

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

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Abstracts

The global Li-Ion Battery market size is expected to reach \$ 349430 million by 2032, rising at a market growth of 18.2% CAGR during the forecast period (2026-2032). Lithium-ion batteries are a type of rechargeable battery that uses lithium elements in an electrochemical reaction as the energy carrier. Charging and discharging are achieved through the reversible insertion and extraction of lithium ions between the positive and negative electrodes. Their core advantages lie in high energy density, high operating voltage, low self-discharge rate, and long cycle life, while also being relatively lightweight, making them suitable for applications with high requirements for range and efficiency. Depending on the cathode material, lithium-ion batteries can be further divided into lithium-ion batteries (such as lithium iron phosphate and ternary materials) and lithium metal batteries. They are widely used in consumer electronics, electric vehicles, energy storage systems, and industrial equipment, and are one of the key foundational technologies for the current development of new energy and electrification. In 2025, global lithium-ion battery production was approximately 2300 GWh, with automotive power batteries accounting for over 65%, and China's production accounting for more than 80% of global production.

Against the backdrop of accelerating global energy structure transformation and electrification, lithium-ion batteries have become one of the core foundations supporting the new energy industry system. From new energy vehicles and energy storage systems to consumer electronics and industrial equipment, lithium-ion batteries are deeply embedded in global economic operations and energy usage patterns, attracting significant attention from governments, capital, and various stakeholders across the industry chain regarding their market size, technological evolution, and industrial structure.

In terms of market size, the global lithium-ion battery market has maintained rapid growth in recent years. The continuously increasing penetration rate of new energy

vehicles is one of the most crucial demand drivers, with power batteries becoming the largest and fastest-growing segment in lithium-ion battery applications. Simultaneously, with the continuous expansion of renewable energy installations, the demand for high-performance lithium-ion batteries in energy storage systems is rapidly increasing, further expanding the market space. Coupled with the trends of consumer electronics upgrades and industrial electrification, the lithium-ion battery market has formed a demand structure characterized by 'power batteries as the mainstay, rapid expansion of energy storage batteries, and synergistic growth across diverse applications.'

From a technological perspective, lithium-ion batteries are continuously evolving around high energy density, high safety, long cycle life, and cost optimization. In terms of cathode materials, ternary materials and lithium iron phosphate systems are continuously optimizing their performance and cost. At the battery structure level, prismatic, cylindrical, and pouch batteries are developing in parallel, evolving towards high integration and system-level innovation. At the system level, technologies such as CTP and CTC are continuously improving the energy utilization efficiency of battery systems. Technological advancements are not only driving the continuous expansion of lithium-ion battery performance boundaries but also accelerating their large-scale deployment in more application scenarios.

From the perspective of the industry chain, the lithium-ion battery industry exhibits a high degree of globalization and regionalization. Upstream involves the supply of key resources and materials such as lithium, nickel, and cobalt; midstream involves cell and battery system manufacturing; and downstream covers OEMs, energy storage integrators, and terminal equipment manufacturers. China has formed a significant scale advantage and a complete supporting system in battery manufacturing, becoming one of the world's most important production and export bases for lithium-ion batteries. Meanwhile, Europe, the United States, Japan, and South Korea are also increasing their efforts in building domestic production capacity and reshaping their supply chains to enhance energy security and industrial autonomy.

From the perspective of the competitive environment, the market concentration of lithium-ion batteries is gradually increasing. Leading battery companies, leveraging their technological accumulation, economies of scale, customer loyalty, and capital strength, continue to expand their market share in the power and energy storage sectors; while smaller companies focus more on niche applications, differentiated products, or regional markets. Looking ahead, as industry demands for safety, consistency, and supply stability continue to rise, companies with long-term technological investment capabilities and system delivery capabilities will further solidify their competitive advantages. Looking ahead, the lithium-ion battery market will maintain a medium- to long-term growth trend. On the one hand, the global carbon neutrality goal and the trend of

electric vehicles replacing traditional gasoline vehicles are clear; on the other hand, the strategic importance of energy storage in the power system is constantly increasing. Despite challenges such as fluctuating raw material prices, technological competition, and policy uncertainties, lithium-ion batteries, as a key foundation of the new energy system, will continue to expand their strategic value and market space, becoming one of the most certain core industries in the global energy transition process.

This report studies the global Li-Ion Battery production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Li-Ion Battery total production and demand, 2021-2032, (KWh)

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

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

Global Li-Ion Battery consumption by region & country, CAGR, 2021-2032 & (KWh)

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

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

Global Li-Ion Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

Global Li-Ion Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global 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 CATL, Panasonic, Samsung SDI, LG Chem, ATL, Murata, BYD, SK on, CBAK New Energy, Sunwoda Electronic, 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 Li-Ion 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 Li-Ion Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Li-Ion Battery Market, Segmentation by Type:

Lithium Iron Phosphate Batteries

Ternary Lithium Batteries

Others

Global Li-Ion Battery Market, Segmentation by Structural Form:

Cylindrical

Prismatic

Pouch

Global Li-Ion Battery Market, Segmentation by Cobalt Content:

Cobalt-Containing Batteries

Cobalt-Free Batteries

Global Li-Ion Battery Market, Segmentation by Application:

Automotive

Consumer Electronics

Energy Storage

Other

Companies Profiled:

CATL

Panasonic

Samsung SDI

LG Chem

ATL

Murata

BYD

SK on

CBAK New Energy

Sunwoda Electronic

AESC

Toshiba

Tianjin Lishen Battery

Saft

Gotion High-tech

EVE

CALB Group

Desay Battery

SVOLT Energy Technology

Farasis Energy

REPT BATTERO

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Li-Ion Battery Introduction
- 1.2 World Li-Ion Battery Supply & Forecast
 - 1.2.1 World Li-Ion Battery Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Li-Ion Battery Production (2021-2032)
 - 1.2.3 World Li-Ion Battery Pricing Trends (2021-2032)
- 1.3 World Li-Ion Battery Production by Region (Based on Production Site)
 - 1.3.1 World Li-Ion Battery Production Value by Region (2021-2032)
 - 1.3.2 World Li-Ion Battery Production by Region (2021-2032)
 - 1.3.3 World Li-Ion Battery Average Price by Region (2021-2032)
 - 1.3.4 North America Li-Ion Battery Production (2021-2032)
 - 1.3.5 Europe Li-Ion Battery Production (2021-2032)
 - 1.3.6 China Li-Ion Battery Production (2021-2032)
 - 1.3.7 Japan Li-Ion Battery Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Li-Ion Battery Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Li-Ion Battery Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Li-Ion Battery Demand (2021-2032)
- 2.2 World Li-Ion Battery Consumption by Region
 - 2.2.1 World Li-Ion Battery Consumption by Region (2021-2026)
 - 2.2.2 World Li-Ion Battery Consumption Forecast by Region (2027-2032)
- 2.3 United States Li-Ion Battery Consumption (2021-2032)
- 2.4 China Li-Ion Battery Consumption (2021-2032)
- 2.5 Europe Li-Ion Battery Consumption (2021-2032)
- 2.6 Japan Li-Ion Battery Consumption (2021-2032)
- 2.7 South Korea Li-Ion Battery Consumption (2021-2032)
- 2.8 ASEAN Li-Ion Battery Consumption (2021-2032)
- 2.9 India Li-Ion Battery Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Li-Ion Battery Production Value by Manufacturer (2021-2026)

- 3.2 World Li-Ion Battery Production by Manufacturer (2021-2026)
- 3.3 World Li-Ion Battery Average Price by Manufacturer (2021-2026)
- 3.4 Li-Ion Battery Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Li-Ion Battery Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Li-Ion Battery in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Li-Ion Battery in 2025
- 3.6 Li-Ion Battery Market: Overall Company Footprint Analysis
 - 3.6.1 Li-Ion Battery Market: Region Footprint
 - 3.6.2 Li-Ion Battery Market: Company Product Type Footprint
 - 3.6.3 Li-Ion 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: Li-Ion Battery Production Value Comparison
 - 4.1.1 United States VS China: Li-Ion Battery Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Li-Ion Battery Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Li-Ion Battery Production Comparison
 - 4.2.1 United States VS China: Li-Ion Battery Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Li-Ion Battery Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Li-Ion Battery Consumption Comparison
 - 4.3.1 United States VS China: Li-Ion Battery Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Li-Ion Battery Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Li-Ion Battery Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Li-Ion Battery Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Li-Ion Battery Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers Li-Ion Battery Production (2021-2026)
- 4.5 China Based Li-Ion Battery Manufacturers and Market Share
 - 4.5.1 China Based Li-Ion Battery Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Li-Ion Battery Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Li-Ion Battery Production (2021-2026)
- 4.6 Rest of World Based Li-Ion Battery Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Li-Ion Battery Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Li-Ion Battery Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Li-Ion Battery Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Li-Ion Battery Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Lithium Iron Phosphate Batteries
 - 5.2.2 Ternary Lithium Batteries
 - 5.2.3 Others
- 5.3 Market Segment by Type
 - 5.3.1 World Li-Ion Battery Production by Type (2021-2032)
 - 5.3.2 World Li-Ion Battery Production Value by Type (2021-2032)
 - 5.3.3 World Li-Ion Battery Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY STRUCTURAL FORM

- 6.1 World Li-Ion Battery Market Size Overview by Structural Form: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Structural Form
 - 6.2.1 Cylindrical
 - 6.2.2 Prismatic
 - 6.2.3 Pouch
- 6.3 Market Segment by Structural Form
 - 6.3.1 World Li-Ion Battery Production by Structural Form (2021-2032)
 - 6.3.2 World Li-Ion Battery Production Value by Structural Form (2021-2032)
 - 6.3.3 World Li-Ion Battery Average Price by Structural Form (2021-2032)

7 MARKET ANALYSIS BY COBALT CONTENT

7.1 World Li-Ion Battery Market Size Overview by Cobalt Content: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Cobalt Content

7.2.1 Cobalt-Containing Batteries

7.2.2 Cobalt-Free Batteries

7.3 Market Segment by Cobalt Content

7.3.1 World Li-Ion Battery Production by Cobalt Content (2021-2032)

7.3.2 World Li-Ion Battery Production Value by Cobalt Content (2021-2032)

7.3.3 World Li-Ion Battery Average Price by Cobalt Content (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Li-Ion Battery Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Consumer Electronics

8.2.3 Energy Storage

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Li-Ion Battery Production by Application (2021-2032)

8.3.2 World Li-Ion Battery Production Value by Application (2021-2032)

8.3.3 World Li-Ion 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 Li-Ion Battery Product and Services

9.1.4 CATL Li-Ion 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 Panasonic

9.2.1 Panasonic Details

9.2.2 Panasonic Major Business

9.2.3 Panasonic Li-Ion Battery Product and Services

9.2.4 Panasonic Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.2.5 Panasonic Recent Developments/Updates
- 9.2.6 Panasonic Competitive Strengths & Weaknesses
- 9.3 Samsung SDI
 - 9.3.1 Samsung SDI Details
 - 9.3.2 Samsung SDI Major Business
 - 9.3.3 Samsung SDI Li-Ion Battery Product and Services
 - 9.3.4 Samsung SDI Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Samsung SDI Recent Developments/Updates
 - 9.3.6 Samsung SDI Competitive Strengths & Weaknesses
- 9.4 LG Chem
 - 9.4.1 LG Chem Details
 - 9.4.2 LG Chem Major Business
 - 9.4.3 LG Chem Li-Ion Battery Product and Services
 - 9.4.4 LG Chem Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 LG Chem Recent Developments/Updates
 - 9.4.6 LG Chem Competitive Strengths & Weaknesses
- 9.5 ATL
 - 9.5.1 ATL Details
 - 9.5.2 ATL Major Business
 - 9.5.3 ATL Li-Ion Battery Product and Services
 - 9.5.4 ATL Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 ATL Recent Developments/Updates
 - 9.5.6 ATL Competitive Strengths & Weaknesses
- 9.6 Murata
 - 9.6.1 Murata Details
 - 9.6.2 Murata Major Business
 - 9.6.3 Murata Li-Ion Battery Product and Services
 - 9.6.4 Murata Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Murata Recent Developments/Updates
 - 9.6.6 Murata Competitive Strengths & Weaknesses
- 9.7 BYD
 - 9.7.1 BYD Details
 - 9.7.2 BYD Major Business
 - 9.7.3 BYD Li-Ion Battery Product and Services
 - 9.7.4 BYD Li-Ion Battery Production, Price, Value, Gross Margin and Market Share

(2021-2026)

9.7.5 BYD Recent Developments/Updates

9.7.6 BYD Competitive Strengths & Weaknesses

9.8 SK on

9.8.1 SK on Details

9.8.2 SK on Major Business

9.8.3 SK on Li-Ion Battery Product and Services

9.8.4 SK on Li-Ion Battery Production, Price, Value, Gross Margin and Market Share

(2021-2026)

9.8.5 SK on Recent Developments/Updates

9.8.6 SK on Competitive Strengths & Weaknesses

9.9 CBAK New Energy

9.9.1 CBAK New Energy Details

9.9.2 CBAK New Energy Major Business

9.9.3 CBAK New Energy Li-Ion Battery Product and Services

9.9.4 CBAK New Energy Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 CBAK New Energy Recent Developments/Updates

9.9.6 CBAK New Energy Competitive Strengths & Weaknesses

9.10 Sunwoda Electronic

9.10.1 Sunwoda Electronic Details

9.10.2 Sunwoda Electronic Major Business

9.10.3 Sunwoda Electronic Li-Ion Battery Product and Services

9.10.4 Sunwoda Electronic Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Sunwoda Electronic Recent Developments/Updates

9.10.6 Sunwoda Electronic Competitive Strengths & Weaknesses

9.11 AESC

9.11.1 AESC Details

9.11.2 AESC Major Business

9.11.3 AESC Li-Ion Battery Product and Services

9.11.4 AESC Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 AESC Recent Developments/Updates

9.11.6 AESC Competitive Strengths & Weaknesses

9.12 Toshiba

9.12.1 Toshiba Details

9.12.2 Toshiba Major Business

9.12.3 Toshiba Li-Ion Battery Product and Services

9.12.4 Toshiba Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Toshiba Recent Developments/Updates

9.12.6 Toshiba Competitive Strengths & Weaknesses

9.13 Tianjin Lishen Battery

9.13.1 Tianjin Lishen Battery Details

9.13.2 Tianjin Lishen Battery Major Business

9.13.3 Tianjin Lishen Battery Li-Ion Battery Product and Services

9.13.4 Tianjin Lishen Battery Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Tianjin Lishen Battery Recent Developments/Updates

9.13.6 Tianjin Lishen Battery Competitive Strengths & Weaknesses

9.14 Saft

9.14.1 Saft Details

9.14.2 Saft Major Business

9.14.3 Saft Li-Ion Battery Product and Services

9.14.4 Saft Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Saft Recent Developments/Updates

9.14.6 Saft Competitive Strengths & Weaknesses

9.15 Gotion High-tech

9.15.1 Gotion High-tech Details

9.15.2 Gotion High-tech Major Business

9.15.3 Gotion High-tech Li-Ion Battery Product and Services

9.15.4 Gotion High-tech Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Gotion High-tech Recent Developments/Updates

9.15.6 Gotion High-tech Competitive Strengths & Weaknesses

9.16 EVE

9.16.1 EVE Details

9.16.2 EVE Major Business

9.16.3 EVE Li-Ion Battery Product and Services

9.16.4 EVE Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 EVE Recent Developments/Updates

9.16.6 EVE Competitive Strengths & Weaknesses

9.17 CALB Group

9.17.1 CALB Group Details

9.17.2 CALB Group Major Business

- 9.17.3 CALB Group Li-Ion Battery Product and Services
- 9.17.4 CALB Group Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 CALB Group Recent Developments/Updates
- 9.17.6 CALB Group Competitive Strengths & Weaknesses
- 9.18 Desay Battery
 - 9.18.1 Desay Battery Details
 - 9.18.2 Desay Battery Major Business
 - 9.18.3 Desay Battery Li-Ion Battery Product and Services
 - 9.18.4 Desay Battery Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Desay Battery Recent Developments/Updates
 - 9.18.6 Desay Battery Competitive Strengths & Weaknesses
- 9.19 SVOLT Energy Technology
 - 9.19.1 SVOLT Energy Technology Details
 - 9.19.2 SVOLT Energy Technology Major Business
 - 9.19.3 SVOLT Energy Technology Li-Ion Battery Product and Services
 - 9.19.4 SVOLT Energy Technology Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 SVOLT Energy Technology Recent Developments/Updates
 - 9.19.6 SVOLT Energy Technology Competitive Strengths & Weaknesses
- 9.20 Farasis Energy
 - 9.20.1 Farasis Energy Details
 - 9.20.2 Farasis Energy Major Business
 - 9.20.3 Farasis Energy Li-Ion Battery Product and Services
 - 9.20.4 Farasis Energy Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Farasis Energy Recent Developments/Updates
 - 9.20.6 Farasis Energy Competitive Strengths & Weaknesses
- 9.21 REPT BATTERO
 - 9.21.1 REPT BATTERO Details
 - 9.21.2 REPT BATTERO Major Business
 - 9.21.3 REPT BATTERO Li-Ion Battery Product and Services
 - 9.21.4 REPT BATTERO Li-Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 REPT BATTERO Recent Developments/Updates
 - 9.21.6 REPT BATTERO Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Li-Ion Battery Industry Chain
- 10.2 Li-Ion Battery Upstream Analysis
 - 10.2.1 Li-Ion Battery Core Raw Materials
 - 10.2.2 Main Manufacturers of Li-Ion Battery Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Li-Ion Battery Production Mode
- 10.6 Li-Ion Battery Procurement Model
- 10.7 Li-Ion Battery Industry Sales Model and Sales Channels
 - 10.7.1 Li-Ion Battery Sales Model
 - 10.7.2 Li-Ion 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 Li-Ion Battery Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Li-Ion Battery Production Value by Region (2021-2026) & (USD Million)

Table 3. World Li-Ion Battery Production Value by Region (2027-2032) & (USD Million)

Table 4. World Li-Ion Battery Production Value Market Share by Region (2021-2026)

Table 5. World Li-Ion Battery Production Value Market Share by Region (2027-2032)

Table 6. World Li-Ion Battery Production by Region (2021-2026) & (KWh)

Table 7. World Li-Ion Battery Production by Region (2027-2032) & (KWh)

Table 8. World Li-Ion Battery Production Market Share by Region (2021-2026)

Table 9. World Li-Ion Battery Production Market Share by Region (2027-2032)

Table 10. World Li-Ion Battery Average Price by Region (2021-2026) & (US\$/KWh)

Table 11. World Li-Ion Battery Average Price by Region (2027-2032) & (US\$/KWh)

Table 12. Li-Ion Battery Major Market Trends

Table 13. World Li-Ion Battery Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (KWh)

Table 14. World Li-Ion Battery Consumption by Region (2021-2026) & (KWh)

Table 15. World Li-Ion Battery Consumption Forecast by Region (2027-2032) & (KWh)

Table 16. World Li-Ion Battery Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Li-Ion Battery Producers in 2025

Table 18. World Li-Ion Battery Production by Manufacturer (2021-2026) & (KWh)

Table 19. Production Market Share of Key Li-Ion Battery Producers in 2025

Table 20. World Li-Ion Battery Average Price by Manufacturer (2021-2026) & (US\$/KWh)

Table 21. Global Li-Ion Battery Company Evaluation Quadrant

Table 22. World Li-Ion Battery Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Li-Ion Battery Production Site of Key Manufacturer

Table 24. Li-Ion Battery Market: Company Product Type Footprint

Table 25. Li-Ion Battery Market: Company Product Application Footprint

Table 26. Li-Ion Battery Competitive Factors

Table 27. Li-Ion Battery New Entrant and Capacity Expansion Plans

Table 28. Li-Ion Battery Mergers & Acquisitions Activity

Table 29. United States VS China Li-Ion Battery Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Li-Ion Battery Production Comparison, (2021 & 2025 & 2032) & (KWh)

Table 31. United States VS China Li-Ion Battery Consumption Comparison, (2021 & 2025 & 2032) & (KWh)

Table 32. United States Based Li-Ion Battery Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Li-Ion Battery Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Li-Ion Battery Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Li-Ion Battery Production (2021-2026) & (KWh)

Table 36. United States Based Manufacturers Li-Ion Battery Production Market Share (2021-2026)

Table 37. China Based Li-Ion Battery Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Li-Ion Battery Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Li-Ion Battery Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Li-Ion Battery Production, (2021-2026) & (KWh)

Table 41. China Based Manufacturers Li-Ion Battery Production Market Share (2021-2026)

Table 42. Rest of World Based Li-Ion Battery Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Li-Ion Battery Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Li-Ion Battery Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Li-Ion Battery Production, (2021-2026) & (KWh)

Table 46. Rest of World Based Manufacturers Li-Ion Battery Production Market Share (2021-2026)

Table 47. World Li-Ion Battery Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Li-Ion Battery Production by Type (2021-2026) & (KWh)

Table 49. World Li-Ion Battery Production by Type (2027-2032) & (KWh)

Table 50. World Li-Ion Battery Production Value by Type (2021-2026) & (USD Million)

Table 51. World Li-Ion Battery Production Value by Type (2027-2032) & (USD Million)

- Table 52. World Li-Ion Battery Average Price by Type (2021-2026) & (US\$/KWh)
- Table 53. World Li-Ion Battery Average Price by Type (2027-2032) & (US\$/KWh)
- Table 54. World Li-Ion Battery Production Value by Structural Form, (USD Million), 2021 & 2025 & 2032
- Table 55. World Li-Ion Battery Production by Structural Form (2021-2026) & (KWh)
- Table 56. World Li-Ion Battery Production by Structural Form (2027-2032) & (KWh)
- Table 57. World Li-Ion Battery Production Value by Structural Form (2021-2026) & (USD Million)
- Table 58. World Li-Ion Battery Production Value by Structural Form (2027-2032) & (USD Million)
- Table 59. World Li-Ion Battery Average Price by Structural Form (2021-2026) & (US\$/KWh)
- Table 60. World Li-Ion Battery Average Price by Structural Form (2027-2032) & (US\$/KWh)
- Table 61. World Li-Ion Battery Production Value by Cobalt Content, (USD Million), 2021 & 2025 & 2032
- Table 62. World Li-Ion Battery Production by Cobalt Content (2021-2026) & (KWh)
- Table 63. World Li-Ion Battery Production by Cobalt Content (2027-2032) & (KWh)
- Table 64. World Li-Ion Battery Production Value by Cobalt Content (2021-2026) & (USD Million)
- Table 65. World Li-Ion Battery Production Value by Cobalt Content (2027-2032) & (USD Million)
- Table 66. World Li-Ion Battery Average Price by Cobalt Content (2021-2026) & (US\$/KWh)
- Table 67. World Li-Ion Battery Average Price by Cobalt Content (2027-2032) & (US\$/KWh)
- Table 68. World Li-Ion Battery Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Li-Ion Battery Production by Application (2021-2026) & (KWh)
- Table 70. World Li-Ion Battery Production by Application (2027-2032) & (KWh)
- Table 71. World Li-Ion Battery Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Li-Ion Battery Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Li-Ion Battery Average Price by Application (2021-2026) & (US\$/KWh)
- Table 74. World Li-Ion 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 Li-Ion Battery Product and Services

Table 78. CATL Li-Ion 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. Panasonic Basic Information, Manufacturing Base and Competitors

Table 82. Panasonic Major Business

Table 83. Panasonic Li-Ion Battery Product and Services

Table 84. Panasonic Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Panasonic Recent Developments/Updates

Table 86. Panasonic Competitive Strengths & Weaknesses

Table 87. Samsung SDI Basic Information, Manufacturing Base and Competitors

Table 88. Samsung SDI Major Business

Table 89. Samsung SDI Li-Ion Battery Product and Services

Table 90. Samsung SDI Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Samsung SDI Recent Developments/Updates

Table 92. Samsung SDI Competitive Strengths & Weaknesses

Table 93. LG Chem Basic Information, Manufacturing Base and Competitors

Table 94. LG Chem Major Business

Table 95. LG Chem Li-Ion Battery Product and Services

Table 96. LG Chem Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. LG Chem Recent Developments/Updates

Table 98. LG Chem Competitive Strengths & Weaknesses

Table 99. ATL Basic Information, Manufacturing Base and Competitors

Table 100. ATL Major Business

Table 101. ATL Li-Ion Battery Product and Services

Table 102. ATL Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ATL Recent Developments/Updates

Table 104. ATL Competitive Strengths & Weaknesses

Table 105. Murata Basic Information, Manufacturing Base and Competitors

Table 106. Murata Major Business

Table 107. Murata Li-Ion Battery Product and Services

Table 108. Murata Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Murata Recent Developments/Updates

Table 110. Murata Competitive Strengths & Weaknesses

- Table 111. BYD Basic Information, Manufacturing Base and Competitors
- Table 112. BYD Major Business
- Table 113. BYD Li-Ion Battery Product and Services
- Table 114. BYD Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. BYD Recent Developments/Updates
- Table 116. BYD Competitive Strengths & Weaknesses
- Table 117. SK on Basic Information, Manufacturing Base and Competitors
- Table 118. SK on Major Business
- Table 119. SK on Li-Ion Battery Product and Services
- Table 120. SK on Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. SK on Recent Developments/Updates
- Table 122. SK on Competitive Strengths & Weaknesses
- Table 123. CBAK New Energy Basic Information, Manufacturing Base and Competitors
- Table 124. CBAK New Energy Major Business
- Table 125. CBAK New Energy Li-Ion Battery Product and Services
- Table 126. CBAK New Energy Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. CBAK New Energy Recent Developments/Updates
- Table 128. CBAK New Energy Competitive Strengths & Weaknesses
- Table 129. Sunwoda Electronic Basic Information, Manufacturing Base and Competitors
- Table 130. Sunwoda Electronic Major Business
- Table 131. Sunwoda Electronic Li-Ion Battery Product and Services
- Table 132. Sunwoda Electronic Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Sunwoda Electronic Recent Developments/Updates
- Table 134. Sunwoda Electronic Competitive Strengths & Weaknesses
- Table 135. AESC Basic Information, Manufacturing Base and Competitors
- Table 136. AESC Major Business
- Table 137. AESC Li-Ion Battery Product and Services
- Table 138. AESC Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. AESC Recent Developments/Updates
- Table 140. AESC Competitive Strengths & Weaknesses
- Table 141. Toshiba Basic Information, Manufacturing Base and Competitors
- Table 142. Toshiba Major Business
- Table 143. Toshiba Li-Ion Battery Product and Services
- Table 144. Toshiba Li-Ion Battery Production (KWh), Price (US\$/KWh), Production

Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Toshiba Recent Developments/Updates

Table 146. Toshiba Competitive Strengths & Weaknesses

Table 147. Tianjin Lishen Battery Basic Information, Manufacturing Base and Competitors

Table 148. Tianjin Lishen Battery Major Business

Table 149. Tianjin Lishen Battery Li-Ion Battery Product and Services

Table 150. Tianjin Lishen Battery Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Tianjin Lishen Battery Recent Developments/Updates

Table 152. Tianjin Lishen Battery Competitive Strengths & Weaknesses

Table 153. Saft Basic Information, Manufacturing Base and Competitors

Table 154. Saft Major Business

Table 155. Saft Li-Ion Battery Product and Services

Table 156. Saft Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Saft Recent Developments/Updates

Table 158. Saft Competitive Strengths & Weaknesses

Table 159. Gotion High-tech Basic Information, Manufacturing Base and Competitors

Table 160. Gotion High-tech Major Business

Table 161. Gotion High-tech Li-Ion Battery Product and Services

Table 162. Gotion High-tech Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Gotion High-tech Recent Developments/Updates

Table 164. Gotion High-tech Competitive Strengths & Weaknesses

Table 165. EVE Basic Information, Manufacturing Base and Competitors

Table 166. EVE Major Business

Table 167. EVE Li-Ion Battery Product and Services

Table 168. EVE Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. EVE Recent Developments/Updates

Table 170. EVE Competitive Strengths & Weaknesses

Table 171. CALB Group Basic Information, Manufacturing Base and Competitors

Table 172. CALB Group Major Business

Table 173. CALB Group Li-Ion Battery Product and Services

Table 174. CALB Group Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. CALB Group Recent Developments/Updates

Table 176. CALB Group Competitive Strengths & Weaknesses

- Table 177. Desay Battery Basic Information, Manufacturing Base and Competitors
- Table 178. Desay Battery Major Business
- Table 179. Desay Battery Li-Ion Battery Product and Services
- Table 180. Desay Battery Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Desay Battery Recent Developments/Updates
- Table 182. Desay Battery Competitive Strengths & Weaknesses
- Table 183. SVOLT Energy Technology Basic Information, Manufacturing Base and Competitors
- Table 184. SVOLT Energy Technology Major Business
- Table 185. SVOLT Energy Technology Li-Ion Battery Product and Services
- Table 186. SVOLT Energy Technology Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 187. SVOLT Energy Technology Recent Developments/Updates
- Table 188. SVOLT Energy Technology Competitive Strengths & Weaknesses
- Table 189. Farasis Energy Basic Information, Manufacturing Base and Competitors
- Table 190. Farasis Energy Major Business
- Table 191. Farasis Energy Li-Ion Battery Product and Services
- Table 192. Farasis Energy Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 193. Farasis Energy Recent Developments/Updates
- Table 194. Farasis Energy Competitive Strengths & Weaknesses
- Table 195. REPT BATTERO Basic Information, Manufacturing Base and Competitors
- Table 196. REPT BATTERO Major Business
- Table 197. REPT BATTERO Li-Ion Battery Product and Services
- Table 198. REPT BATTERO Li-Ion Battery Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 199. REPT BATTERO Recent Developments/Updates
- Table 200. REPT BATTERO Competitive Strengths & Weaknesses
- Table 201. Global Key Players of Li-Ion Battery Upstream (Raw Materials)
- Table 202. Global Li-Ion Battery Typical Customers
- Table 203. Li-Ion Battery Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Li-Ion Battery Picture

Figure 2. World Li-Ion Battery Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Li-Ion Battery Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Li-Ion Battery Production (2021-2032) & (KWh)

Figure 5. World Li-Ion Battery Average Price (2021-2032) & (US\$/KWh)

Figure 6. World Li-Ion Battery Production Value Market Share by Region (2021-2032)

Figure 7. World Li-Ion Battery Production Market Share by Region (2021-2032)

Figure 8. North America Li-Ion Battery Production (2021-2032) & (KWh)

Figure 9. Europe Li-Ion Battery Production (2021-2032) & (KWh)

Figure 10. China Li-Ion Battery Production (2021-2032) & (KWh)

Figure 11. Japan Li-Ion Battery Production (2021-2032) & (KWh)

Figure 12. Li-Ion Battery Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Li-Ion Battery Consumption (2021-2032) & (KWh)

Figure 15. World Li-Ion Battery Consumption Market Share by Region (2021-2032)

Figure 16. United States Li-Ion Battery Consumption (2021-2032) & (KWh)

Figure 17. China Li-Ion Battery Consumption (2021-2032) & (KWh)

Figure 18. Europe Li-Ion Battery Consumption (2021-2032) & (KWh)

Figure 19. Japan Li-Ion Battery Consumption (2021-2032) & (KWh)

Figure 20. South Korea Li-Ion Battery Consumption (2021-2032) & (KWh)

Figure 21. ASEAN Li-Ion Battery Consumption (2021-2032) & (KWh)

Figure 22. India Li-Ion Battery Consumption (2021-2032) & (KWh)

Figure 23. Producer Shipments of Li-Ion Battery by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Li-Ion Battery Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Li-Ion Battery Markets in 2025

Figure 26. United States VS China: Li-Ion Battery Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Li-Ion Battery Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Li-Ion Battery Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Li-Ion Battery Production Market Share 2025

Figure 30. China Based Manufacturers Li-Ion Battery Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Li-Ion Battery Production Market Share 2025

Figure 32. World Li-Ion Battery Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Li-Ion Battery Production Value Market Share by Type in 2025

Figure 34. Lithium Iron Phosphate Batteries

Figure 35. Ternary Lithium Batteries

Figure 36. Others

Figure 37. World Li-Ion Battery Production Market Share by Type (2021-2032)

Figure 38. World Li-Ion Battery Production Value Market Share by Type (2021-2032)

Figure 39. World Li-Ion Battery Average Price by Type (2021-2032) & (US\$/KWh)

Figure 40. World Li-Ion Battery Production Value by Structural Form, (USD Million), 2021 & 2025 & 2032

Figure 41. World Li-Ion Battery Production Value Market Share by Structural Form in 2025

Figure 42. Cylindrical

Figure 43. Prismatic

Figure 44. Pouch

Figure 45. World Li-Ion Battery Production Market Share by Structural Form (2021-2032)

Figure 46. World Li-Ion Battery Production Value Market Share by Structural Form (2021-2032)

Figure 47. World Li-Ion Battery Average Price by Structural Form (2021-2032) & (US\$/KWh)

Figure 48. World Li-Ion Battery Production Value by Cobalt Content, (USD Million), 2021 & 2025 & 2032

Figure 49. World Li-Ion Battery Production Value Market Share by Cobalt Content in 2025

Figure 50. Cobalt-Containing Batteries

Figure 51. Cobalt-Free Batteries

Figure 52. World Li-Ion Battery Production Market Share by Cobalt Content (2021-2032)

Figure 53. World Li-Ion Battery Production Value Market Share by Cobalt Content (2021-2032)

Figure 54. World Li-Ion Battery Average Price by Cobalt Content (2021-2032) & (US\$/KWh)

Figure 55. World Li-Ion Battery Production Value by Application, (USD Million), 2021 &

2025 & 2032

Figure 56. World Li-Ion Battery Production Value Market Share by Application in 2025

Figure 57. Automotive

Figure 58. Consumer Electronics

Figure 59. Energy Storage

Figure 60. Other

Figure 61. World Li-Ion Battery Production Market Share by Application (2021-2032)

Figure 62. World Li-Ion Battery Production Value Market Share by Application (2021-2032)

Figure 63. World Li-Ion Battery Average Price by Application (2021-2032) & (US\$/KWh)

Figure 64. Li-Ion Battery Industry Chain

Figure 65. Li-Ion Battery Procurement Model

Figure 66. Li-Ion Battery Sales Model

Figure 67. Li-Ion Battery Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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