

Global High-Performance Lithium-Ion Battery Pack Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global High-Performance Lithium-Ion Battery Pack market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

High performance lithium-ion battery pack is a battery system that uses lithium ions as charge carriers. It consists of multiple lithium-ion battery units, connected in series or parallel to provide greater voltage and capacitance. High performance lithium-ion battery packs are commonly used as power sources in fields such as electric vehicles, portable electronic devices, and energy storage systems. High performance lithium-ion batteries have many advantages over traditional lead-acid batteries and Nickel–cadmium battery. Firstly, they have a higher energy density, which means they can store more energy in batteries of the same size, thereby extending the lifespan of the device. Secondly, they have a lower self discharge rate and can maintain a longer charge even when not in use. In addition, high-performance lithium-ion battery pack has a longer life and higher charging and discharging efficiency. The key components of high-performance lithium-ion battery packs are lithium-ion battery units, which include positive electrode materials, negative electrode materials, and electrolytes. Common positive electrode materials include lithium cobalt oxide, lithium nickel oxide, and lithium manganese oxide, while negative electrode materials typically use graphite. Electrolytes are the medium through which lithium ions are transported between positive and negative electrodes, and commonly used electrolytes are liquid electrolytes or polymer electrolytes. The design of high-performance lithium-ion battery pack also includes a Battery management system (BMS), which is used to monitor the status of the battery, balance the charge between battery cells, and ensure the safety and performance of the battery pack. The application of high-performance lithium-ion battery packs in fields such as electric vehicles and renewable energy storage is rapidly expanding. With the

progress and innovation of technology, people expect that high-performance lithium-ion battery packs in the future will have higher energy density, faster charging speed, and longer lifespan to meet the growing energy demand.

This report studies the global High-Performance Lithium-Ion Battery Pack production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-Performance Lithium-Ion Battery Pack, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of High-Performance Lithium-Ion Battery Pack that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-Performance Lithium-Ion Battery Pack total production and demand, 2018-2029, (MWh)

Global High-Performance Lithium-Ion Battery Pack total production value, 2018-2029, (USD Million)

Global High-Performance Lithium-Ion Battery Pack production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (MWh)

Global High-Performance Lithium-Ion Battery Pack consumption by region & country, CAGR, 2018-2029 & (MWh)

U.S. VS China: High-Performance Lithium-Ion Battery Pack domestic production, consumption, key domestic manufacturers and share

Global High-Performance Lithium-Ion Battery Pack production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (MWh)

Global High-Performance Lithium-Ion Battery Pack production by Type, production, value, CAGR, 2018-2029, (USD Million) & (MWh)

Global High-Performance Lithium-Ion Battery Pack production by Application production, value, CAGR, 2018-2029, (USD Million) & (MWh)

This reports profiles key players in the global High-Performance Lithium-Ion Battery Pack 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 Panasonic Corporation, LG Chem Ltd., Samsung SDI Co., Ltd., Tesla, Inc., BYD Company Limited, Contemporary Amperex Technology Co., Limited (CATL), A123 Systems LLC, GS Yuasa Corporation and Toshiba Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High-Performance Lithium-Ion Battery Pack market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MWh) and average price (US\$/Wh) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global High-Performance Lithium-Ion Battery Pack Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Performance Lithium-Ion Battery Pack Market, Segmentation by Type

Polymer Lithium-Ion Battery Pack

Lithium Cobalt Oxide Battery Pack

Lithium Iron Phosphate Battery Pack

Ternary Material Lithium-Ion Battery Pack

Global High-Performance Lithium-Ion Battery Pack Market, Segmentation by Application

Automobile Industry

Consumer Electronics Industry

Others

Companies Profiled:

Panasonic Corporation

LG Chem Ltd.

Samsung SDI Co., Ltd.

Tesla, Inc.

BYD Company Limited

Contemporary Amperex Technology Co., Limited (CATL)

A123 Systems LLC

GS Yuasa Corporation

Toshiba Corporation

EnerSys

Johnson Controls International plc

Saft Groupe S.A.

Hitachi Chemical Co., Ltd.

Kokam Co., Ltd.

NEC Energy Solutions

EVE Energy Co., Ltd.

Shenzhen BAK Battery Co., Ltd.

Key Questions Answered

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

Contents

1 SUPPLY SUMMARY

- 1.1 High-Performance Lithium-Ion Battery Pack Introduction
- 1.2 World High-Performance Lithium-Ion Battery Pack Supply & Forecast
 - 1.2.1 World High-Performance Lithium-Ion Battery Pack Production Value (2018 & 2022 & 2029)
 - 1.2.2 World High-Performance Lithium-Ion Battery Pack Production (2018-2029)
 - 1.2.3 World High-Performance Lithium-Ion Battery Pack Pricing Trends (2018-2029)
- 1.3 World High-Performance Lithium-Ion Battery Pack Production by Region (Based on Production Site)
 - 1.3.1 World High-Performance Lithium-Ion Battery Pack Production Value by Region (2018-2029)
 - 1.3.2 World High-Performance Lithium-Ion Battery Pack Production by Region (2018-2029)
 - 1.3.3 World High-Performance Lithium-Ion Battery Pack Average Price by Region (2018-2029)
 - 1.3.4 North America High-Performance Lithium-Ion Battery Pack Production (2018-2029)
 - 1.3.5 Europe High-Performance Lithium-Ion Battery Pack Production (2018-2029)
 - 1.3.6 China High-Performance Lithium-Ion Battery Pack Production (2018-2029)
 - 1.3.7 Japan High-Performance Lithium-Ion Battery Pack Production (2018-2029)
 - 1.3.8 South Korea High-Performance Lithium-Ion Battery Pack Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 High-Performance Lithium-Ion Battery Pack Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 High-Performance Lithium-Ion Battery Pack Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World High-Performance Lithium-Ion Battery Pack Demand (2018-2029)
- 2.2 World High-Performance Lithium-Ion Battery Pack Consumption by Region
 - 2.2.1 World High-Performance Lithium-Ion Battery Pack Consumption by Region (2018-2023)
 - 2.2.2 World High-Performance Lithium-Ion Battery Pack Consumption Forecast by

Region (2024-2029)

2.3 United States High-Performance Lithium-Ion Battery Pack Consumption (2018-2029)

2.4 China High-Performance Lithium-Ion Battery Pack Consumption (2018-2029)

2.5 Europe High-Performance Lithium-Ion Battery Pack Consumption (2018-2029)

2.6 Japan High-Performance Lithium-Ion Battery Pack Consumption (2018-2029)

2.7 South Korea High-Performance Lithium-Ion Battery Pack Consumption (2018-2029)

2.8 ASEAN High-Performance Lithium-Ion Battery Pack Consumption (2018-2029)

2.9 India High-Performance Lithium-Ion Battery Pack Consumption (2018-2029)

3 WORLD HIGH-PERFORMANCE LITHIUM-ION BATTERY PACK MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World High-Performance Lithium-Ion Battery Pack Production Value by Manufacturer (2018-2023)

3.2 World High-Performance Lithium-Ion Battery Pack Production by Manufacturer (2018-2023)

3.3 World High-Performance Lithium-Ion Battery Pack Average Price by Manufacturer (2018-2023)

3.4 High-Performance Lithium-Ion Battery Pack Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global High-Performance Lithium-Ion Battery Pack Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for High-Performance Lithium-Ion Battery Pack in 2022

3.5.3 Global Concentration Ratios (CR8) for High-Performance Lithium-Ion Battery Pack in 2022

3.6 High-Performance Lithium-Ion Battery Pack Market: Overall Company Footprint Analysis

3.6.1 High-Performance Lithium-Ion Battery Pack Market: Region Footprint

3.6.2 High-Performance Lithium-Ion Battery Pack Market: Company Product Type Footprint

3.6.3 High-Performance Lithium-Ion Battery Pack 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: High-Performance Lithium-Ion Battery Pack Production Value Comparison

4.1.1 United States VS China: High-Performance Lithium-Ion Battery Pack Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: High-Performance Lithium-Ion Battery Pack Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: High-Performance Lithium-Ion Battery Pack Production Comparison

4.2.1 United States VS China: High-Performance Lithium-Ion Battery Pack Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: High-Performance Lithium-Ion Battery Pack Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: High-Performance Lithium-Ion Battery Pack Consumption Comparison

4.3.1 United States VS China: High-Performance Lithium-Ion Battery Pack Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: High-Performance Lithium-Ion Battery Pack Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based High-Performance Lithium-Ion Battery Pack Manufacturers and Market Share, 2018-2023

4.4.1 United States Based High-Performance Lithium-Ion Battery Pack Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Value (2018-2023)

4.4.3 United States Based Manufacturers High-Performance Lithium-Ion Battery Pack Production (2018-2023)

4.5 China Based High-Performance Lithium-Ion Battery Pack Manufacturers and Market Share

4.5.1 China Based High-Performance Lithium-Ion Battery Pack Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Value (2018-2023)

4.5.3 China Based Manufacturers High-Performance Lithium-Ion Battery Pack Production (2018-2023)

4.6 Rest of World Based High-Performance Lithium-Ion Battery Pack Manufacturers

and Market Share, 2018-2023

4.6.1 Rest of World Based High-Performance Lithium-Ion Battery Pack Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers High-Performance Lithium-Ion Battery Pack Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World High-Performance Lithium-Ion Battery Pack Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Polymer Lithium-Ion Battery Pack

5.2.2 Lithium Cobalt Oxide Battery Pack

5.2.3 Lithium Iron Phosphate Battery Pack

5.2.4 Ternary Material Lithium-Ion Battery Pack

5.3 Market Segment by Type

5.3.1 World High-Performance Lithium-Ion Battery Pack Production by Type (2018-2029)

5.3.2 World High-Performance Lithium-Ion Battery Pack Production Value by Type (2018-2029)

5.3.3 World High-Performance Lithium-Ion Battery Pack Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World High-Performance Lithium-Ion Battery Pack Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Automobile Industry

6.2.2 Consumer Electronics Industry

6.2.3 Others

6.3 Market Segment by Application

6.3.1 World High-Performance Lithium-Ion Battery Pack Production by Application (2018-2029)

6.3.2 World High-Performance Lithium-Ion Battery Pack Production Value by Application (2018-2029)

6.3.3 World High-Performance Lithium-Ion Battery Pack Average Price by Application

(2018-2029)

7 COMPANY PROFILES

7.1 Panasonic Corporation

7.1.1 Panasonic Corporation Details

7.1.2 Panasonic Corporation Major Business

7.1.3 Panasonic Corporation High-Performance Lithium-Ion Battery Pack Product and Services

7.1.4 Panasonic Corporation High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Panasonic Corporation Recent Developments/Updates

7.1.6 Panasonic Corporation Competitive Strengths & Weaknesses

7.2 LG Chem Ltd.

7.2.1 LG Chem Ltd. Details

7.2.2 LG Chem Ltd. Major Business

7.2.3 LG Chem Ltd. High-Performance Lithium-Ion Battery Pack Product and Services

7.2.4 LG Chem Ltd. High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 LG Chem Ltd. Recent Developments/Updates

7.2.6 LG Chem Ltd. Competitive Strengths & Weaknesses

7.3 Samsung SDI Co., Ltd.

7.3.1 Samsung SDI Co., Ltd. Details

7.3.2 Samsung SDI Co., Ltd. Major Business

7.3.3 Samsung SDI Co., Ltd. High-Performance Lithium-Ion Battery Pack Product and Services

7.3.4 Samsung SDI Co., Ltd. High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 Samsung SDI Co., Ltd. Recent Developments/Updates

7.3.6 Samsung SDI Co., Ltd. Competitive Strengths & Weaknesses

7.4 Tesla, Inc.

7.4.1 Tesla, Inc. Details

7.4.2 Tesla, Inc. Major Business

7.4.3 Tesla, Inc. High-Performance Lithium-Ion Battery Pack Product and Services

7.4.4 Tesla, Inc. High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 Tesla, Inc. Recent Developments/Updates

7.4.6 Tesla, Inc. Competitive Strengths & Weaknesses

7.5 BYD Company Limited

- 7.5.1 BYD Company Limited Details
- 7.5.2 BYD Company Limited Major Business
- 7.5.3 BYD Company Limited High-Performance Lithium-Ion Battery Pack Product and Services
- 7.5.4 BYD Company Limited High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.5.5 BYD Company Limited Recent Developments/Updates
- 7.5.6 BYD Company Limited Competitive Strengths & Weaknesses
- 7.6 Contemporary Amperex Technology Co., Limited (CATL)
 - 7.6.1 Contemporary Amperex Technology Co., Limited (CATL) Details
 - 7.6.2 Contemporary Amperex Technology Co., Limited (CATL) Major Business
 - 7.6.3 Contemporary Amperex Technology Co., Limited (CATL) High-Performance Lithium-Ion Battery Pack Product and Services
 - 7.6.4 Contemporary Amperex Technology Co., Limited (CATL) High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.6.5 Contemporary Amperex Technology Co., Limited (CATL) Recent Developments/Updates
 - 7.6.6 Contemporary Amperex Technology Co., Limited (CATL) Competitive Strengths & Weaknesses
- 7.7 A123 Systems LLC
 - 7.7.1 A123 Systems LLC Details
 - 7.7.2 A123 Systems LLC Major Business
 - 7.7.3 A123 Systems LLC High-Performance Lithium-Ion Battery Pack Product and Services
 - 7.7.4 A123 Systems LLC High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.7.5 A123 Systems LLC Recent Developments/Updates
 - 7.7.6 A123 Systems LLC Competitive Strengths & Weaknesses
- 7.8 GS Yuasa Corporation
 - 7.8.1 GS Yuasa Corporation Details
 - 7.8.2 GS Yuasa Corporation Major Business
 - 7.8.3 GS Yuasa Corporation High-Performance Lithium-Ion Battery Pack Product and Services
 - 7.8.4 GS Yuasa Corporation High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.8.5 GS Yuasa Corporation Recent Developments/Updates
 - 7.8.6 GS Yuasa Corporation Competitive Strengths & Weaknesses
- 7.9 Toshiba Corporation

- 7.9.1 Toshiba Corporation Details
- 7.9.2 Toshiba Corporation Major Business
- 7.9.3 Toshiba Corporation High-Performance Lithium-Ion Battery Pack Product and Services
- 7.9.4 Toshiba Corporation High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.9.5 Toshiba Corporation Recent Developments/Updates
- 7.9.6 Toshiba Corporation Competitive Strengths & Weaknesses
- 7.10 EnerSys
 - 7.10.1 EnerSys Details
 - 7.10.2 EnerSys Major Business
 - 7.10.3 EnerSys High-Performance Lithium-Ion Battery Pack Product and Services
 - 7.10.4 EnerSys High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.10.5 EnerSys Recent Developments/Updates
 - 7.10.6 EnerSys Competitive Strengths & Weaknesses
- 7.11 Johnson Controls International plc
 - 7.11.1 Johnson Controls International plc Details
 - 7.11.2 Johnson Controls International plc Major Business
 - 7.11.3 Johnson Controls International plc High-Performance Lithium-Ion Battery Pack Product and Services
 - 7.11.4 Johnson Controls International plc High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.11.5 Johnson Controls International plc Recent Developments/Updates
 - 7.11.6 Johnson Controls International plc Competitive Strengths & Weaknesses
- 7.12 Saft Groupe S.A.
 - 7.12.1 Saft Groupe S.A. Details
 - 7.12.2 Saft Groupe S.A. Major Business
 - 7.12.3 Saft Groupe S.A. High-Performance Lithium-Ion Battery Pack Product and Services
 - 7.12.4 Saft Groupe S.A. High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.12.5 Saft Groupe S.A. Recent Developments/Updates
 - 7.12.6 Saft Groupe S.A. Competitive Strengths & Weaknesses
- 7.13 Hitachi Chemical Co., Ltd.
 - 7.13.1 Hitachi Chemical Co., Ltd. Details
 - 7.13.2 Hitachi Chemical Co., Ltd. Major Business
 - 7.13.3 Hitachi Chemical Co., Ltd. High-Performance Lithium-Ion Battery Pack Product and Services

- 7.13.4 Hitachi Chemical Co., Ltd. High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.13.5 Hitachi Chemical Co., Ltd. Recent Developments/Updates
- 7.13.6 Hitachi Chemical Co., Ltd. Competitive Strengths & Weaknesses
- 7.14 Kokam Co., Ltd.
 - 7.14.1 Kokam Co., Ltd. Details
 - 7.14.2 Kokam Co., Ltd. Major Business
 - 7.14.3 Kokam Co., Ltd. High-Performance Lithium-Ion Battery Pack Product and Services
 - 7.14.4 Kokam Co., Ltd. High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.14.5 Kokam Co., Ltd. Recent Developments/Updates
 - 7.14.6 Kokam Co., Ltd. Competitive Strengths & Weaknesses
- 7.15 NEC Energy Solutions
 - 7.15.1 NEC Energy Solutions Details
 - 7.15.2 NEC Energy Solutions Major Business
 - 7.15.3 NEC Energy Solutions High-Performance Lithium-Ion Battery Pack Product and Services
 - 7.15.4 NEC Energy Solutions High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.15.5 NEC Energy Solutions Recent Developments/Updates
 - 7.15.6 NEC Energy Solutions Competitive Strengths & Weaknesses
- 7.16 EVE Energy Co., Ltd.
 - 7.16.1 EVE Energy Co., Ltd. Details
 - 7.16.2 EVE Energy Co., Ltd. Major Business
 - 7.16.3 EVE Energy Co., Ltd. High-Performance Lithium-Ion Battery Pack Product and Services
 - 7.16.4 EVE Energy Co., Ltd. High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.16.5 EVE Energy Co., Ltd. Recent Developments/Updates
 - 7.16.6 EVE Energy Co., Ltd. Competitive Strengths & Weaknesses
- 7.17 Shenzhen BAK Battery Co., Ltd.
 - 7.17.1 Shenzhen BAK Battery Co., Ltd. Details
 - 7.17.2 Shenzhen BAK Battery Co., Ltd. Major Business
 - 7.17.3 Shenzhen BAK Battery Co., Ltd. High-Performance Lithium-Ion Battery Pack Product and Services
 - 7.17.4 Shenzhen BAK Battery Co., Ltd. High-Performance Lithium-Ion Battery Pack Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.17.5 Shenzhen BAK Battery Co., Ltd. Recent Developments/Updates

7.17.6 Shenzhen BAK Battery Co., Ltd. Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 High-Performance Lithium-Ion Battery Pack Industry Chain

8.2 High-Performance Lithium-Ion Battery Pack Upstream Analysis

8.2.1 High-Performance Lithium-Ion Battery Pack Core Raw Materials

8.2.2 Main Manufacturers of High-Performance Lithium-Ion Battery Pack Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 High-Performance Lithium-Ion Battery Pack Production Mode

8.6 High-Performance Lithium-Ion Battery Pack Procurement Model

8.7 High-Performance Lithium-Ion Battery Pack Industry Sales Model and Sales Channels

8.7.1 High-Performance Lithium-Ion Battery Pack Sales Model

8.7.2 High-Performance Lithium-Ion Battery Pack Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World High-Performance Lithium-Ion Battery Pack Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World High-Performance Lithium-Ion Battery Pack Production Value by Region (2018-2023) & (USD Million)

Table 3. World High-Performance Lithium-Ion Battery Pack Production Value by Region (2024-2029) & (USD Million)

Table 4. World High-Performance Lithium-Ion Battery Pack Production Value Market Share by Region (2018-2023)

Table 5. World High-Performance Lithium-Ion Battery Pack Production Value Market Share by Region (2024-2029)

Table 6. World High-Performance Lithium-Ion Battery Pack Production by Region (2018-2023) & (MWh)

Table 7. World High-Performance Lithium-Ion Battery Pack Production by Region (2024-2029) & (MWh)

Table 8. World High-Performance Lithium-Ion Battery Pack Production Market Share by Region (2018-2023)

Table 9. World High-Performance Lithium-Ion Battery Pack Production Market Share by Region (2024-2029)

Table 10. World High-Performance Lithium-Ion Battery Pack Average Price by Region (2018-2023) & (US\$/Wh)

Table 11. World High-Performance Lithium-Ion Battery Pack Average Price by Region (2024-2029) & (US\$/Wh)

Table 12. High-Performance Lithium-Ion Battery Pack Major Market Trends

Table 13. World High-Performance Lithium-Ion Battery Pack Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (MWh)

Table 14. World High-Performance Lithium-Ion Battery Pack Consumption by Region (2018-2023) & (MWh)

Table 15. World High-Performance Lithium-Ion Battery Pack Consumption Forecast by Region (2024-2029) & (MWh)

Table 16. World High-Performance Lithium-Ion Battery Pack Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key High-Performance Lithium-Ion Battery Pack Producers in 2022

Table 18. World High-Performance Lithium-Ion Battery Pack Production by Manufacturer (2018-2023) & (MWh)

Table 19. Production Market Share of Key High-Performance Lithium-Ion Battery Pack Producers in 2022

Table 20. World High-Performance Lithium-Ion Battery Pack Average Price by Manufacturer (2018-2023) & (US\$/Wh)

Table 21. Global High-Performance Lithium-Ion Battery Pack Company Evaluation Quadrant

Table 22. World High-Performance Lithium-Ion Battery Pack Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and High-Performance Lithium-Ion Battery Pack Production Site of Key Manufacturer

Table 24. High-Performance Lithium-Ion Battery Pack Market: Company Product Type Footprint

Table 25. High-Performance Lithium-Ion Battery Pack Market: Company Product Application Footprint

Table 26. High-Performance Lithium-Ion Battery Pack Competitive Factors

Table 27. High-Performance Lithium-Ion Battery Pack New Entrant and Capacity Expansion Plans

Table 28. High-Performance Lithium-Ion Battery Pack Mergers & Acquisitions Activity

Table 29. United States VS China High-Performance Lithium-Ion Battery Pack Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China High-Performance Lithium-Ion Battery Pack Production Comparison, (2018 & 2022 & 2029) & (MWh)

Table 31. United States VS China High-Performance Lithium-Ion Battery Pack Consumption Comparison, (2018 & 2022 & 2029) & (MWh)

Table 32. United States Based High-Performance Lithium-Ion Battery Pack Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers High-Performance Lithium-Ion Battery Pack Production (2018-2023) & (MWh)

Table 36. United States Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Market Share (2018-2023)

Table 37. China Based High-Performance Lithium-Ion Battery Pack Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers High-Performance Lithium-Ion Battery Pack

Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers High-Performance Lithium-Ion Battery Pack Production (2018-2023) & (MWh)

Table 41. China Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Market Share (2018-2023)

Table 42. Rest of World Based High-Performance Lithium-Ion Battery Pack Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers High-Performance Lithium-Ion Battery Pack Production (2018-2023) & (MWh)

Table 46. Rest of World Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Market Share (2018-2023)

Table 47. World High-Performance Lithium-Ion Battery Pack Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World High-Performance Lithium-Ion Battery Pack Production by Type (2018-2023) & (MWh)

Table 49. World High-Performance Lithium-Ion Battery Pack Production by Type (2024-2029) & (MWh)

Table 50. World High-Performance Lithium-Ion Battery Pack Production Value by Type (2018-2023) & (USD Million)

Table 51. World High-Performance Lithium-Ion Battery Pack Production Value by Type (2024-2029) & (USD Million)

Table 52. World High-Performance Lithium-Ion Battery Pack Average Price by Type (2018-2023) & (US\$/Wh)

Table 53. World High-Performance Lithium-Ion Battery Pack Average Price by Type (2024-2029) & (US\$/Wh)

Table 54. World High-Performance Lithium-Ion Battery Pack Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World High-Performance Lithium-Ion Battery Pack Production by Application (2018-2023) & (MWh)

Table 56. World High-Performance Lithium-Ion Battery Pack Production by Application (2024-2029) & (MWh)

Table 57. World High-Performance Lithium-Ion Battery Pack Production Value by Application (2018-2023) & (USD Million)

Table 58. World High-Performance Lithium-Ion Battery Pack Production Value by Application (2024-2029) & (USD Million)

Table 59. World High-Performance Lithium-Ion Battery Pack Average Price by Application (2018-2023) & (US\$/Wh)

Table 60. World High-Performance Lithium-Ion Battery Pack Average Price by Application (2024-2029) & (US\$/Wh)

Table 61. Panasonic Corporation Basic Information, Manufacturing Base and Competitors

Table 62. Panasonic Corporation Major Business

Table 63. Panasonic Corporation High-Performance Lithium-Ion Battery Pack Product and Services

Table 64. Panasonic Corporation High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Panasonic Corporation Recent Developments/Updates

Table 66. Panasonic Corporation Competitive Strengths & Weaknesses

Table 67. LG Chem Ltd. Basic Information, Manufacturing Base and Competitors

Table 68. LG Chem Ltd. Major Business

Table 69. LG Chem Ltd. High-Performance Lithium-Ion Battery Pack Product and Services

Table 70. LG Chem Ltd. High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. LG Chem Ltd. Recent Developments/Updates

Table 72. LG Chem Ltd. Competitive Strengths & Weaknesses

Table 73. Samsung SDI Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 74. Samsung SDI Co., Ltd. Major Business

Table 75. Samsung SDI Co., Ltd. High-Performance Lithium-Ion Battery Pack Product and Services

Table 76. Samsung SDI Co., Ltd. High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Samsung SDI Co., Ltd. Recent Developments/Updates

Table 78. Samsung SDI Co., Ltd. Competitive Strengths & Weaknesses

Table 79. Tesla, Inc. Basic Information, Manufacturing Base and Competitors

Table 80. Tesla, Inc. Major Business

Table 81. Tesla, Inc. High-Performance Lithium-Ion Battery Pack Product and Services

Table 82. Tesla, Inc. High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Tesla, Inc. Recent Developments/Updates

Table 84. Tesla, Inc. Competitive Strengths & Weaknesses

Table 85. BYD Company Limited Basic Information, Manufacturing Base and Competitors

Table 86. BYD Company Limited Major Business

Table 87. BYD Company Limited High-Performance Lithium-Ion Battery Pack Product and Services

Table 88. BYD Company Limited High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. BYD Company Limited Recent Developments/Updates

Table 90. BYD Company Limited Competitive Strengths & Weaknesses

Table 91. Contemporary Amperex Technology Co., Limited (CATL) Basic Information, Manufacturing Base and Competitors

Table 92. Contemporary Amperex Technology Co., Limited (CATL) Major Business

Table 93. Contemporary Amperex Technology Co., Limited (CATL) High-Performance Lithium-Ion Battery Pack Product and Services

Table 94. Contemporary Amperex Technology Co., Limited (CATL) High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. Contemporary Amperex Technology Co., Limited (CATL) Recent Developments/Updates

Table 96. Contemporary Amperex Technology Co., Limited (CATL) Competitive Strengths & Weaknesses

Table 97. A123 Systems LLC Basic Information, Manufacturing Base and Competitors

Table 98. A123 Systems LLC Major Business

Table 99. A123 Systems LLC High-Performance Lithium-Ion Battery Pack Product and Services

Table 100. A123 Systems LLC High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. A123 Systems LLC Recent Developments/Updates

Table 102. A123 Systems LLC Competitive Strengths & Weaknesses

Table 103. GS Yuasa Corporation Basic Information, Manufacturing Base and Competitors

Table 104. GS Yuasa Corporation Major Business

Table 105. GS Yuasa Corporation High-Performance Lithium-Ion Battery Pack Product and Services

Table 106. GS Yuasa Corporation High-Performance Lithium-Ion Battery Pack

Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 107. GS Yuasa Corporation Recent Developments/Updates

Table 108. GS Yuasa Corporation Competitive Strengths & Weaknesses

Table 109. Toshiba Corporation Basic Information, Manufacturing Base and Competitors

Table 110. Toshiba Corporation Major Business

Table 111. Toshiba Corporation High-Performance Lithium-Ion Battery Pack Product and Services

Table 112. Toshiba Corporation High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 113. Toshiba Corporation Recent Developments/Updates

Table 114. Toshiba Corporation Competitive Strengths & Weaknesses

Table 115. EnerSys Basic Information, Manufacturing Base and Competitors

Table 116. EnerSys Major Business

Table 117. EnerSys High-Performance Lithium-Ion Battery Pack Product and Services

Table 118. EnerSys High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 119. EnerSys Recent Developments/Updates

Table 120. EnerSys Competitive Strengths & Weaknesses

Table 121. Johnson Controls International plc Basic Information, Manufacturing Base and Competitors

Table 122. Johnson Controls International plc Major Business

Table 123. Johnson Controls International plc High-Performance Lithium-Ion Battery Pack Product and Services

Table 124. Johnson Controls International plc High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 125. Johnson Controls International plc Recent Developments/Updates

Table 126. Johnson Controls International plc Competitive Strengths & Weaknesses

Table 127. Saft Groupe S.A. Basic Information, Manufacturing Base and Competitors

Table 128. Saft Groupe S.A. Major Business

Table 129. Saft Groupe S.A. High-Performance Lithium-Ion Battery Pack Product and Services

Table 130. Saft Groupe S.A. High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 131. Saft Groupe S.A. Recent Developments/Updates

Table 132. Saft Groupe S.A. Competitive Strengths & Weaknesses

Table 133. Hitachi Chemical Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 134. Hitachi Chemical Co., Ltd. Major Business

Table 135. Hitachi Chemical Co., Ltd. High-Performance Lithium-Ion Battery Pack Product and Services

Table 136. Hitachi Chemical Co., Ltd. High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. Hitachi Chemical Co., Ltd. Recent Developments/Updates

Table 138. Hitachi Chemical Co., Ltd. Competitive Strengths & Weaknesses

Table 139. Kokam Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 140. Kokam Co., Ltd. Major Business

Table 141. Kokam Co., Ltd. High-Performance Lithium-Ion Battery Pack Product and Services

Table 142. Kokam Co., Ltd. High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. Kokam Co., Ltd. Recent Developments/Updates

Table 144. Kokam Co., Ltd. Competitive Strengths & Weaknesses

Table 145. NEC Energy Solutions Basic Information, Manufacturing Base and Competitors

Table 146. NEC Energy Solutions Major Business

Table 147. NEC Energy Solutions High-Performance Lithium-Ion Battery Pack Product and Services

Table 148. NEC Energy Solutions High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 149. NEC Energy Solutions Recent Developments/Updates

Table 150. NEC Energy Solutions Competitive Strengths & Weaknesses

Table 151. EVE Energy Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 152. EVE Energy Co., Ltd. Major Business

Table 153. EVE Energy Co., Ltd. High-Performance Lithium-Ion Battery Pack Product and Services

Table 154. EVE Energy Co., Ltd. High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 155. EVE Energy Co., Ltd. Recent Developments/Updates

Table 156. Shenzhen BAK Battery Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 157. Shenzhen BAK Battery Co., Ltd. Major Business

Table 158. Shenzhen BAK Battery Co., Ltd. High-Performance Lithium-Ion Battery Pack Product and Services

Table 159. Shenzhen BAK Battery Co., Ltd. High-Performance Lithium-Ion Battery Pack Production (MWh), Price (US\$/Wh), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 160. Global Key Players of High-Performance Lithium-Ion Battery Pack Upstream (Raw Materials)

Table 161. High-Performance Lithium-Ion Battery Pack Typical Customers

Table 162. High-Performance Lithium-Ion Battery Pack Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High-Performance Lithium-Ion Battery Pack Picture

Figure 2. World High-Performance Lithium-Ion Battery Pack Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World High-Performance Lithium-Ion Battery Pack Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World High-Performance Lithium-Ion Battery Pack Production (2018-2029) & (MWh)

Figure 5. World High-Performance Lithium-Ion Battery Pack Average Price (2018-2029) & (US\$/Wh)

Figure 6. World High-Performance Lithium-Ion Battery Pack Production Value Market Share by Region (2018-2029)

Figure 7. World High-Performance Lithium-Ion Battery Pack Production Market Share by Region (2018-2029)

Figure 8. North America High-Performance Lithium-Ion Battery Pack Production (2018-2029) & (MWh)

Figure 9. Europe High-Performance Lithium-Ion Battery Pack Production (2018-2029) & (MWh)

Figure 10. China High-Performance Lithium-Ion Battery Pack Production (2018-2029) & (MWh)

Figure 11. Japan High-Performance Lithium-Ion Battery Pack Production (2018-2029) & (MWh)

Figure 12. South Korea High-Performance Lithium-Ion Battery Pack Production (2018-2029) & (MWh)

Figure 13. High-Performance Lithium-Ion Battery Pack Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World High-Performance Lithium-Ion Battery Pack Consumption (2018-2029) & (MWh)

Figure 16. World High-Performance Lithium-Ion Battery Pack Consumption Market Share by Region (2018-2029)

Figure 17. United States High-Performance Lithium-Ion Battery Pack Consumption (2018-2029) & (MWh)

Figure 18. China High-Performance Lithium-Ion Battery Pack Consumption (2018-2029) & (MWh)

Figure 19. Europe High-Performance Lithium-Ion Battery Pack Consumption (2018-2029) & (MWh)

Figure 20. Japan High-Performance Lithium-Ion Battery Pack Consumption (2018-2029) & (MWh)

Figure 21. South Korea High-Performance Lithium-Ion Battery Pack Consumption (2018-2029) & (MWh)

Figure 22. ASEAN High-Performance Lithium-Ion Battery Pack Consumption (2018-2029) & (MWh)

Figure 23. India High-Performance Lithium-Ion Battery Pack Consumption (2018-2029) & (MWh)

Figure 24. Producer Shipments of High-Performance Lithium-Ion Battery Pack by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 25. Global Four-firm Concentration Ratios (CR4) for High-Performance Lithium-Ion Battery Pack Markets in 2022

Figure 26. Global Four-firm Concentration Ratios (CR8) for High-Performance Lithium-Ion Battery Pack Markets in 2022

Figure 27. United States VS China: High-Performance Lithium-Ion Battery Pack Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: High-Performance Lithium-Ion Battery Pack Production Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States VS China: High-Performance Lithium-Ion Battery Pack Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 30. United States Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Market Share 2022

Figure 31. China Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Market Share 2022

Figure 32. Rest of World Based Manufacturers High-Performance Lithium-Ion Battery Pack Production Market Share 2022

Figure 33. World High-Performance Lithium-Ion Battery Pack Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 34. World High-Performance Lithium-Ion Battery Pack Production Value Market Share by Type in 2022

Figure 35. Polymer Lithium-Ion Battery Pack

Figure 36. Lithium Cobalt Oxide Battery Pack

Figure 37. Lithium Iron Phosphate Battery Pack

Figure 38. Ternary Material Lithium-Ion Battery Pack

Figure 39. World High-Performance Lithium-Ion Battery Pack Production Market Share by Type (2018-2029)

Figure 40. World High-Performance Lithium-Ion Battery Pack Production Value Market Share by Type (2018-2029)

Figure 41. World High-Performance Lithium-Ion Battery Pack Average Price by Type

(2018-2029) & (US\$/Wh)

Figure 42. World High-Performance Lithium-Ion Battery Pack Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 43. World High-Performance Lithium-Ion Battery Pack Production Value Market Share by Application in 2022

Figure 44. Automobile Industry

Figure 45. Consumer Electronics Industry

Figure 46. Others

Figure 47. World High-Performance Lithium-Ion Battery Pack Production Market Share by Application (2018-2029)

Figure 48. World High-Performance Lithium-Ion Battery Pack Production Value Market Share by Application (2018-2029)

Figure 49. World High-Performance Lithium-Ion Battery Pack Average Price by Application (2018-2029) & (US\$/Wh)

Figure 50. High-Performance Lithium-Ion Battery Pack Industry Chain

Figure 51. High-Performance Lithium-Ion Battery Pack Procurement Model

Figure 52. High-Performance Lithium-Ion Battery Pack Sales Model

Figure 53. High-Performance Lithium-Ion Battery Pack Sales Channels, Direct Sales, and Distribution

Figure 54. Methodology

Figure 55. Research Process and Data Source

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