

Global Battery Pack Modules Market for EVs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery Pack Modules Market for EVs 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).

Battery Pack Modules (BPCs) for EVs consist of multiple battery cells connected in series or parallel, along with end plates, side plates, busbars, sampling harnesses, insulation components, mounting structures, thermally conductive materials, and temperature/voltage acquisition components. Their primary function is to integrate individual battery cells into standardized units with specific voltage, capacity, and mechanical strength. Battery modules not only provide electrical connection and structural fixation but also influence the battery system's safety, thermal management efficiency, ease of maintenance, manufacturing consistency, and space utilization. Global shipments are projected to reach 1495.1 GWh in 2025, with approximately 1,187 GWh installed in vehicles.

The global new energy vehicle industry continues to evolve towards higher range, higher safety, higher integration, and platformization. With the growth in pure electric vehicle sales, rapid iteration of vehicle platforms, and continuous improvement in battery system integration, the battery module market is facing a new stage of product structure upgrades, manufacturing process optimization, and deeper supply chain collaboration.

From a market demand perspective, electric vehicles are placing higher demands on range, fast charging capabilities, safety and reliability, low-temperature performance, and overall vehicle cost, driving continuous optimization of battery modules in terms of structural design, thermal management, connection methods, assembly efficiency, and

safety protection. Traditional modular solutions, characterized by convenient maintenance, high standardization, and strong manufacturing flexibility, are still widely used in various vehicle platforms. Meanwhile, the development of highly integrated solutions such as CTP, CTC, blade batteries, and large cylindrical battery packs is reshaping the application boundaries and technological routes of battery modules.

From a technological trend perspective, battery modules are evolving towards lightweight, high strength, high space utilization, and high safety. The importance of supporting components such as end plates, side plates, busbars, sampling harnesses, connecting pieces, insulation components, fixing components, thermally conductive materials, and thermal insulation materials continues to increase. In terms of thermal management, liquid cooling plates, thermally conductive adhesives, phase change materials, thermal insulation pads, and thermal runaway protection structures have become key areas for companies to improve battery safety and performance stability. With the increasing demand for high-voltage fast charging and high-rate discharging, the reliability of internal electrical connections, temperature consistency, and structural stability will become crucial indicators of product competitiveness.

From an industry chain perspective, the electric vehicle battery module market is highly correlated with cell manufacturing, battery pack integration, BMS, thermal management systems, structural components, insulation materials, automated assembly equipment, and testing equipment. Power battery companies and OEMs need to collaborate on development based on different vehicle platforms, range targets, spatial layouts, collision safety standards, fast charging requirements, and cost constraints. In the future, companies with module design capabilities, automated manufacturing capabilities, quality consistency control capabilities, and system integration experience will gain a stronger competitive advantage in the market.

From a competitive landscape perspective, leading power battery companies hold a strong market position due to their advantages in cell supply, module design, battery pack integration, and customer resources; some specialized module manufacturers, structural component suppliers, and system integrators are also forming differentiated competition in niche markets. As OEMs strengthen their self-developed battery systems, the battery module supply chain will exhibit a development pattern of 'battery manufacturers leading, OEMs deeply involved, and component suppliers providing collaborative support.' Future market competition will no longer be limited to price, but will focus more on safety verification, manufacturing yield, structural integration, thermal management efficiency, supply stability, and lifecycle value.

This report studies the global Battery Pack Modules Market for EVs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Pack Modules Market for EVs total production and demand, 2021-2032, (GWh)

Global Battery Pack Modules Market for EVs total production value, 2021-2032, (USD Million)

Global Battery Pack Modules Market for EVs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (GWh), (based on production site)

Global Battery Pack Modules Market for EVs consumption by region & country, CAGR, 2021-2032 & (GWh)

U.S. VS China: Battery Pack Modules Market for EVs domestic production, consumption, key domestic manufacturers and share

Global Battery Pack Modules Market for EVs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (GWh)

Global Battery Pack Modules Market for EVs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (GWh)

Global Battery Pack Modules Market for EVs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (GWh)

This report profiles key players in the global Battery Pack Modules Market for EVs 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, Guoxuan High-tech, Samsung SDI, SK On, CALB Group, EVE Energy, Sunwoda, Farasis Energy, 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 Battery Pack Modules Market for EVs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (GWh) 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 Battery Pack Modules Market for EVs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Battery Pack Modules Market for EVs Market, Segmentation by Type:

LFP Battery

NCx Batteries

Others

Global Battery Pack Modules Market for EVs Market, Segmentation by Form:

Cylindrical Battery

Primitive Battery

Pouch Battery

Global Battery Pack Modules Market for EVs Market, Segmentation by Charge Rate:

2C Fast Charging Battery

4C Fast Charging Battery

5C+ Ultra-fast Charging Battery

Global Battery Pack Modules Market for EVs Market, Segmentation by Application:

Passenger Car

Commercial Vehicles

Companies Profiled:

CATL

BYD

LG Energy Solution

Guoxuan High-tech

Samsung SDI

SK On

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

Panasonic

Key Questions Answered:

1. How big is the global Battery Pack Modules Market for EVs market?
2. What is the demand of the global Battery Pack Modules Market for EVs market?
3. What is the year over year growth of the global Battery Pack Modules Market for EVs market?
4. What is the production and production value of the global Battery Pack Modules Market for EVs market?
5. Who are the key producers in the global Battery Pack Modules Market for EVs market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Battery Pack Modules Market for EVs Demand (2021-2032)
- 2.2 World Battery Pack Modules Market for EVs Consumption by Region
 - 2.2.1 World Battery Pack Modules Market for EVs Consumption by Region (2021-2026)
 - 2.2.2 World Battery Pack Modules Market for EVs Consumption Forecast by Region (2027-2032)
- 2.3 United States Battery Pack Modules Market for EVs Consumption (2021-2032)
- 2.4 China Battery Pack Modules Market for EVs Consumption (2021-2032)
- 2.5 Europe Battery Pack Modules Market for EVs Consumption (2021-2032)

- 2.6 Japan Battery Pack Modules Market for EVs Consumption (2021-2032)
- 2.7 South Korea Battery Pack Modules Market for EVs Consumption (2021-2032)
- 2.8 ASEAN Battery Pack Modules Market for EVs Consumption (2021-2032)
- 2.9 India Battery Pack Modules Market for EVs Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Battery Pack Modules Market for EVs Production Value by Manufacturer (2021-2026)
- 3.2 World Battery Pack Modules Market for EVs Production by Manufacturer (2021-2026)
- 3.3 World Battery Pack Modules Market for EVs Average Price by Manufacturer (2021-2026)
- 3.4 Battery Pack Modules Market for EVs Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Battery Pack Modules Market for EVs Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Battery Pack Modules Market for EVs in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Battery Pack Modules Market for EVs in 2025
- 3.6 Battery Pack Modules Market for EVs Market: Overall Company Footprint Analysis
 - 3.6.1 Battery Pack Modules Market for EVs Market: Region Footprint
 - 3.6.2 Battery Pack Modules Market for EVs Market: Company Product Type Footprint
 - 3.6.3 Battery Pack Modules Market for EVs 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: Battery Pack Modules Market for EVs Production Value Comparison
 - 4.1.1 United States VS China: Battery Pack Modules Market for EVs Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Battery Pack Modules Market for EVs Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Battery Pack Modules Market for EVs Production Comparison

4.2.1 United States VS China: Battery Pack Modules Market for EVs Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Battery Pack Modules Market for EVs Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Battery Pack Modules Market for EVs Consumption Comparison

4.3.1 United States VS China: Battery Pack Modules Market for EVs Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Battery Pack Modules Market for EVs Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Battery Pack Modules Market for EVs Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Battery Pack Modules Market for EVs Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Battery Pack Modules Market for EVs Production Value (2021-2026)

4.4.3 United States Based Manufacturers Battery Pack Modules Market for EVs Production (2021-2026)

4.5 China Based Battery Pack Modules Market for EVs Manufacturers and Market Share

4.5.1 China Based Battery Pack Modules Market for EVs Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Battery Pack Modules Market for EVs Production Value (2021-2026)

4.5.3 China Based Manufacturers Battery Pack Modules Market for EVs Production (2021-2026)

4.6 Rest of World Based Battery Pack Modules Market for EVs Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Battery Pack Modules Market for EVs Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Battery Pack Modules Market for EVs Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Battery Pack Modules Market for EVs Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs Production by Type (2021-2032)

5.3.2 World Battery Pack Modules Market for EVs Production Value by Type (2021-2032)

5.3.3 World Battery Pack Modules Market for EVs Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FORM

6.1 World Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs Production by Form (2021-2032)

6.3.2 World Battery Pack Modules Market for EVs Production Value by Form (2021-2032)

6.3.3 World Battery Pack Modules Market for EVs Average Price by Form (2021-2032)

7 MARKET ANALYSIS BY CHARGE RATE

7.1 World Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs Production by Charge Rate (2021-2032)

7.3.2 World Battery Pack Modules Market for EVs Production Value by Charge Rate (2021-2032)

7.3.3 World Battery Pack Modules Market for EVs Average Price by Charge Rate (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Battery Pack Modules Market for EVs Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Car

8.2.2 Commercial Vehicles

8.3 Market Segment by Application

8.3.1 World Battery Pack Modules Market for EVs Production by Application (2021-2032)

8.3.2 World Battery Pack Modules Market for EVs Production Value by Application (2021-2032)

8.3.3 World Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs Product and Services

9.1.4 CATL Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs Product and Services

9.2.4 BYD Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs Product and Services
- 9.3.4 LG Energy Solution Battery Pack Modules Market for EVs 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 Guoxuan High-tech
 - 9.4.1 Guoxuan High-tech Details
 - 9.4.2 Guoxuan High-tech Major Business
 - 9.4.3 Guoxuan High-tech Battery Pack Modules Market for EVs Product and Services
 - 9.4.4 Guoxuan High-tech Battery Pack Modules Market for EVs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Guoxuan High-tech Recent Developments/Updates
 - 9.4.6 Guoxuan High-tech 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 Battery Pack Modules Market for EVs Product and Services
 - 9.5.4 Samsung SDI Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs Product and Services
 - 9.6.4 SK On Battery Pack Modules Market for EVs 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 CALB Group
 - 9.7.1 CALB Group Details
 - 9.7.2 CALB Group Major Business
 - 9.7.3 CALB Group Battery Pack Modules Market for EVs Product and Services
 - 9.7.4 CALB Group Battery Pack Modules Market for EVs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 CALB Group Recent Developments/Updates
 - 9.7.6 CALB Group Competitive Strengths & Weaknesses

9.8 EVE Energy

9.8.1 EVE Energy Details

9.8.2 EVE Energy Major Business

9.8.3 EVE Energy Battery Pack Modules Market for EVs Product and Services

9.8.4 EVE Energy Battery Pack Modules Market for EVs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 EVE Energy Recent Developments/Updates

9.8.6 EVE Energy Competitive Strengths & Weaknesses

9.9 Sunwoda

9.9.1 Sunwoda Details

9.9.2 Sunwoda Major Business

9.9.3 Sunwoda Battery Pack Modules Market for EVs Product and Services

9.9.4 Sunwoda Battery Pack Modules Market for EVs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Sunwoda Recent Developments/Updates

9.9.6 Sunwoda Competitive Strengths & Weaknesses

9.10 Farasis Energy

9.10.1 Farasis Energy Details

9.10.2 Farasis Energy Major Business

9.10.3 Farasis Energy Battery Pack Modules Market for EVs Product and Services

9.10.4 Farasis Energy Battery Pack Modules Market for EVs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Farasis Energy Recent Developments/Updates

9.10.6 Farasis Energy Competitive Strengths & Weaknesses

9.11 SVOLT Energy Technology

9.11.1 SVOLT Energy Technology Details

9.11.2 SVOLT Energy Technology Major Business

9.11.3 SVOLT Energy Technology Battery Pack Modules Market for EVs Product and Services

9.11.4 SVOLT Energy Technology Battery Pack Modules Market for EVs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 SVOLT Energy Technology Recent Developments/Updates

9.11.6 SVOLT Energy Technology Competitive Strengths & Weaknesses

9.12 REPT BATTERO Energy

9.12.1 REPT BATTERO Energy Details

9.12.2 REPT BATTERO Energy Major Business

9.12.3 REPT BATTERO Energy Battery Pack Modules Market for EVs Product and Services

9.12.4 REPT BATTERO Energy Battery Pack Modules Market for EVs Production,

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

9.12.5 REPT BATTERO Energy Recent Developments/Updates

9.12.6 REPT BATTERO Energy Competitive Strengths & Weaknesses

9.13 Tianjin EV Energies

9.13.1 Tianjin EV Energies Details

9.13.2 Tianjin EV Energies Major Business

9.13.3 Tianjin EV Energies Battery Pack Modules Market for EVs Product and Services

9.13.4 Tianjin EV Energies Battery Pack Modules Market for EVs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Tianjin EV Energies Recent Developments/Updates

9.13.6 Tianjin EV Energies Competitive Strengths & Weaknesses

9.14 Do-Fluoride New Materials

9.14.1 Do-Fluoride New Materials Details

9.14.2 Do-Fluoride New Materials Major Business

9.14.3 Do-Fluoride New Materials Battery Pack Modules Market for EVs Product and Services

9.14.4 Do-Fluoride New Materials Battery Pack Modules Market for EVs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Do-Fluoride New Materials Recent Developments/Updates

9.14.6 Do-Fluoride New Materials Competitive Strengths & Weaknesses

9.15 Inpai Battery

9.15.1 Inpai Battery Details

9.15.2 Inpai Battery Major Business

9.15.3 Inpai Battery Battery Pack Modules Market for EVs Product and Services

9.15.4 Inpai Battery Battery Pack Modules Market for EVs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Inpai Battery Recent Developments/Updates

9.15.6 Inpai Battery Competitive Strengths & Weaknesses

9.16 Cornex New Energy

9.16.1 Cornex New Energy Details

9.16.2 Cornex New Energy Major Business

9.16.3 Cornex New Energy Battery Pack Modules Market for EVs Product and Services

9.16.4 Cornex New Energy Battery Pack Modules Market for EVs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Cornex New Energy Recent Developments/Updates

9.16.6 Cornex New Energy Competitive Strengths & Weaknesses

9.17 Panasonic

- 9.17.1 Panasonic Details
- 9.17.2 Panasonic Major Business
- 9.17.3 Panasonic Battery Pack Modules Market for EVs Product and Services
- 9.17.4 Panasonic Battery Pack Modules Market for EVs Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 Panasonic Recent Developments/Updates
- 9.17.6 Panasonic Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

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

Table 2. World Battery Pack Modules Market for EVs Production Value by Region (2021-2026) & (USD Million)

Table 3. World Battery Pack Modules Market for EVs Production Value by Region (2027-2032) & (USD Million)

Table 4. World Battery Pack Modules Market for EVs Production Value Market Share by Region (2021-2026)

Table 5. World Battery Pack Modules Market for EVs Production Value Market Share by Region (2027-2032)

Table 6. World Battery Pack Modules Market for EVs Production by Region (2021-2026) & (GWh)

Table 7. World Battery Pack Modules Market for EVs Production by Region (2027-2032) & (GWh)

Table 8. World Battery Pack Modules Market for EVs Production Market Share by Region (2021-2026)

Table 9. World Battery Pack Modules Market for EVs Production Market Share by Region (2027-2032)

Table 10. World Battery Pack Modules Market for EVs Average Price by Region (2021-2026) & (US\$/KWh)

Table 11. World Battery Pack Modules Market for EVs Average Price by Region (2027-2032) & (US\$/KWh)

Table 12. Battery Pack Modules Market for EVs Major Market Trends

Table 13. World Battery Pack Modules Market for EVs Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (GWh)

Table 14. World Battery Pack Modules Market for EVs Consumption by Region (2021-2026) & (GWh)

Table 15. World Battery Pack Modules Market for EVs Consumption Forecast by Region (2027-2032) & (GWh)

Table 16. World Battery Pack Modules Market for EVs Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Battery Pack Modules Market for EVs Producers in 2025

Table 18. World Battery Pack Modules Market for EVs Production by Manufacturer (2021-2026) & (GWh)

Table 19. Production Market Share of Key Battery Pack Modules Market for EVs Producers in 2025

Table 20. World Battery Pack Modules Market for EVs Average Price by Manufacturer (2021-2026) & (US\$/KWh)

Table 21. Global Battery Pack Modules Market for EVs Company Evaluation Quadrant

Table 22. World Battery Pack Modules Market for EVs Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Battery Pack Modules Market for EVs Production Site of Key Manufacturer

Table 24. Battery Pack Modules Market for EVs Market: Company Product Type Footprint

Table 25. Battery Pack Modules Market for EVs Market: Company Product Application Footprint

Table 26. Battery Pack Modules Market for EVs Competitive Factors

Table 27. Battery Pack Modules Market for EVs New Entrant and Capacity Expansion Plans

Table 28. Battery Pack Modules Market for EVs Mergers & Acquisitions Activity

Table 29. United States VS China Battery Pack Modules Market for EVs Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Battery Pack Modules Market for EVs Production Comparison, (2021 & 2025 & 2032) & (GWh)

Table 31. United States VS China Battery Pack Modules Market for EVs Consumption Comparison, (2021 & 2025 & 2032) & (GWh)

Table 32. United States Based Battery Pack Modules Market for EVs Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Battery Pack Modules Market for EVs Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Battery Pack Modules Market for EVs Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Battery Pack Modules Market for EVs Production (2021-2026) & (GWh)

Table 36. United States Based Manufacturers Battery Pack Modules Market for EVs Production Market Share (2021-2026)

Table 37. China Based Battery Pack Modules Market for EVs Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Battery Pack Modules Market for EVs Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Battery Pack Modules Market for EVs Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Battery Pack Modules Market for EVs Production, (2021-2026) & (GWh)
Table 41. China Based Manufacturers Battery Pack Modules Market for EVs Production Market Share (2021-2026)
Table 42. Rest of World Based Battery Pack Modules Market for EVs Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Battery Pack Modules Market for EVs Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Battery Pack Modules Market for EVs Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Battery Pack Modules Market for EVs Production, (2021-2026) & (GWh)
Table 46. Rest of World Based Manufacturers Battery Pack Modules Market for EVs Production Market Share (2021-2026)
Table 47. World Battery Pack Modules Market for EVs Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Battery Pack Modules Market for EVs Production by Type (2021-2026) & (GWh)
Table 49. World Battery Pack Modules Market for EVs Production by Type (2027-2032) & (GWh)
Table 50. World Battery Pack Modules Market for EVs Production Value by Type (2021-2026) & (USD Million)
Table 51. World Battery Pack Modules Market for EVs Production Value by Type (2027-2032) & (USD Million)
Table 52. World Battery Pack Modules Market for EVs Average Price by Type (2021-2026) & (US\$/KWh)
Table 53. World Battery Pack Modules Market for EVs Average Price by Type (2027-2032) & (US\$/KWh)
Table 54. World Battery Pack Modules Market for EVs Production Value by Form, (USD Million), 2021 & 2025 & 2032
Table 55. World Battery Pack Modules Market for EVs Production by Form (2021-2026) & (GWh)
Table 56. World Battery Pack Modules Market for EVs Production by Form (2027-2032) & (GWh)
Table 57. World Battery Pack Modules Market for EVs Production Value by Form (2021-2026) & (USD Million)
Table 58. World Battery Pack Modules Market for EVs Production Value by Form (2027-2032) & (USD Million)
Table 59. World Battery Pack Modules Market for EVs Average Price by Form

(2021-2026) & (US\$/KWh)

Table 60. World Battery Pack Modules Market for EVs Average Price by Form

(2027-2032) & (US\$/KWh)

Table 61. World Battery Pack Modules Market for EVs Production Value by Charge Rate, (USD Million), 2021 & 2025 & 2032

Table 62. World Battery Pack Modules Market for EVs Production by Charge Rate (2021-2026) & (GWh)

Table 63. World Battery Pack Modules Market for EVs Production by Charge Rate (2027-2032) & (GWh)

Table 64. World Battery Pack Modules Market for EVs Production Value by Charge Rate (2021-2026) & (USD Million)

Table 65. World Battery Pack Modules Market for EVs Production Value by Charge Rate (2027-2032) & (USD Million)

Table 66. World Battery Pack Modules Market for EVs Average Price by Charge Rate (2021-2026) & (US\$/KWh)

Table 67. World Battery Pack Modules Market for EVs Average Price by Charge Rate (2027-2032) & (US\$/KWh)

Table 68. World Battery Pack Modules Market for EVs Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Battery Pack Modules Market for EVs Production by Application (2021-2026) & (GWh)

Table 70. World Battery Pack Modules Market for EVs Production by Application (2027-2032) & (GWh)

Table 71. World Battery Pack Modules Market for EVs Production Value by Application (2021-2026) & (USD Million)

Table 72. World Battery Pack Modules Market for EVs Production Value by Application (2027-2032) & (USD Million)

Table 73. World Battery Pack Modules Market for EVs Average Price by Application (2021-2026) & (US\$/KWh)

Table 74. World Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs Product and Services

Table 78. CATL Battery Pack Modules Market for EVs Production (GWh), 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 Battery Pack Modules Market for EVs Product and Services

Table 84. BYD Battery Pack Modules Market for EVs Production (GWh), 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 Battery Pack Modules Market for EVs Product and Services

Table 90. LG Energy Solution Battery Pack Modules Market for EVs Production (GWh), 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. Guoxuan High-tech Basic Information, Manufacturing Base and Competitors

Table 94. Guoxuan High-tech Major Business

Table 95. Guoxuan High-tech Battery Pack Modules Market for EVs Product and Services

Table 96. Guoxuan High-tech Battery Pack Modules Market for EVs Production (GWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Guoxuan High-tech Recent Developments/Updates

Table 98. Guoxuan High-tech Competitive Strengths & Weaknesses

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

Table 100. Samsung SDI Major Business

Table 101. Samsung SDI Battery Pack Modules Market for EVs Product and Services

Table 102. Samsung SDI Battery Pack Modules Market for EVs Production (GWh), 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 Battery Pack Modules Market for EVs Product and Services

Table 108. SK On Battery Pack Modules Market for EVs Production (GWh), 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. CALB Group Basic Information, Manufacturing Base and Competitors

Table 112. CALB Group Major Business

Table 113. CALB Group Battery Pack Modules Market for EVs Product and Services

Table 114. CALB Group Battery Pack Modules Market for EVs Production (GWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 115. CALB Group Recent Developments/Updates

Table 116. CALB Group Competitive Strengths & Weaknesses

Table 117. EVE Energy Basic Information, Manufacturing Base and Competitors

Table 118. EVE Energy Major Business

Table 119. EVE Energy Battery Pack Modules Market for EVs Product and Services

Table 120. EVE Energy Battery Pack Modules Market for EVs Production (GWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 121. EVE Energy Recent Developments/Updates

Table 122. EVE Energy Competitive Strengths & Weaknesses

Table 123. Sunwoda Basic Information, Manufacturing Base and Competitors

Table 124. Sunwoda Major Business

Table 125. Sunwoda Battery Pack Modules Market for EVs Product and Services

Table 126. Sunwoda Battery Pack Modules Market for EVs Production (GWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 127. Sunwoda Recent Developments/Updates

Table 128. Sunwoda Competitive Strengths & Weaknesses

Table 129. Farasis Energy Basic Information, Manufacturing Base and Competitors

Table 130. Farasis Energy Major Business

Table 131. Farasis Energy Battery Pack Modules Market for EVs Product and Services

Table 132. Farasis Energy Battery Pack Modules Market for EVs Production (GWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 133. Farasis Energy Recent Developments/Updates

Table 134. Farasis Energy Competitive Strengths & Weaknesses

Table 135. SVOLT Energy Technology Basic Information, Manufacturing Base and Competitors

Table 136. SVOLT Energy Technology Major Business

Table 137. SVOLT Energy Technology Battery Pack Modules Market for EVs Product

and Services

Table 138. SVOLT Energy Technology Battery Pack Modules Market for EVs Production (GWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. SVOLT Energy Technology Recent Developments/Updates

Table 140. SVOLT Energy Technology Competitive Strengths & Weaknesses

Table 141. REPT BATTERO Energy Basic Information, Manufacturing Base and Competitors

Table 142. REPT BATTERO Energy Major Business

Table 143. REPT BATTERO Energy Battery Pack Modules Market for EVs Product and Services

Table 144. REPT BATTERO Energy Battery Pack Modules Market for EVs Production (GWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. REPT BATTERO Energy Recent Developments/Updates

Table 146. REPT BATTERO Energy Competitive Strengths & Weaknesses

Table 147. Tianjin EV Energies Basic Information, Manufacturing Base and Competitors

Table 148. Tianjin EV Energies Major Business

Table 149. Tianjin EV Energies Battery Pack Modules Market for EVs Product and Services

Table 150. Tianjin EV Energies Battery Pack Modules Market for EVs Production (GWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Tianjin EV Energies Recent Developments/Updates

Table 152. Tianjin EV Energies Competitive Strengths & Weaknesses

Table 153. Do-Fluoride New Materials Basic Information, Manufacturing Base and Competitors

Table 154. Do-Fluoride New Materials Major Business

Table 155. Do-Fluoride New Materials Battery Pack Modules Market for EVs Product and Services

Table 156. Do-Fluoride New Materials Battery Pack Modules Market for EVs Production (GWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Do-Fluoride New Materials Recent Developments/Updates

Table 158. Do-Fluoride New Materials Competitive Strengths & Weaknesses

Table 159. Inpai Battery Basic Information, Manufacturing Base and Competitors

Table 160. Inpai Battery Major Business

Table 161. Inpai Battery Battery Pack Modules Market for EVs Product and Services

Table 162. Inpai Battery Battery Pack Modules Market for EVs Production (GWh), Price

(US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Inpai Battery Recent Developments/Updates

Table 164. Inpai Battery Competitive Strengths & Weaknesses

Table 165. Cornex New Energy Basic Information, Manufacturing Base and Competitors

Table 166. Cornex New Energy Major Business

Table 167. Cornex New Energy Battery Pack Modules Market for EVs Product and Services

Table 168. Cornex New Energy Battery Pack Modules Market for EVs Production (GWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Cornex New Energy Recent Developments/Updates

Table 170. Cornex New Energy Competitive Strengths & Weaknesses

Table 171. Panasonic Basic Information, Manufacturing Base and Competitors

Table 172. Panasonic Major Business

Table 173. Panasonic Battery Pack Modules Market for EVs Product and Services

Table 174. Panasonic Battery Pack Modules Market for EVs Production (GWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Panasonic Recent Developments/Updates

Table 176. Panasonic Competitive Strengths & Weaknesses

Table 177. Global Key Players of Battery Pack Modules Market for EVs Upstream (Raw Materials)

Table 178. Global Battery Pack Modules Market for EVs Typical Customers

Table 179. Battery Pack Modules Market for EVs Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Battery Pack Modules Market for EVs Picture
- Figure 2. World Battery Pack Modules Market for EVs Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Battery Pack Modules Market for EVs Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Battery Pack Modules Market for EVs Production (2021-2032) & (GWh)
- Figure 5. World Battery Pack Modules Market for EVs Average Price (2021-2032) & (US\$/KWh)
- Figure 6. World Battery Pack Modules Market for EVs Production Value Market Share by Region (2021-2032)
- Figure 7. World Battery Pack Modules Market for EVs Production Market Share by Region (2021-2032)
- Figure 8. North America Battery Pack Modules Market for EVs Production (2021-2032) & (GWh)
- Figure 9. Europe Battery Pack Modules Market for EVs Production (2021-2032) & (GWh)
- Figure 10. China Battery Pack Modules Market for EVs Production (2021-2032) & (GWh)
- Figure 11. Japan Battery Pack Modules Market for EVs Production (2021-2032) & (GWh)
- Figure 12. South Korea Battery Pack Modules Market for EVs Production (2021-2032) & (GWh)
- Figure 13. India Battery Pack Modules Market for EVs Production (2021-2032) & (GWh)
- Figure 14. Battery Pack Modules Market for EVs Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World Battery Pack Modules Market for EVs Consumption (2021-2032) & (GWh)
- Figure 17. World Battery Pack Modules Market for EVs Consumption Market Share by Region (2021-2032)
- Figure 18. United States Battery Pack Modules Market for EVs Consumption (2021-2032) & (GWh)
- Figure 19. China Battery Pack Modules Market for EVs Consumption (2021-2032) & (GWh)
- Figure 20. Europe Battery Pack Modules Market for EVs Consumption (2021-2032) & (GWh)

Figure 21. Japan Battery Pack Modules Market for EVs Consumption (2021-2032) & (GWh)

Figure 22. South Korea Battery Pack Modules Market for EVs Consumption (2021-2032) & (GWh)

Figure 23. ASEAN Battery Pack Modules Market for EVs Consumption (2021-2032) & (GWh)

Figure 24. India Battery Pack Modules Market for EVs Consumption (2021-2032) & (GWh)

Figure 25. Producer Shipments of Battery Pack Modules Market for EVs by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Battery Pack Modules Market for EVs Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Battery Pack Modules Market for EVs Markets in 2025

Figure 28. United States VS China: Battery Pack Modules Market for EVs Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Battery Pack Modules Market for EVs Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Battery Pack Modules Market for EVs Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Battery Pack Modules Market for EVs Production Market Share 2025

Figure 32. China Based Manufacturers Battery Pack Modules Market for EVs Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Battery Pack Modules Market for EVs Production Market Share 2025

Figure 34. World Battery Pack Modules Market for EVs Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Battery Pack Modules Market for EVs Production Value Market Share by Type in 2025

Figure 36. LFP Battery

Figure 37. NCx Batteries

Figure 38. Others

Figure 39. World Battery Pack Modules Market for EVs Production Market Share by Type (2021-2032)

Figure 40. World Battery Pack Modules Market for EVs Production Value Market Share by Type (2021-2032)

Figure 41. World Battery Pack Modules Market for EVs Average Price by Type (2021-2032) & (US\$/KWh)

Figure 42. World Battery Pack Modules Market for EVs Production Value by Form, (USD Million), 2021 & 2025 & 2032

Figure 43. World Battery Pack Modules Market for EVs Production Value Market Share by Form in 2025

Figure 44. Cylindrical Battery

Figure 45. Primitive Battery

Figure 46. Pouch Battery

Figure 47. World Battery Pack Modules Market for EVs Production Market Share by Form (2021-2032)

Figure 48. World Battery Pack Modules Market for EVs Production Value Market Share by Form (2021-2032)

Figure 49. World Battery Pack Modules Market for EVs Average Price by Form (2021-2032) & (US\$/KWh)

Figure 50. World Battery Pack Modules Market for EVs Production Value by Charge Rate, (USD Million), 2021 & 2025 & 2032

Figure 51. World Battery Pack Modules Market for EVs 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 Battery Pack Modules Market for EVs Production Market Share by Charge Rate (2021-2032)

Figure 56. World Battery Pack Modules Market for EVs Production Value Market Share by Charge Rate (2021-2032)

Figure 57. World Battery Pack Modules Market for EVs Average Price by Charge Rate (2021-2032) & (US\$/KWh)

Figure 58. World Battery Pack Modules Market for EVs Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Battery Pack Modules Market for EVs Production Value Market Share by Application in 2025

Figure 60. Passenger Car

Figure 61. Commercial Vehicles

Figure 62. World Battery Pack Modules Market for EVs Production Market Share by Application (2021-2032)

Figure 63. World Battery Pack Modules Market for EVs Production Value Market Share by Application (2021-2032)

Figure 64. World Battery Pack Modules Market for EVs Average Price by Application (2021-2032) & (US\$/KWh)

Figure 65. Battery Pack Modules Market for EVs Industry Chain

Figure 66. Battery Pack Modules Market for EVs Procurement Model

Figure 67. Battery Pack Modules Market for EVs Sales Model

Figure 68. Battery Pack Modules Market for EVs Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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