World New Energy Vehicle Power Battery Production by Type (2021-2032)

5.3.2 World New Energy Vehicle Power Battery Production Value by Type (2021-2032)

5.3.3 World New Energy Vehicle Power Battery Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FORM

6.1 World New Energy Vehicle Power Battery Market Size Overview by Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Form

6.2.1 Cylindrical Battery

6.2.2 Primitive Battery

6.2.3 Pouch Battery

6.3 Market Segment by Form

6.3.1 World New Energy Vehicle Power Battery Production by Form (2021-2032)

6.3.2 World New Energy Vehicle Power Battery Production Value by Form (2021-2032)

6.3.3 World New Energy Vehicle Power Battery Average Price by Form (2021-2032)

7 MARKET ANALYSIS BY CHARGE RATE

7.1 World New Energy Vehicle Power Battery Market Size Overview by Charge Rate: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Charge Rate

7.2.1 2C Fast Charging Battery

7.2.2 4C Fast Charging Battery

7.2.3 5C+ Ultra-fast Charging Battery

7.3 Market Segment by Charge Rate

7.3.1 World New Energy Vehicle Power Battery Production by Charge Rate (2021-2032)

7.3.2 World New Energy Vehicle Power Battery Production Value by Charge Rate (2021-2032)

7.3.3 World New Energy Vehicle Power Battery Average Price by Charge Rate (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World New Energy Vehicle Power Battery Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Vehicle

8.2.2 Commercial Vehicle

8.3 Market Segment by Application

8.3.1 World New Energy Vehicle Power Battery Production by Application (2021-2032)

8.3.2 World New Energy Vehicle Power Battery Production Value by Application
(2021-2032)

8.3.3 World New Energy Vehicle Power Battery Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 CATL

9.1.1 CATL Details

9.1.2 CATL Major Business

9.1.3 CATL New Energy Vehicle Power Battery Product and Services

9.1.4 CATL New Energy Vehicle Power Battery Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.1.5 CATL Recent Developments/Updates

9.1.6 CATL Competitive Strengths & Weaknesses

9.2 BYD

9.2.1 BYD Details

9.2.2 BYD Major Business

9.2.3 BYD New Energy Vehicle Power Battery Product and Services

9.2.4 BYD New Energy Vehicle Power Battery Production, Price, Value, Gross Margin
and Market Share (2021-2026)

9.2.5 BYD Recent Developments/Updates

9.2.6 BYD Competitive Strengths & Weaknesses

9.3 LG Energy Solution

9.3.1 LG Energy Solution Details

9.3.2 LG Energy Solution Major Business

9.3.3 LG Energy Solution New Energy Vehicle Power Battery Product and Services

9.3.4 LG Energy Solution New Energy Vehicle Power Battery Production, Price, Value,
Gross Margin and Market Share (2021-2026)

9.3.5 LG Energy Solution Recent Developments/Updates

9.3.6 LG Energy Solution Competitive Strengths & Weaknesses

9.4 Panasonic

9.4.1 Panasonic Details

9.4.2 Panasonic Major Business

9.4.3 Panasonic New Energy Vehicle Power Battery Product and Services

9.4.4 Panasonic New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Panasonic Recent Developments/Updates

9.4.6 Panasonic Competitive Strengths & Weaknesses

9.5 Samsung SDI

9.5.1 Samsung SDI Details

9.5.2 Samsung SDI Major Business

9.5.3 Samsung SDI New Energy Vehicle Power Battery Product and Services

9.5.4 Samsung SDI New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Samsung SDI Recent Developments/Updates

9.5.6 Samsung SDI Competitive Strengths & Weaknesses

9.6 SK On

9.6.1 SK On Details

9.6.2 SK On Major Business

9.6.3 SK On New Energy Vehicle Power Battery Product and Services

9.6.4 SK On New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 SK On Recent Developments/Updates

9.6.6 SK On Competitive Strengths & Weaknesses

9.7 Guoxuan High-tech

9.7.1 Guoxuan High-tech Details

9.7.2 Guoxuan High-tech Major Business

9.7.3 Guoxuan High-tech New Energy Vehicle Power Battery Product and Services

9.7.4 Guoxuan High-tech New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Guoxuan High-tech Recent Developments/Updates

9.7.6 Guoxuan High-tech Competitive Strengths & Weaknesses

9.8 CALB Group

9.8.1 CALB Group Details

9.8.2 CALB Group Major Business

9.8.3 CALB Group New Energy Vehicle Power Battery Product and Services

9.8.4 CALB Group New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 CALB Group Recent Developments/Updates

9.8.6 CALB Group Competitive Strengths & Weaknesses

9.9 EVE Energy

9.9.1 EVE Energy Details

9.9.2 EVE Energy Major Business

9.9.3 EVE Energy New Energy Vehicle Power Battery Product and Services

9.9.4 EVE Energy New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 EVE Energy Recent Developments/Updates

9.9.6 EVE Energy Competitive Strengths & Weaknesses

9.10 Sunwoda

9.10.1 Sunwoda Details

9.10.2 Sunwoda Major Business

9.10.3 Sunwoda New Energy Vehicle Power Battery Product and Services

9.10.4 Sunwoda New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Sunwoda Recent Developments/Updates

9.10.6 Sunwoda Competitive Strengths & Weaknesses

9.11 Farasis Energy

9.11.1 Farasis Energy Details

9.11.2 Farasis Energy Major Business

9.11.3 Farasis Energy New Energy Vehicle Power Battery Product and Services

9.11.4 Farasis Energy New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Farasis Energy Recent Developments/Updates

9.11.6 Farasis Energy Competitive Strengths & Weaknesses

9.12 SVOLT Energy Technology

9.12.1 SVOLT Energy Technology Details

9.12.2 SVOLT Energy Technology Major Business

9.12.3 SVOLT Energy Technology New Energy Vehicle Power Battery Product and Services

9.12.4 SVOLT Energy Technology New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 SVOLT Energy Technology Recent Developments/Updates

9.12.6 SVOLT Energy Technology Competitive Strengths & Weaknesses

9.13 REPT BATTERO Energy

9.13.1 REPT BATTERO Energy Details

9.13.2 REPT BATTERO Energy Major Business

9.13.3 REPT BATTERO Energy New Energy Vehicle Power Battery Product and Services

9.13.4 REPT BATTERO Energy New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 REPT BATTERO Energy Recent Developments/Updates

9.13.6 REPT BATTERO Energy Competitive Strengths & Weaknesses

9.14 Tianjin EV Energies

9.14.1 Tianjin EV Energies Details

9.14.2 Tianjin EV Energies Major Business

9.14.3 Tianjin EV Energies New Energy Vehicle Power Battery Product and Services

9.14.4 Tianjin EV Energies New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Tianjin EV Energies Recent Developments/Updates

9.14.6 Tianjin EV Energies Competitive Strengths & Weaknesses

9.15 Do-Fluoride New Materials

9.15.1 Do-Fluoride New Materials Details

9.15.2 Do-Fluoride New Materials Major Business

9.15.3 Do-Fluoride New Materials New Energy Vehicle Power Battery Product and Services

9.15.4 Do-Fluoride New Materials New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Do-Fluoride New Materials Recent Developments/Updates

9.15.6 Do-Fluoride New Materials Competitive Strengths & Weaknesses

9.16 Inpai Battery

9.16.1 Inpai Battery Details

9.16.2 Inpai Battery Major Business

9.16.3 Inpai Battery New Energy Vehicle Power Battery Product and Services

9.16.4 Inpai Battery New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Inpai Battery Recent Developments/Updates

9.16.6 Inpai Battery Competitive Strengths & Weaknesses

9.17 Cornex New Energy

9.17.1 Cornex New Energy Details

9.17.2 Cornex New Energy Major Business

9.17.3 Cornex New Energy New Energy Vehicle Power Battery Product and Services

9.17.4 Cornex New Energy New Energy Vehicle Power Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Cornex New Energy Recent Developments/Updates

9.17.6 Cornex New Energy Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 New Energy Vehicle Power Battery Industry Chain
- 10.2 New Energy Vehicle Power Battery Upstream Analysis
 - 10.2.1 New Energy Vehicle Power Battery Core Raw Materials
 - 10.2.2 Main Manufacturers of New Energy Vehicle Power Battery Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 New Energy Vehicle Power Battery Production Mode
- 10.6 New Energy Vehicle Power Battery Procurement Model
- 10.7 New Energy Vehicle Power Battery Industry Sales Model and Sales Channels
 - 10.7.1 New Energy Vehicle Power Battery Sales Model
 - 10.7.2 New Energy Vehicle Power Battery Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World New Energy Vehicle Power Battery Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World New Energy Vehicle Power Battery Production Value by Region (2021-2026) & (USD Million)

Table 3. World New Energy Vehicle Power Battery Production Value by Region (2027-2032) & (USD Million)

Table 4. World New Energy Vehicle Power Battery Production Value Market Share by Region (2021-2026)

Table 5. World New Energy Vehicle Power Battery Production Value Market Share by Region (2027-2032)

Table 6. World New Energy Vehicle Power Battery Production by Region (2021-2026) & (KWh)

Table 7. World New Energy Vehicle Power Battery Production by Region (2027-2032) & (KWh)

Table 8. World New Energy Vehicle Power Battery Production Market Share by Region (2021-2026)

Table 9. World New Energy Vehicle Power Battery Production Market Share by Region (2027-2032)

Table 10. World New Energy Vehicle Power Battery Average Price by Region (2021-2026) & (US\$/KWh)

Table 11. World New Energy Vehicle Power Battery Average Price by Region (2027-2032) & (US\$/KWh)

Table 12. New Energy Vehicle Power Battery Major Market Trends

Table 13. World New Energy Vehicle Power Battery Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (KWh)

Table 14. World New Energy Vehicle Power Battery Consumption by Region (2021-2026) & (KWh)

Table 15. World New Energy Vehicle Power Battery Consumption Forecast by Region (2027-2032) & (KWh)

Table 16. World New Energy Vehicle Power Battery Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key New Energy Vehicle Power Battery Producers in 2025

Table 18. World New Energy Vehicle Power Battery Production by Manufacturer (2021-2026) & (KWh)

Table 19. Production Market Share of Key New Energy Vehicle Power Battery Producers in 2025

Table 20. World New Energy Vehicle Power Battery Average Price by Manufacturer (2021-2026) & (US\$/KWh)

Table 21. Global New Energy Vehicle Power Battery Company Evaluation Quadrant

Table 22. World New Energy Vehicle Power Battery Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and New Energy Vehicle Power Battery Production Site of Key Manufacturer

Table 24. New Energy Vehicle Power Battery Market: Company Product Type Footprint

Table 25. New Energy Vehicle Power Battery Market: Company Product Application Footprint

Table 26. New Energy Vehicle Power Battery Competitive Factors

Table 27. New Energy Vehicle Power Battery New Entrant and Capacity Expansion Plans

Table 28. New Energy Vehicle Power Battery Mergers & Acquisitions Activity

Table 29. United States VS China New Energy Vehicle Power Battery Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China New Energy Vehicle Power Battery Production Comparison, (2021 & 2025 & 2032) & (KWh)

Table 31. United States VS China New Energy Vehicle Power Battery Consumption Comparison, (2021 & 2025 & 2032) & (KWh)

Table 32. United States Based New Energy Vehicle Power Battery Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers New Energy Vehicle Power Battery Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers New Energy Vehicle Power Battery Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers New Energy Vehicle Power Battery Production (2021-2026) & (KWh)

Table 36. United States Based Manufacturers New Energy Vehicle Power Battery Production Market Share (2021-2026)

Table 37. China Based New Energy Vehicle Power Battery Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers New Energy Vehicle Power Battery Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers New Energy Vehicle Power Battery Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers New Energy Vehicle Power Battery Production,

(2021-2026) & (KWh)

Table 41. China Based Manufacturers New Energy Vehicle Power Battery Production Market Share (2021-2026)

Table 42. Rest of World Based New Energy Vehicle Power Battery Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers New Energy Vehicle Power Battery Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers New Energy Vehicle Power Battery Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers New Energy Vehicle Power Battery Production, (2021-2026) & (KWh)

Table 46. Rest of World Based Manufacturers New Energy Vehicle Power Battery Production Market Share (2021-2026)

Table 47. World New Energy Vehicle Power Battery Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World New Energy Vehicle Power Battery Production by Type (2021-2026) & (KWh)

Table 49. World New Energy Vehicle Power Battery Production by Type (2027-2032) & (KWh)

Table 50. World New Energy Vehicle Power Battery Production Value by Type (2021-2026) & (USD Million)

Table 51. World New Energy Vehicle Power Battery Production Value by Type (2027-2032) & (USD Million)

Table 52. World New Energy Vehicle Power Battery Average Price by Type (2021-2026) & (US\$/KWh)

Table 53. World New Energy Vehicle Power Battery Average Price by Type (2027-2032) & (US\$/KWh)

Table 54. World New Energy Vehicle Power Battery Production Value by Form, (USD Million), 2021 & 2025 & 2032

Table 55. World New Energy Vehicle Power Battery Production by Form (2021-2026) & (KWh)

Table 56. World New Energy Vehicle Power Battery Production by Form (2027-2032) & (KWh)

Table 57. World New Energy Vehicle Power Battery Production Value by Form (2021-2026) & (USD Million)

Table 58. World New Energy Vehicle Power Battery Production Value by Form (2027-2032) & (USD Million)

Table 59. World New Energy Vehicle Power Battery Average Price by Form (2021-2026) & (US\$/KWh)

Table 60. World New Energy Vehicle Power Battery Average Price by Form
(2027-2032) & (US\$/KWh)

Table 61. World New Energy Vehicle Power Battery Production Value by Charge Rate,
(USD Million), 2021 & 2025 & 2032

Table 62. World New Energy Vehicle Power Battery Production by Charge Rate
(2021-2026) & (KWh)

Table 63. World New Energy Vehicle Power Battery Production by Charge Rate
(2027-2032) & (KWh)

Table 64. World New Energy Vehicle Power Battery Production Value by Charge Rate
(2021-2026) & (USD Million)

Table 65. World New Energy Vehicle Power Battery Production Value by Charge Rate
(2027-2032) & (USD Million)

Table 66. World New Energy Vehicle Power Battery Average Price by Charge Rate
(2021-2026) & (US\$/KWh)

Table 67. World New Energy Vehicle Power Battery Average Price by Charge Rate
(2027-2032) & (US\$/KWh)

Table 68. World New Energy Vehicle Power Battery Production Value by Application,
(USD Million), 2021 & 2025 & 2032

Table 69. World New Energy Vehicle Power Battery Production by Application
(2021-2026) & (KWh)

Table 70. World New Energy Vehicle Power Battery Production by Application
(2027-2032) & (KWh)

Table 71. World New Energy Vehicle Power Battery Production Value by Application
(2021-2026) & (USD Million)

Table 72. World New Energy Vehicle Power Battery Production Value by Application
(2027-2032) & (USD Million)

Table 73. World New Energy Vehicle Power Battery Average Price by Application
(2021-2026) & (US\$/KWh)

Table 74. World New Energy Vehicle Power Battery Average Price by Application
(2027-2032) & (US\$/KWh)

Table 75. CATL Basic Information, Manufacturing Base and Competitors

Table 76. CATL Major Business

Table 77. CATL New Energy Vehicle Power Battery Product and Services

Table 78. CATL New Energy Vehicle Power Battery Production (KWh), Price
(US\$/KWh), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 79. CATL Recent Developments/Updates

Table 80. CATL Competitive Strengths & Weaknesses

Table 81. BYD Basic Information, Manufacturing Base and Competitors

Table 82. BYD Major Business

Table 83. BYD New Energy Vehicle Power Battery Product and Services

Table 84. BYD New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. BYD Recent Developments/Updates

Table 86. BYD Competitive Strengths & Weaknesses

Table 87. LG Energy Solution Basic Information, Manufacturing Base and Competitors

Table 88. LG Energy Solution Major Business

Table 89. LG Energy Solution New Energy Vehicle Power Battery Product and Services

Table 90. LG Energy Solution New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. LG Energy Solution Recent Developments/Updates

Table 92. LG Energy Solution Competitive Strengths & Weaknesses

Table 93. Panasonic Basic Information, Manufacturing Base and Competitors

Table 94. Panasonic Major Business

Table 95. Panasonic New Energy Vehicle Power Battery Product and Services

Table 96. Panasonic New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Panasonic Recent Developments/Updates

Table 98. Panasonic Competitive Strengths & Weaknesses

Table 99. Samsung SDI Basic Information, Manufacturing Base and Competitors

Table 100. Samsung SDI Major Business

Table 101. Samsung SDI New Energy Vehicle Power Battery Product and Services

Table 102. Samsung SDI New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Samsung SDI Recent Developments/Updates

Table 104. Samsung SDI Competitive Strengths & Weaknesses

Table 105. SK On Basic Information, Manufacturing Base and Competitors

Table 106. SK On Major Business

Table 107. SK On New Energy Vehicle Power Battery Product and Services

Table 108. SK On New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. SK On Recent Developments/Updates

Table 110. SK On Competitive Strengths & Weaknesses

Table 111. Guoxuan High-tech Basic Information, Manufacturing Base and Competitors

Table 112. Guoxuan High-tech Major Business

Table 113. Guoxuan High-tech New Energy Vehicle Power Battery Product and Services

Table 114. Guoxuan High-tech New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Guoxuan High-tech Recent Developments/Updates

Table 116. Guoxuan High-tech Competitive Strengths & Weaknesses

Table 117. CALB Group Basic Information, Manufacturing Base and Competitors

Table 118. CALB Group Major Business

Table 119. CALB Group New Energy Vehicle Power Battery Product and Services

Table 120. CALB Group New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. CALB Group Recent Developments/Updates

Table 122. CALB Group Competitive Strengths & Weaknesses

Table 123. EVE Energy Basic Information, Manufacturing Base and Competitors

Table 124. EVE Energy Major Business

Table 125. EVE Energy New Energy Vehicle Power Battery Product and Services

Table 126. EVE Energy New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. EVE Energy Recent Developments/Updates

Table 128. EVE Energy Competitive Strengths & Weaknesses

Table 129. Sunwoda Basic Information, Manufacturing Base and Competitors

Table 130. Sunwoda Major Business

Table 131. Sunwoda New Energy Vehicle Power Battery Product and Services

Table 132. Sunwoda New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Sunwoda Recent Developments/Updates

Table 134. Sunwoda Competitive Strengths & Weaknesses

Table 135. Farasis Energy Basic Information, Manufacturing Base and Competitors

Table 136. Farasis Energy Major Business

Table 137. Farasis Energy New Energy Vehicle Power Battery Product and Services

Table 138. Farasis Energy New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Farasis Energy Recent Developments/Updates

Table 140. Farasis Energy Competitive Strengths & Weaknesses
Table 141. SVOLT Energy Technology Basic Information, Manufacturing Base and Competitors
Table 142. SVOLT Energy Technology Major Business
Table 143. SVOLT Energy Technology New Energy Vehicle Power Battery Product and Services
Table 144. SVOLT Energy Technology New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. SVOLT Energy Technology Recent Developments/Updates
Table 146. SVOLT Energy Technology Competitive Strengths & Weaknesses
Table 147. REPT BATTERO Energy Basic Information, Manufacturing Base and Competitors
Table 148. REPT BATTERO Energy Major Business
Table 149. REPT BATTERO Energy New Energy Vehicle Power Battery Product and Services
Table 150. REPT BATTERO Energy New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. REPT BATTERO Energy Recent Developments/Updates
Table 152. REPT BATTERO Energy Competitive Strengths & Weaknesses
Table 153. Tianjin EV Energies Basic Information, Manufacturing Base and Competitors
Table 154. Tianjin EV Energies Major Business
Table 155. Tianjin EV Energies New Energy Vehicle Power Battery Product and Services
Table 156. Tianjin EV Energies New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Tianjin EV Energies Recent Developments/Updates
Table 158. Tianjin EV Energies Competitive Strengths & Weaknesses
Table 159. Do-Fluoride New Materials Basic Information, Manufacturing Base and Competitors
Table 160. Do-Fluoride New Materials Major Business
Table 161. Do-Fluoride New Materials New Energy Vehicle Power Battery Product and Services
Table 162. Do-Fluoride New Materials New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Do-Fluoride New Materials Recent Developments/Updates

Table 164. Do-Fluoride New Materials Competitive Strengths & Weaknesses

Table 165. Inpai Battery Basic Information, Manufacturing Base and Competitors

Table 166. Inpai Battery Major Business

Table 167. Inpai Battery New Energy Vehicle Power Battery Product and Services

Table 168. Inpai Battery New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Inpai Battery Recent Developments/Updates

Table 170. Inpai Battery Competitive Strengths & Weaknesses

Table 171. Cornex New Energy Basic Information, Manufacturing Base and Competitors

Table 172. Cornex New Energy Major Business

Table 173. Cornex New Energy New Energy Vehicle Power Battery Product and Services

Table 174. Cornex New Energy New Energy Vehicle Power Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Cornex New Energy Recent Developments/Updates

Table 176. Cornex New Energy Competitive Strengths & Weaknesses

Table 177. Global Key Players of New Energy Vehicle Power Battery Upstream (Raw Materials)

Table 178. Global New Energy Vehicle Power Battery Typical Customers

Table 179. New Energy Vehicle Power Battery Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. New Energy Vehicle Power Battery Picture

Figure 2. World New Energy Vehicle Power Battery Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World New Energy Vehicle Power Battery Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World New Energy Vehicle Power Battery Production (2021-2032) & (KWh)

Figure 5. World New Energy Vehicle Power Battery Average Price (2021-2032) & (US\$/KWh)

Figure 6. World New Energy Vehicle Power Battery Production Value Market Share by Region (2021-2032)

Figure 7. World New Energy Vehicle Power Battery Production Market Share by Region (2021-2032)

Figure 8. North America New Energy Vehicle Power Battery Production (2021-2032) & (KWh)

Figure 9. Europe New Energy Vehicle Power Battery Production (2021-2032) & (KWh)

Figure 10. China New Energy Vehicle Power Battery Production (2021-2032) & (KWh)

Figure 11. Japan New Energy Vehicle Power Battery Production (2021-2032) & (KWh)

Figure 12. South Korea New Energy Vehicle Power Battery Production (2021-2032) & (KWh)

Figure 13. India New Energy Vehicle Power Battery Production (2021-2032) & (KWh)

Figure 14. New Energy Vehicle Power Battery Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World New Energy Vehicle Power Battery Consumption (2021-2032) & (KWh)

Figure 17. World New Energy Vehicle Power Battery Consumption Market Share by Region (2021-2032)

Figure 18. United States New Energy Vehicle Power Battery Consumption (2021-2032) & (KWh)

Figure 19. China New Energy Vehicle Power Battery Consumption (2021-2032) & (KWh)

Figure 20. Europe New Energy Vehicle Power Battery Consumption (2021-2032) & (KWh)

Figure 21. Japan New Energy Vehicle Power Battery Consumption (2021-2032) & (KWh)

Figure 22. South Korea New Energy Vehicle Power Battery Consumption (2021-2032)

& (KWh)

Figure 23. ASEAN New Energy Vehicle Power Battery Consumption (2021-2032) & (KWh)

Figure 24. India New Energy Vehicle Power Battery Consumption (2021-2032) & (KWh)

Figure 25. Producer Shipments of New Energy Vehicle Power Battery by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for New Energy Vehicle Power Battery Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for New Energy Vehicle Power Battery Markets in 2025

Figure 28. United States VS China: New Energy Vehicle Power Battery Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: New Energy Vehicle Power Battery Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: New Energy Vehicle Power Battery Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers New Energy Vehicle Power Battery Production Market Share 2025

Figure 32. China Based Manufacturers New Energy Vehicle Power Battery Production Market Share 2025

Figure 33. Rest of World Based Manufacturers New Energy Vehicle Power Battery Production Market Share 2025

Figure 34. World New Energy Vehicle Power Battery Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World New Energy Vehicle Power Battery Production Value Market Share by Type in 2025

Figure 36. LFP Battery

Figure 37. NCx Batteries

Figure 38. Others

Figure 39. World New Energy Vehicle Power Battery Production Market Share by Type (2021-2032)

Figure 40. World New Energy Vehicle Power Battery Production Value Market Share by Type (2021-2032)

Figure 41. World New Energy Vehicle Power Battery Average Price by Type (2021-2032) & (US\$/KWh)

Figure 42. World New Energy Vehicle Power Battery Production Value by Form, (USD Million), 2021 & 2025 & 2032

Figure 43. World New Energy Vehicle Power Battery Production Value Market Share by Form in 2025

Figure 44. Cylindrical Battery

Figure 45. Primitive Battery

Figure 46. Pouch Battery

Figure 47. World New Energy Vehicle Power Battery Production Market Share by Form (2021-2032)

Figure 48. World New Energy Vehicle Power Battery Production Value Market Share by Form (2021-2032)

Figure 49. World New Energy Vehicle Power Battery Average Price by Form (2021-2032) & (US\$/KWh)

Figure 50. World New Energy Vehicle Power Battery Production Value by Charge Rate, (USD Million), 2021 & 2025 & 2032

Figure 51. World New Energy Vehicle Power Battery Production Value Market Share by Charge Rate in 2025

Figure 52. 2C Fast Charging Battery

Figure 53. 4C Fast Charging Battery

Figure 54. 5C+ Ultra-fast Charging Battery

Figure 55. World New Energy Vehicle Power Battery Production Market Share by Charge Rate (2021-2032)

Figure 56. World New Energy Vehicle Power Battery Production Value Market Share by Charge Rate (2021-2032)

Figure 57. World New Energy Vehicle Power Battery Average Price by Charge Rate (2021-2032) & (US\$/KWh)

Figure 58. World New Energy Vehicle Power Battery Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World New Energy Vehicle Power Battery Production Value Market Share by Application in 2025

Figure 60. Passenger Vehicle

Figure 61. Commercial Vehicle

Figure 62. World New Energy Vehicle Power Battery Production Market Share by Application (2021-2032)

Figure 63. World New Energy Vehicle Power Battery Production Value Market Share by Application (2021-2032)

Figure 64. World New Energy Vehicle Power Battery Average Price by Application (2021-2032) & (US\$/KWh)

Figure 65. New Energy Vehicle Power Battery Industry Chain

Figure 66. New Energy Vehicle Power Battery Procurement Model

Figure 67. New Energy Vehicle Power Battery Sales Model

Figure 68. New Energy Vehicle Power Battery Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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