

Global Solid-State Battery Electrolyte Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Solid-State Battery Electrolyte market size was valued at US\$ 70.59 million in 2025 and is forecast to a readjusted size of US\$ 5787 million by 2032 with a CAGR of 88.7% during review period.

In 2024, global sales of solid-state battery electrolytes will reach 780 tons, with an average selling price of approximately US\$66 per kilogram. Solid electrolytes are the core components that distinguish solid-state batteries from traditional liquid batteries and are the technical focus of solid-state battery development. Solid electrolytes are composed of conductive solid materials. Compared with liquid electrolytes, solid electrolytes have higher thermal stability, electrochemical stability and mechanical strength, and can effectively prevent safety issues such as electrolyte leakage, fire and even explosion.

In-depth analysis of market drivers

1. Explosion of demand for new energy vehicles

Policy promotion:

With the domestic car trade-in policy and the implementation of smart driving technology, it is expected that the electrification penetration rate of new energy vehicles in China will exceed 50%. The EU 'ban on fuel' requires the suspension of fuel vehicles in 2035, forcing automakers to accelerate the development of solid-state batteries.

Performance requirements:

The high energy density of solid-state batteries (target 500Wh/kg) meets the long-range requirements. For example, the semi-solid-state battery of NIO ET7 has a range of more than 1,000 kilometers.

The improvement of fast charging performance (80% charging in 10 minutes) solves the user's mileage anxiety.

2. The demand for energy storage industry has surged

Energy transformation:

The global demand for energy storage systems has an annual compound growth rate of more than 30%, and solid-state batteries have become an ideal choice due to their high safety and long life (more than 10,000 cycles).

Overseas market demand is increasing, and large-scale energy storage projects in the United States, the Middle East and other regions have high growth certainty.

Application scenario expansion:

There is an urgent need for high-safety batteries in areas such as power grid peak regulation and 5G base station backup power.

3. Emerging fields such as low-altitude economy promote

Application scenarios:

Low-altitude aircraft such as eVTOL (electric vertical take-off and landing aircraft) have extremely high requirements for battery energy density (>400Wh/kg) and safety, and solid-state batteries have become the first choice.

Policy support: Low-altitude economy has been promoted to the status of a strategic emerging industry.

4. Dual drive of policy and capital

Government support:

China's 'New Energy Vehicle Industry Development Plan (2025-2035)' clearly states that solid-state batteries are the key development direction.

The EU 'Battery Innovation Plan' invested 2 billion euros to support the research and development of solid-state batteries.

Capital inflow:

Head companies have received heavy holdings from northbound funds, QFII, etc., such as CATL, which has a total of more than 6.3 million shares held by UBS and Abu Dhabi Investment Authority.

The compound annual growth rate of financing for solid-state battery start-ups exceeds 100%, which accelerates technology iteration.

With technological breakthroughs, cost reductions and policy support, the solid-state battery electrolyte market is expected to usher in explosive growth. Leading companies will dominate the next generation of battery technology revolution through technology monopoly, industrial chain integration and global layout. At the same time, the widespread application of solid-state batteries in new energy vehicles, energy storage, low-altitude economy and other fields will promote the transformation of the global energy structure and help achieve the goal of carbon neutrality.

This report is a detailed and comprehensive analysis for global Solid-State Battery Electrolyte market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Solid-State Battery Electrolyte market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Solid-State Battery Electrolyte market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices

(US\$/kg), 2021-2032

Global Solid-State Battery Electrolyte market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Solid-State Battery Electrolyte market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Solid-State Battery Electrolyte
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Solid-State Battery Electrolyte market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include OHARA, TDK, Solid Power, Mitsui Mining & Smelting, BTR, Ampcera, Ganfeng Lithium Group, LionGo (Huzhou) New Energy, GTC-Power, NEI Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Solid-State Battery Electrolyte market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Oxide-based

Sulfide-based

Other

Market segment by Application

Quasi-Solid/Semi-Solid Battery

All-Solid-State Battery

Major players covered

OHARA

TDK

Solid Power

Mitsui Mining & Smelting

BTR

Ampcera

Ganfeng Lithium Group

LionGo (Huzhou) New Energy

GTC-Power

NEI Corporation

Qingtao (Kunshan) Energy

Shenzhen Xinyuanbang

POSCO JK Solid Solution

XTC New Energy Materials

Shanghai Kysonergy

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Solid-State Battery Electrolyte product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solid-State Battery Electrolyte, with price, sales quantity, revenue, and global market share of Solid-State Battery Electrolyte from 2021 to 2026.

Chapter 3, the Solid-State Battery Electrolyte competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solid-State Battery Electrolyte breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Solid-State Battery Electrolyte market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solid-State Battery Electrolyte.

Chapter 14 and 15, to describe Solid-State Battery Electrolyte sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Solid-State Battery Electrolyte Consumption Value by Type:
2021 Versus 2025 Versus 2032

1.3.2 Oxide-based

1.3.3 Sulfide-based

1.3.4 Other

1.4 Market Analysis by Application

1.4.1 Overview: Global Solid-State Battery Electrolyte Consumption Value by
Application: 2021 Versus 2025 Versus 2032

1.4.2 Quasi-Solid/Semi-Solid Battery

1.4.3 All-Solid-State Battery

1.5 Global Solid-State Battery Electrolyte Market Size & Forecast

1.5.1 Global Solid-State Battery Electrolyte Consumption Value (2021 & 2025 & 2032)

1.5.2 Global Solid-State Battery Electrolyte Sales Quantity (2021-2032)

1.5.3 Global Solid-State Battery Electrolyte Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 OHARA

2.1.1 OHARA Details

2.1.2 OHARA Major Business

2.1.3 OHARA Solid-State Battery Electrolyte Product and Services

2.1.4 OHARA Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue,
Gross Margin and Market Share (2021-2026)

2.1.5 OHARA Recent Developments/Updates

2.2 TDK

2.2.1 TDK Details

2.2.2 TDK Major Business

2.2.3 TDK Solid-State Battery Electrolyte Product and Services

2.2.4 TDK Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue,
Gross Margin and Market Share (2021-2026)

2.2.5 TDK Recent Developments/Updates

2.3 Solid Power

- 2.3.1 Solid Power Details
- 2.3.2 Solid Power Major Business
- 2.3.3 Solid Power Solid-State Battery Electrolyte Product and Services
- 2.3.4 Solid Power Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 Solid Power Recent Developments/Updates
- 2.4 Mitsui Mining & Smelting
 - 2.4.1 Mitsui Mining & Smelting Details
 - 2.4.2 Mitsui Mining & Smelting Major Business
 - 2.4.3 Mitsui Mining & Smelting Solid-State Battery Electrolyte Product and Services
 - 2.4.4 Mitsui Mining & Smelting Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Mitsui Mining & Smelting Recent Developments/Updates
- 2.5 BTR
 - 2.5.1 BTR Details
 - 2.5.2 BTR Major Business
 - 2.5.3 BTR Solid-State Battery Electrolyte Product and Services
 - 2.5.4 BTR Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 BTR Recent Developments/Updates
- 2.6 Ampcera
 - 2.6.1 Ampcera Details
 - 2.6.2 Ampcera Major Business
 - 2.6.3 Ampcera Solid-State Battery Electrolyte Product and Services
 - 2.6.4 Ampcera Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Ampcera Recent Developments/Updates
- 2.7 Ganfeng Lithium Group
 - 2.7.1 Ganfeng Lithium Group Details
 - 2.7.2 Ganfeng Lithium Group Major Business
 - 2.7.3 Ganfeng Lithium Group Solid-State Battery Electrolyte Product and Services
 - 2.7.4 Ganfeng Lithium Group Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Ganfeng Lithium Group Recent Developments/Updates
- 2.8 LionGo (Huzhou) New Energy
 - 2.8.1 LionGo (Huzhou) New Energy Details
 - 2.8.2 LionGo (Huzhou) New Energy Major Business
 - 2.8.3 LionGo (Huzhou) New Energy Solid-State Battery Electrolyte Product and Services

2.8.4 LionGo (Huzhou) New Energy Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 LionGo (Huzhou) New Energy Recent Developments/Updates

2.9 GTC-Power

2.9.1 GTC-Power Details

2.9.2 GTC-Power Major Business

2.9.3 GTC-Power Solid-State Battery Electrolyte Product and Services

2.9.4 GTC-Power Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 GTC-Power Recent Developments/Updates

2.10 NEI Corporation

2.10.1 NEI Corporation Details

2.10.2 NEI Corporation Major Business

2.10.3 NEI Corporation Solid-State Battery Electrolyte Product and Services

2.10.4 NEI Corporation Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 NEI Corporation Recent Developments/Updates

2.11 Qingtao (Kunshan) Energy

2.11.1 Qingtao (Kunshan) Energy Details

2.11.2 Qingtao (Kunshan) Energy Major Business

2.11.3 Qingtao (Kunshan) Energy Solid-State Battery Electrolyte Product and Services

2.11.4 Qingtao (Kunshan) Energy Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Qingtao (Kunshan) Energy Recent Developments/Updates

2.12 Shenzhen Xinyuanbang

2.12.1 Shenzhen Xinyuanbang Details

2.12.2 Shenzhen Xinyuanbang Major Business

2.12.3 Shenzhen Xinyuanbang Solid-State Battery Electrolyte Product and Services

2.12.4 Shenzhen Xinyuanbang Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Shenzhen Xinyuanbang Recent Developments/Updates

2.13 POSCO JK Solid Solution

2.13.1 POSCO JK Solid Solution Details

2.13.2 POSCO JK Solid Solution Major Business

2.13.3 POSCO JK Solid Solution Solid-State Battery Electrolyte Product and Services

2.13.4 POSCO JK Solid Solution Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 POSCO JK Solid Solution Recent Developments/Updates

2.14 XTC New Energy Materials

- 2.14.1 XTC New Energy Materials Details
- 2.14.2 XTC New Energy Materials Major Business
- 2.14.3 XTC New Energy Materials Solid-State Battery Electrolyte Product and Services
- 2.14.4 XTC New Energy Materials Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.14.5 XTC New Energy Materials Recent Developments/Updates
- 2.15 Shanghai Kysonergy
 - 2.15.1 Shanghai Kysonergy Details
 - 2.15.2 Shanghai Kysonergy Major Business
 - 2.15.3 Shanghai Kysonergy Solid-State Battery Electrolyte Product and Services
 - 2.15.4 Shanghai Kysonergy Solid-State Battery Electrolyte Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 Shanghai Kysonergy Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SOLID-STATE BATTERY ELECTROLYTE BY MANUFACTURER

- 3.1 Global Solid-State Battery Electrolyte Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Solid-State Battery Electrolyte Revenue by Manufacturer (2021-2026)
- 3.3 Global Solid-State Battery Electrolyte Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Solid-State Battery Electrolyte by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Solid-State Battery Electrolyte Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Solid-State Battery Electrolyte Manufacturer Market Share in 2025
- 3.5 Solid-State Battery Electrolyte Market: Overall Company Footprint Analysis
 - 3.5.1 Solid-State Battery Electrolyte Market: Region Footprint
 - 3.5.2 Solid-State Battery Electrolyte Market: Company Product Type Footprint
 - 3.5.3 Solid-State Battery Electrolyte Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Solid-State Battery Electrolyte Market Size by Region
 - 4.1.1 Global Solid-State Battery Electrolyte Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Solid-State Battery Electrolyte Consumption Value by Region (2021-2032)

- 4.1.3 Global Solid-State Battery Electrolyte Average Price by Region (2021-2032)
- 4.2 North America Solid-State Battery Electrolyte Consumption Value (2021-2032)
- 4.3 Europe Solid-State Battery Electrolyte Consumption Value (2021-2032)
- 4.4 Asia-Pacific Solid-State Battery Electrolyte Consumption Value (2021-2032)
- 4.5 South America Solid-State Battery Electrolyte Consumption Value (2021-2032)
- 4.6 Middle East & Africa Solid-State Battery Electrolyte Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Solid-State Battery Electrolyte Sales Quantity by Type (2021-2032)
- 5.2 Global Solid-State Battery Electrolyte Consumption Value by Type (2021-2032)
- 5.3 Global Solid-State Battery Electrolyte Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Solid-State Battery Electrolyte Sales Quantity by Application (2021-2032)
- 6.2 Global Solid-State Battery Electrolyte Consumption Value by Application (2021-2032)
- 6.3 Global Solid-State Battery Electrolyte Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Solid-State Battery Electrolyte Sales Quantity by Type (2021-2032)
- 7.2 North America Solid-State Battery Electrolyte Sales Quantity by Application (2021-2032)
- 7.3 North America Solid-State Battery Electrolyte Market Size by Country
 - 7.3.1 North America Solid-State Battery Electrolyte Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Solid-State Battery Electrolyte Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Solid-State Battery Electrolyte Sales Quantity by Type (2021-2032)
- 8.2 Europe Solid-State Battery Electrolyte Sales Quantity by Application (2021-2032)
- 8.3 Europe Solid-State Battery Electrolyte Market Size by Country

- 8.3.1 Europe Solid-State Battery Electrolyte Sales Quantity by Country (2021-2032)
- 8.3.2 Europe Solid-State Battery Electrolyte Consumption Value by Country (2021-2032)
- 8.3.3 Germany Market Size and Forecast (2021-2032)
- 8.3.4 France Market Size and Forecast (2021-2032)
- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Solid-State Battery Electrolyte Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Solid-State Battery Electrolyte Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Solid-State Battery Electrolyte Market Size by Region
 - 9.3.1 Asia-Pacific Solid-State Battery Electrolyte Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Solid-State Battery Electrolyte Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Solid-State Battery Electrolyte Sales Quantity by Type (2021-2032)
- 10.2 South America Solid-State Battery Electrolyte Sales Quantity by Application (2021-2032)
- 10.3 South America Solid-State Battery Electrolyte Market Size by Country
 - 10.3.1 South America Solid-State Battery Electrolyte Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Solid-State Battery Electrolyte Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Solid-State Battery Electrolyte Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Solid-State Battery Electrolyte Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Solid-State Battery Electrolyte Market Size by Country

11.3.1 Middle East & Africa Solid-State Battery Electrolyte Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Solid-State Battery Electrolyte Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Solid-State Battery Electrolyte Market Drivers

12.2 Solid-State Battery Electrolyte Market Restraints

12.3 Solid-State Battery Electrolyte Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Solid-State Battery Electrolyte and Key Manufacturers

13.2 Manufacturing Costs Percentage of Solid-State Battery Electrolyte

13.3 Solid-State Battery Electrolyte Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Solid-State Battery Electrolyte Typical Distributors

14.3 Solid-State Battery Electrolyte Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Figures

LIST OF FIGURES

Table 1. Global Solid-State Battery Electrolyte Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Solid-State Battery Electrolyte Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 3. OHARA Basic Information, Manufacturing Base and Competitors

Table 4. OHARA Major Business

Table 5. OHARA Solid-State Battery Electrolyte Product and Services

Table 6. OHARA Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 7. OHARA Recent Developments/Updates

Table 8. TDK Basic Information, Manufacturing Base and Competitors

Table 9. TDK Major Business

Table 10. TDK Solid-State Battery Electrolyte Product and Services

Table 11. TDK Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. TDK Recent Developments/Updates

Table 13. Solid Power Basic Information, Manufacturing Base and Competitors

Table 14. Solid Power Major Business

Table 15. Solid Power Solid-State Battery Electrolyte Product and Services

Table 16. Solid Power Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. Solid Power Recent Developments/Updates

Table 18. Mitsui Mining & Smelting Basic Information, Manufacturing Base and Competitors

Table 19. Mitsui Mining & Smelting Major Business

Table 20. Mitsui Mining & Smelting Solid-State Battery Electrolyte Product and Services

Table 21. Mitsui Mining & Smelting Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. Mitsui Mining & Smelting Recent Developments/Updates

Table 23. BTR Basic Information, Manufacturing Base and Competitors

Table 24. BTR Major Business

Table 25. BTR Solid-State Battery Electrolyte Product and Services

Table 26. BTR Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 27. BTR Recent Developments/Updates

Table 28. Ampcera Basic Information, Manufacturing Base and Competitors

Table 29. Ampcera Major Business

Table 30. Ampcera Solid-State Battery Electrolyte Product and Services

Table 31. Ampcera Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 32. Ampcera Recent Developments/Updates

Table 33. Ganfeng Lithium Group Basic Information, Manufacturing Base and Competitors

Table 34. Ganfeng Lithium Group Major Business

Table 35. Ganfeng Lithium Group Solid-State Battery Electrolyte Product and Services

Table 36. Ganfeng Lithium Group Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 37. Ganfeng Lithium Group Recent Developments/Updates

Table 38. LionGo (Huzhou) New Energy Basic Information, Manufacturing Base and Competitors

Table 39. LionGo (Huzhou) New Energy Major Business

Table 40. LionGo (Huzhou) New Energy Solid-State Battery Electrolyte Product and Services

Table 41. LionGo (Huzhou) New Energy Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 42. LionGo (Huzhou) New Energy Recent Developments/Updates

Table 43. GTC-Power Basic Information, Manufacturing Base and Competitors

Table 44. GTC-Power Major Business

Table 45. GTC-Power Solid-State Battery Electrolyte Product and Services

Table 46. GTC-Power Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 47. GTC-Power Recent Developments/Updates

Table 48. NEI Corporation Basic Information, Manufacturing Base and Competitors

Table 49. NEI Corporation Major Business

Table 50. NEI Corporation Solid-State Battery Electrolyte Product and Services

Table 51. NEI Corporation Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 52. NEI Corporation Recent Developments/Updates

Table 53. Qingtao (Kunshan) Energy Basic Information, Manufacturing Base and Competitors

- Table 54. Qingtao (Kunshan) Energy Major Business
- Table 55. Qingtao (Kunshan) Energy Solid-State Battery Electrolyte Product and Services
- Table 56. Qingtao (Kunshan) Energy Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 57. Qingtao (Kunshan) Energy Recent Developments/Updates
- Table 58. Shenzhen Xinyuanbang Basic Information, Manufacturing Base and Competitors
- Table 59. Shenzhen Xinyuanbang Major Business
- Table 60. Shenzhen Xinyuanbang Solid-State Battery Electrolyte Product and Services
- Table 61. Shenzhen Xinyuanbang Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 62. Shenzhen Xinyuanbang Recent Developments/Updates
- Table 63. POSCO JK Solid Solution Basic Information, Manufacturing Base and Competitors
- Table 64. POSCO JK Solid Solution Major Business
- Table 65. POSCO JK Solid Solution Solid-State Battery Electrolyte Product and Services
- Table 66. POSCO JK Solid Solution Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 67. POSCO JK Solid Solution Recent Developments/Updates
- Table 68. XTC New Energy Materials Basic Information, Manufacturing Base and Competitors
- Table 69. XTC New Energy Materials Major Business
- Table 70. XTC New Energy Materials Solid-State Battery Electrolyte Product and Services
- Table 71. XTC New Energy Materials Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 72. XTC New Energy Materials Recent Developments/Updates
- Table 73. Shanghai Kysonergy Basic Information, Manufacturing Base and Competitors
- Table 74. Shanghai Kysonergy Major Business
- Table 75. Shanghai Kysonergy Solid-State Battery Electrolyte Product and Services
- Table 76. Shanghai Kysonergy Solid-State Battery Electrolyte Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. Shanghai Kysonergy Recent Developments/Updates

Table 78. Global Solid-State Battery Electrolyte Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 79. Global Solid-State Battery Electrolyte Revenue by Manufacturer (2021-2026) & (USD Million)

Table 80. Global Solid-State Battery Electrolyte Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 81. Market Position of Manufacturers in Solid-State Battery Electrolyte, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 82. Head Office and Solid-State Battery Electrolyte Production Site of Key Manufacturer

Table 83. Solid-State Battery Electrolyte Market: Company Product Type Footprint

Table 84. Solid-State Battery Electrolyte Market: Company Product Application Footprint

Table 85. Solid-State Battery Electrolyte New Market Entrants and Barriers to Market Entry

Table 86. Solid-State Battery Electrolyte Mergers, Acquisition, Agreements, and Collaborations

Table 87. Global Solid-State Battery Electrolyte Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 88. Global Solid-State Battery Electrolyte Sales Quantity by Region (2021-2026) & (Tons)

Table 89. Global Solid-State Battery Electrolyte Sales Quantity by Region (2027-2032) & (Tons)

Table 90. Global Solid-State Battery Electrolyte Consumption Value by Region (2021-2026) & (USD Million)

Table 91. Global Solid-State Battery Electrolyte Consumption Value by Region (2027-2032) & (USD Million)

Table 92. Global Solid-State Battery Electrolyte Average Price by Region (2021-2026) & (US\$/kg)

Table 93. Global Solid-State Battery Electrolyte Average Price by Region (2027-2032) & (US\$/kg)

Table 94. Global Solid-State Battery Electrolyte Sales Quantity by Type (2021-2026) & (Tons)

Table 95. Global Solid-State Battery Electrolyte Sales Quantity by Type (2027-2032) & (Tons)

Table 96. Global Solid-State Battery Electrolyte Consumption Value by Type (2021-2026) & (USD Million)

Table 97. Global Solid-State Battery Electrolyte Consumption Value by Type

(2027-2032) & (USD Million)

Table 98. Global Solid-State Battery Electrolyte Average Price by Type (2021-2026) & (US\$/kg)

Table 99. Global Solid-State Battery Electrolyte Average Price by Type (2027-2032) & (US\$/kg)

Table 100. Global Solid-State Battery Electrolyte Sales Quantity by Application (2021-2026) & (Tons)

Table 101. Global Solid-State Battery Electrolyte Sales Quantity by Application (2027-2032) & (Tons)

Table 102. Global Solid-State Battery Electrolyte Consumption Value by Application (2021-2026) & (USD Million)

Table 103. Global Solid-State Battery Electrolyte Consumption Value by Application (2027-2032) & (USD Million)

Table 104. Global Solid-State Battery Electrolyte Average Price by Application (2021-2026) & (US\$/kg)

Table 105. Global Solid-State Battery Electrolyte Average Price by Application (2027-2032) & (US\$/kg)

Table 106. North America Solid-State Battery Electrolyte Sales Quantity by Type (2021-2026) & (Tons)

Table 107. North America Solid-State Battery Electrolyte Sales Quantity by Type (2027-2032) & (Tons)

Table 108. North America Solid-State Battery Electrolyte Sales Quantity by Application (2021-2026) & (Tons)

Table 109. North America Solid-State Battery Electrolyte Sales Quantity by Application (2027-2032) & (Tons)

Table 110. North America Solid-State Battery Electrolyte Sales Quantity by Country (2021-2026) & (Tons)

Table 111. North America Solid-State Battery Electrolyte Sales Quantity by Country (2027-2032) & (Tons)

Table 112. North America Solid-State Battery Electrolyte Consumption Value by Country (2021-2026) & (USD Million)

Table 113. North America Solid-State Battery Electrolyte Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Europe Solid-State Battery Electrolyte Sales Quantity by Type (2021-2026) & (Tons)

Table 115. Europe Solid-State Battery Electrolyte Sales Quantity by Type (2027-2032) & (Tons)

Table 116. Europe Solid-State Battery Electrolyte Sales Quantity by Application (2021-2026) & (Tons)

Table 117. Europe Solid-State Battery Electrolyte Sales Quantity by Application (2027-2032) & (Tons)

Table 118. Europe Solid-State Battery Electrolyte Sales Quantity by Country (2021-2026) & (Tons)

Table 119. Europe Solid-State Battery Electrolyte Sales Quantity by Country (2027-2032) & (Tons)

Table 120. Europe Solid-State Battery Electrolyte Consumption Value by Country (2021-2026) & (USD Million)

Table 121. Europe Solid-State Battery Electrolyte Consumption Value by Country (2027-2032) & (USD Million)

Table 122. Asia-Pacific Solid-State Battery Electrolyte Sales Quantity by Type (2021-2026) & (Tons)

Table 123. Asia-Pacific Solid-State Battery Electrolyte Sales Quantity by Type (2027-2032) & (Tons)

Table 124. Asia-Pacific Solid-State Battery Electrolyte Sales Quantity by Application (2021-2026) & (Tons)

Table 125. Asia-Pacific Solid-State Battery Electrolyte Sales Quantity by Application (2027-2032) & (Tons)

Table 126. Asia-Pacific Solid-State Battery Electrolyte Sales Quantity by Region (2021-2026) & (Tons)

Table 127. Asia-Pacific Solid-State Battery Electrolyte Sales Quantity by Region (2027-2032) & (Tons)

Table 128. Asia-Pacific Solid-State Battery Electrolyte Consumption Value by Region (2021-2026) & (USD Million)

Table 129. Asia-Pacific Solid-State Battery Electrolyte Consumption Value by Region (2027-2032) & (USD Million)

Table 130. South America Solid-State Battery Electrolyte Sales Quantity by Type (2021-2026) & (Tons)

Table 131. South America Solid-State Battery Electrolyte Sales Quantity by Type (2027-2032) & (Tons)

Table 132. South America Solid-State Battery Electrolyte Sales Quantity by Application (2021-2026) & (Tons)

Table 133. South America Solid-State Battery Electrolyte Sales Quantity by Application (2027-2032) & (Tons)

Table 134. South America Solid-State Battery Electrolyte Sales Quantity by Country (2021-2026) & (Tons)

Table 135. South America Solid-State Battery Electrolyte Sales Quantity by Country (2027-2032) & (Tons)

Table 136. South America Solid-State Battery Electrolyte Consumption Value by

Country (2021-2026) & (USD Million)

Table 137. South America Solid-State Battery Electrolyte Consumption Value by Country (2027-2032) & (USD Million)

Table 138. Middle East & Africa Solid-State Battery Electrolyte Sales Quantity by Type (2021-2026) & (Tons)

Table 139. Middle East & Africa Solid-State Battery Electrolyte Sales Quantity by Type (2027-2032) & (Tons)

Table 140. Middle East & Africa Solid-State Battery Electrolyte Sales Quantity by Application (2021-2026) & (Tons)

Table 141. Middle East & Africa Solid-State Battery Electrolyte Sales Quantity by Application (2027-2032) & (Tons)

Table 142. Middle East & Africa Solid-State Battery Electrolyte Sales Quantity by Country (2021-2026) & (Tons)

Table 143. Middle East & Africa Solid-State Battery Electrolyte Sales Quantity by Country (2027-2032) & (Tons)

Table 144. Middle East & Africa Solid-State Battery Electrolyte Consumption Value by Country (2021-2026) & (USD Million)

Table 145. Middle East & Africa Solid-State Battery Electrolyte Consumption Value by Country (2027-2032) & (USD Million)

Table 146. Solid-State Battery Electrolyte Raw Material

Table 147. Key Manufacturers of Solid-State Battery Electrolyte Raw Materials

Table 148. Solid-State Battery Electrolyte Typical Distributors

Table 149. Solid-State Battery Electrolyte Typical Customers

LIST OF FIGURES

Figure 1. Solid-State Battery Electrolyte Picture

Figure 2. Global Solid-State Battery Electrolyte Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Solid-State Battery Electrolyte Revenue Market Share by Type in 2025

Figure 4. Oxide-based Examples

Figure 5. Sulfide-based Examples

Figure 6. Other Examples

Figure 7. Global Solid-State Battery Electrolyte Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Solid-State Battery Electrolyte Revenue Market Share by Application in 2025

Figure 9. Quasi-Solid/Semi-Solid Battery Examples

Figure 10. All-Solid-State Battery Examples

Figure 11. Global Solid-State Battery Electrolyte Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 12. Global Solid-State Battery Electrolyte Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 13. Global Solid-State Battery Electrolyte Sales Quantity (2021-2032) & (Tons)

Figure 14. Global Solid-State Battery Electrolyte Price (2021-2032) & (US\$/kg)

Figure 15. Global Solid-State Battery Electrolyte Sales Quantity Market Share by Manufacturer in 2025

Figure 16. Global Solid-State Battery Electrolyte Revenue Market Share by Manufacturer in 2025

Figure 17. Producer Shipments of Solid-State Battery Electrolyte by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 18. Top 3 Solid-State Battery Electrolyte Manufacturer (Revenue) Market Share in 2025

Figure 19. Top 6 Solid-State Battery Electrolyte Manufacturer (Revenue) Market Share in 2025

Figure 20. Global Solid-State Battery Electrolyte Sales Quantity Market Share by Region (2021-2032)

Figure 21. Global Solid-State Battery Electrolyte Consumption Value Market Share by Region (2021-2032)

Figure 22. North America Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 23. Europe Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 24. Asia-Pacific Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 25. South America Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 26. Middle East & Africa Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 27. Global Solid-State Battery Electrolyte Sales Quantity Market Share by Type (2021-2032)

Figure 28. Global Solid-State Battery Electrolyte Consumption Value Market Share by Type (2021-2032)

Figure 29. Global Solid-State Battery Electrolyte Average Price by Type (2021-2032) & (US\$/kg)

Figure 30. Global Solid-State Battery Electrolyte Sales Quantity Market Share by Application (2021-2032)

Figure 31. Global Solid-State Battery Electrolyte Revenue Market Share by Application

(2021-2032)

Figure 32. Global Solid-State Battery Electrolyte Average Price by Application (2021-2032) & (US\$/kg)

Figure 33. North America Solid-State Battery Electrolyte Sales Quantity Market Share by Type (2021-2032)

Figure 34. North America Solid-State Battery Electrolyte Sales Quantity Market Share by Application (2021-2032)

Figure 35. North America Solid-State Battery Electrolyte Sales Quantity Market Share by Country (2021-2032)

Figure 36. North America Solid-State Battery Electrolyte Consumption Value Market Share by Country (2021-2032)

Figure 37. United States Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 38. Canada Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 39. Mexico Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 40. Europe Solid-State Battery Electrolyte Sales Quantity Market Share by Type (2021-2032)

Figure 41. Europe Solid-State Battery Electrolyte Sales Quantity Market Share by Application (2021-2032)

Figure 42. Europe Solid-State Battery Electrolyte Sales Quantity Market Share by Country (2021-2032)

Figure 43. Europe Solid-State Battery Electrolyte Consumption Value Market Share by Country (2021-2032)

Figure 44. Germany Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 45. France Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 46. United Kingdom Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 47. Russia Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 48. Italy Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 49. Asia-Pacific Solid-State Battery Electrolyte Sales Quantity Market Share by Type (2021-2032)

Figure 50. Asia-Pacific Solid-State Battery Electrolyte Sales Quantity Market Share by Application (2021-2032)

Figure 51. Asia-Pacific Solid-State Battery Electrolyte Sales Quantity Market Share by Region (2021-2032)

Figure 52. Asia-Pacific Solid-State Battery Electrolyte Consumption Value Market Share by Region (2021-2032)

Figure 53. China Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 54. Japan Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 55. South Korea Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 56. India Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 57. Southeast Asia Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 58. Australia Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 59. South America Solid-State Battery Electrolyte Sales Quantity Market Share by Type (2021-2032)

Figure 60. South America Solid-State Battery Electrolyte Sales Quantity Market Share by Application (2021-2032)

Figure 61. South America Solid-State Battery Electrolyte Sales Quantity Market Share by Country (2021-2032)

Figure 62. South America Solid-State Battery Electrolyte Consumption Value Market Share by Country (2021-2032)

Figure 63. Brazil Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 64. Argentina Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 65. Middle East & Africa Solid-State Battery Electrolyte Sales Quantity Market Share by Type (2021-2032)

Figure 66. Middle East & Africa Solid-State Battery Electrolyte Sales Quantity Market Share by Application (2021-2032)

Figure 67. Middle East & Africa Solid-State Battery Electrolyte Sales Quantity Market Share by Country (2021-2032)

Figure 68. Middle East & Africa Solid-State Battery Electrolyte Consumption Value Market Share by Country (2021-2032)

Figure 69. Turkey Solid-State Battery Electrolyte Consumption Value (2021-2032) & (USD Million)

Figure 70. Egypt Solid-State Battery Electrolyte Consumption Value (2021-2032) &

(USD Million)

Figure 71. Saudi Arabia Solid-State Battery Electrolyte Consumption Value (2021-2032)
& (USD Million)

Figure 72. South Africa Solid-State Battery Electrolyte Consumption Value (2021-2032)
& (USD Million)

Figure 73. Solid-State Battery Electrolyte Market Drivers

Figure 74. Solid-State Battery Electrolyte Market Restraints

Figure 75. Solid-State Battery Electrolyte Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of Solid-State Battery Electrolyte in
2025

Figure 78. Manufacturing Process Analysis of Solid-State Battery Electrolyte

Figure 79. Solid-State Battery Electrolyte Industrial Chain

Figure 80. Sales Channel: Direct to End-User vs Distributors

Figure 81. Direct Channel Pros & Cons

Figure 82. Indirect Channel Pros & Cons

Figure 83. Methodology

Figure 84. Research Process and Data Source

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