

Global Power Solid State Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Solid State Battery market size is expected to reach \$ 28630 million by 2032, rising at a market growth of 46.2% CAGR during the forecast period (2026-2032).

In 2025, global Power Solid State Battery production reached approximately 9680MW, with an average global market price of around US\$200 per kilowatt.

Power Solid State Battery refers to a new-generation traction battery technology that partially or completely replaces conventional liquid electrolytes and separators with solid-state electrolytes. It is primarily designed for electric vehicles, electric aircraft, advanced energy storage systems, and other power applications requiring high energy density, enhanced safety, and long cycle life. The core structure generally consists of high-nickel cathodes, lithium metal or silicon-based anodes, solid-state electrolytes, and current collectors. Depending on the proportion of solid electrolyte used, the technology can be categorized into semi-solid-state batteries, quasi-solid-state batteries, and all-solid-state batteries. Compared with conventional lithium-ion batteries, power solid-state batteries offer higher theoretical energy density, improved thermal stability, reduced thermal runaway risk, and greater long-term technological potential. As a result, they are widely regarded as one of the most promising next-generation battery technologies and have become a strategic focus for global automotive, battery, and materials manufacturers.

The upstream segment of the power solid-state battery industry includes suppliers of lithium salts, sulfide electrolytes, oxide electrolytes, polymer electrolytes, high-nickel cathode materials, lithium metal anodes, silicon-carbon anodes, copper foil, aluminum foil, coating materials, and battery manufacturing equipment. Representative companies include Albemarle, SQM, Ganfeng Lithium, Tianqi Lithium, Umicore, Easpring, Ronbay

Technology, SEMCORP, Sumitomo Chemical, and Toray. The midstream sector consists of solid-state battery developers and manufacturers such as Toyota, QuantumScape, Solid Power, Samsung SDI, LG Energy Solution, CATL, BYD, WeLion, ProLogium, and Gotion High-Tech. Downstream applications are concentrated in electric vehicles, commercial vehicles, electric aviation, and advanced energy storage systems. Representative end users include Tesla, Toyota, Volkswagen, BMW, Mercedes-Benz, NIO, XPeng, Li Auto, and various powertrain integrators. As commercialization accelerates, collaboration among material suppliers, equipment manufacturers, battery producers, and automotive OEMs is becoming increasingly important.

The power solid-state battery market is currently transitioning from laboratory development to large-scale commercialization and is widely regarded as one of the most promising next-generation battery technologies. Growing demand for longer driving range, improved safety, and higher-performance power systems continues to drive investment from automotive OEMs and battery manufacturers. Industry competition is focused on achieving higher energy density, faster charging capability, longer cycle life, and enhanced safety performance, while sulfide, oxide, polymer, and composite electrolyte technologies continue to evolve in parallel. Collaboration among automakers, battery producers, and material suppliers is accelerating the development of integrated industrial ecosystems. Future advancements are expected to focus on fully solid-state architectures, high-nickel cathodes, lithium metal anodes, and intelligent battery management systems. However, the industry still faces challenges related to high manufacturing costs, complex large-scale production processes, interface stability issues, immature supply chains, and lengthy commercialization validation cycles. Continued technological innovation and cost reduction will remain essential for broader market adoption.

This report studies the global Power Solid State Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Solid State Battery and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Power Solid State Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Power Solid State Battery total production and demand, 2021-2032, (MW)

Global Power Solid State Battery Supply, Demand and Key Producers, 2026-2032

Global Power Solid State Battery total production value, 2021-2032, (USD Million)
Global Power Solid State Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)
Global Power Solid State Battery consumption by region & country, CAGR, 2021-2032 & (MW)
U.S. VS China: Power Solid State Battery domestic production, consumption, key domestic manufacturers and share
Global Power Solid State Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)
Global Power Solid State Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)
Global Power Solid State Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Power Solid State Battery market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SK Innovation, Samsung SDI, LG Energy Solution, QuantumScape, Solid Power, Enevate, Factorial Energy, NanoGraf, Ilika, Panasonic, 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 Power Solid State Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/KW) 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 Power Solid State Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Solid State Battery Market, Segmentation by Type:

All Solid State Battery

Semi Solid State Battery

Global Power Solid State Battery Market, Segmentation by Solid Electrolyte:

Sulfide Solid-State Battery

Oxide Solid-State Battery

Polymer Solid-State Battery

Others

Global Power Solid State Battery Market, Segmentation by Energy Density:

200-300 Wh/kg

300-400 Wh/kg

400-500 Wh/kg

Others

Global Power Solid State Battery Market, Segmentation by Application:

Electric Vehicles

Aerospace

Others

Companies Profiled:

SK Innovation

Samsung SDI

LG Energy Solution

QuantumScape

Solid Power

Enevate

Factorial Energy

NanoGraf

Ilika

Panasonic

Toyota

Hitachi

QingTao Energy

Weilan New Energy

Tailan New Energy

Ganfeng Lithium

GTC-Power

ProLogium Technology

CATL

Guoxuan High-Tech

BYD

Farasis Energy

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Power Solid State Battery Production Value by Manufacturer (2021-2026)

- 3.2 World Power Solid State Battery Production by Manufacturer (2021-2026)
- 3.3 World Power Solid State Battery Average Price by Manufacturer (2021-2026)
- 3.4 Power Solid State Battery Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Power Solid State Battery Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Power Solid State Battery in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Power Solid State Battery in 2025
- 3.6 Power Solid State Battery Market: Overall Company Footprint Analysis
 - 3.6.1 Power Solid State Battery Market: Region Footprint
 - 3.6.2 Power Solid State Battery Market: Company Product Type Footprint
 - 3.6.3 Power Solid State Battery Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Power Solid State Battery Production Value Comparison
 - 4.1.1 United States VS China: Power Solid State Battery Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Power Solid State Battery Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Power Solid State Battery Production Comparison
 - 4.2.1 United States VS China: Power Solid State Battery Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Power Solid State Battery Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Power Solid State Battery Consumption Comparison
 - 4.3.1 United States VS China: Power Solid State Battery Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Power Solid State Battery Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Power Solid State Battery Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Power Solid State Battery Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Power Solid State Battery Production Value (2021-2026)

4.4.3 United States Based Manufacturers Power Solid State Battery Production (2021-2026)

4.5 China Based Power Solid State Battery Manufacturers and Market Share

4.5.1 China Based Power Solid State Battery Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Power Solid State Battery Production Value (2021-2026)

4.5.3 China Based Manufacturers Power Solid State Battery Production (2021-2026)

4.6 Rest of World Based Power Solid State Battery Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Power Solid State Battery Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Power Solid State Battery Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Power Solid State Battery Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 All Solid State Battery

5.2.2 Semi Solid State Battery

5.3 Market Segment by Type

5.3.1 World Power Solid State Battery Production by Type (2021-2032)

5.3.2 World Power Solid State Battery Production Value by Type (2021-2032)

5.3.3 World Power Solid State Battery Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SOLID ELECTROLYTE

6.1 World Power Solid State Battery Market Size Overview by Solid Electrolyte: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Solid Electrolyte

6.2.1 Sulfide Solid-State Battery

6.2.2 Oxide Solid-State Battery

6.2.3 Polymer Solid-State Battery

6.2.4 Others

6.3 Market Segment by Solid Electrolyte

6.3.1 World Power Solid State Battery Production by Solid Electrolyte (2021-2032)

6.3.2 World Power Solid State Battery Production Value by Solid Electrolyte (2021-2032)

6.3.3 World Power Solid State Battery Average Price by Solid Electrolyte (2021-2032)

7 MARKET ANALYSIS BY ENERGY DENSITY

7.1 World Power Solid State Battery Market Size Overview by Energy Density: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Energy Density

7.2.1 200-300 Wh/kg

7.2.2 300-400 Wh/kg

7.2.3 400-500 Wh/kg

7.2.4 Others

7.3 Market Segment by Energy Density

7.3.1 World Power Solid State Battery Production by Energy Density (2021-2032)

7.3.2 World Power Solid State Battery Production Value by Energy Density (2021-2032)

7.3.3 World Power Solid State Battery Average Price by Energy Density (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Power Solid State Battery Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Electric Vehicles

8.2.2 Aerospace

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Power Solid State Battery Production by Application (2021-2032)

8.3.2 World Power Solid State Battery Production Value by Application (2021-2032)

8.3.3 World Power Solid State Battery Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 SK Innovation

9.1.1 SK Innovation Details

- 9.1.2 SK Innovation Major Business
- 9.1.3 SK Innovation Power Solid State Battery Product and Services
- 9.1.4 SK Innovation Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 SK Innovation Recent Developments/Updates
- 9.1.6 SK Innovation Competitive Strengths & Weaknesses
- 9.2 Samsung SDI
 - 9.2.1 Samsung SDI Details
 - 9.2.2 Samsung SDI Major Business
 - 9.2.3 Samsung SDI Power Solid State Battery Product and Services
 - 9.2.4 Samsung SDI Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Samsung SDI Recent Developments/Updates
 - 9.2.6 Samsung SDI 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 Power Solid State Battery Product and Services
 - 9.3.4 LG Energy Solution Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 LG Energy Solution Recent Developments/Updates
 - 9.3.6 LG Energy Solution Competitive Strengths & Weaknesses
- 9.4 QuantumScape
 - 9.4.1 QuantumScape Details
 - 9.4.2 QuantumScape Major Business
 - 9.4.3 QuantumScape Power Solid State Battery Product and Services
 - 9.4.4 QuantumScape Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 QuantumScape Recent Developments/Updates
 - 9.4.6 QuantumScape Competitive Strengths & Weaknesses
- 9.5 Solid Power
 - 9.5.1 Solid Power Details
 - 9.5.2 Solid Power Major Business
 - 9.5.3 Solid Power Power Solid State Battery Product and Services
 - 9.5.4 Solid Power Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Solid Power Recent Developments/Updates
 - 9.5.6 Solid Power Competitive Strengths & Weaknesses
- 9.6 Enevate

- 9.6.1 Enevate Details
- 9.6.2 Enevate Major Business
- 9.6.3 Enevate Power Solid State Battery Product and Services
- 9.6.4 Enevate Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Enevate Recent Developments/Updates
- 9.6.6 Enevate Competitive Strengths & Weaknesses
- 9.7 Factorial Energy
 - 9.7.1 Factorial Energy Details
 - 9.7.2 Factorial Energy Major Business
 - 9.7.3 Factorial Energy Power Solid State Battery Product and Services
 - 9.7.4 Factorial Energy Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Factorial Energy Recent Developments/Updates
 - 9.7.6 Factorial Energy Competitive Strengths & Weaknesses
- 9.8 NanoGraf
 - 9.8.1 NanoGraf Details
 - 9.8.2 NanoGraf Major Business
 - 9.8.3 NanoGraf Power Solid State Battery Product and Services
 - 9.8.4 NanoGraf Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 NanoGraf Recent Developments/Updates
 - 9.8.6 NanoGraf Competitive Strengths & Weaknesses
- 9.9 Ilika
 - 9.9.1 Ilika Details
 - 9.9.2 Ilika Major Business
 - 9.9.3 Ilika Power Solid State Battery Product and Services
 - 9.9.4 Ilika Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Ilika Recent Developments/Updates
 - 9.9.6 Ilika Competitive Strengths & Weaknesses
- 9.10 Panasonic
 - 9.10.1 Panasonic Details
 - 9.10.2 Panasonic Major Business
 - 9.10.3 Panasonic Power Solid State Battery Product and Services
 - 9.10.4 Panasonic Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Panasonic Recent Developments/Updates
 - 9.10.6 Panasonic Competitive Strengths & Weaknesses

9.11 Toyota

9.11.1 Toyota Details

9.11.2 Toyota Major Business

9.11.3 Toyota Power Solid State Battery Product and Services

9.11.4 Toyota Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Toyota Recent Developments/Updates

9.11.6 Toyota Competitive Strengths & Weaknesses

9.12 Hitachi

9.12.1 Hitachi Details

9.12.2 Hitachi Major Business

9.12.3 Hitachi Power Solid State Battery Product and Services

9.12.4 Hitachi Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Hitachi Recent Developments/Updates

9.12.6 Hitachi Competitive Strengths & Weaknesses

9.13 QingTao Energy

9.13.1 QingTao Energy Details

9.13.2 QingTao Energy Major Business

9.13.3 QingTao Energy Power Solid State Battery Product and Services

9.13.4 QingTao Energy Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 QingTao Energy Recent Developments/Updates

9.13.6 QingTao Energy Competitive Strengths & Weaknesses

9.14 Weilan New Energy

9.14.1 Weilan New Energy Details

9.14.2 Weilan New Energy Major Business

9.14.3 Weilan New Energy Power Solid State Battery Product and Services

9.14.4 Weilan New Energy Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Weilan New Energy Recent Developments/Updates

9.14.6 Weilan New Energy Competitive Strengths & Weaknesses

9.15 Tailan New Energy

9.15.1 Tailan New Energy Details

9.15.2 Tailan New Energy Major Business

9.15.3 Tailan New Energy Power Solid State Battery Product and Services

9.15.4 Tailan New Energy Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Tailan New Energy Recent Developments/Updates

- 9.15.6 Tailan New Energy Competitive Strengths & Weaknesses
- 9.16 Ganfeng Lithium
 - 9.16.1 Ganfeng Lithium Details
 - 9.16.2 Ganfeng Lithium Major Business
 - 9.16.3 Ganfeng Lithium Power Solid State Battery Product and Services
 - 9.16.4 Ganfeng Lithium Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Ganfeng Lithium Recent Developments/Updates
 - 9.16.6 Ganfeng Lithium Competitive Strengths & Weaknesses
- 9.17 GTC-Power
 - 9.17.1 GTC-Power Details
 - 9.17.2 GTC-Power Major Business
 - 9.17.3 GTC-Power Power Solid State Battery Product and Services
 - 9.17.4 GTC-Power Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 GTC-Power Recent Developments/Updates
 - 9.17.6 GTC-Power Competitive Strengths & Weaknesses
- 9.18 ProLogium Technology
 - 9.18.1 ProLogium Technology Details
 - 9.18.2 ProLogium Technology Major Business
 - 9.18.3 ProLogium Technology Power Solid State Battery Product and Services
 - 9.18.4 ProLogium Technology Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 ProLogium Technology Recent Developments/Updates
 - 9.18.6 ProLogium Technology Competitive Strengths & Weaknesses
- 9.19 CATL
 - 9.19.1 CATL Details
 - 9.19.2 CATL Major Business
 - 9.19.3 CATL Power Solid State Battery Product and Services
 - 9.19.4 CATL Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 CATL Recent Developments/Updates
 - 9.19.6 CATL Competitive Strengths & Weaknesses
- 9.20 Guoxuan High-Tech
 - 9.20.1 Guoxuan High-Tech Details
 - 9.20.2 Guoxuan High-Tech Major Business
 - 9.20.3 Guoxuan High-Tech Power Solid State Battery Product and Services
 - 9.20.4 Guoxuan High-Tech Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Guoxuan High-Tech Recent Developments/Updates

9.20.6 Guoxuan High-Tech Competitive Strengths & Weaknesses

9.21 BYD

9.21.1 BYD Details

9.21.2 BYD Major Business

9.21.3 BYD Power Solid State Battery Product and Services

9.21.4 BYD Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.21.5 BYD Recent Developments/Updates

9.21.6 BYD Competitive Strengths & Weaknesses

9.22 Farasis Energy

9.22.1 Farasis Energy Details

9.22.2 Farasis Energy Major Business

9.22.3 Farasis Energy Power Solid State Battery Product and Services

9.22.4 Farasis Energy Power Solid State Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 Farasis Energy Recent Developments/Updates

9.22.6 Farasis Energy Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Power Solid State Battery Industry Chain

10.2 Power Solid State Battery Upstream Analysis

10.2.1 Power Solid State Battery Core Raw Materials

10.2.2 Main Manufacturers of Power Solid State Battery Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Power Solid State Battery Production Mode

10.6 Power Solid State Battery Procurement Model

10.7 Power Solid State Battery Industry Sales Model and Sales Channels

10.7.1 Power Solid State Battery Sales Model

10.7.2 Power Solid State Battery Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

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

Table 2. World Power Solid State Battery Production Value by Region (2021-2026) & (USD Million)

Table 3. World Power Solid State Battery Production Value by Region (2027-2032) & (USD Million)

Table 4. World Power Solid State Battery Production Value Market Share by Region (2021-2026)

Table 5. World Power Solid State Battery Production Value Market Share by Region (2027-2032)

Table 6. World Power Solid State Battery Production by Region (2021-2026) & (MW)

Table 7. World Power Solid State Battery Production by Region (2027-2032) & (MW)

Table 8. World Power Solid State Battery Production Market Share by Region (2021-2026)

Table 9. World Power Solid State Battery Production Market Share by Region (2027-2032)

Table 10. World Power Solid State Battery Average Price by Region (2021-2026) & (US\$/KW)

Table 11. World Power Solid State Battery Average Price by Region (2027-2032) & (US\$/KW)

Table 12. Power Solid State Battery Major Market Trends

Table 13. World Power Solid State Battery Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (MW)

Table 14. World Power Solid State Battery Consumption by Region (2021-2026) & (MW)

Table 15. World Power Solid State Battery Consumption Forecast by Region (2027-2032) & (MW)

Table 16. World Power Solid State Battery Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Power Solid State Battery Producers in 2025

Table 18. World Power Solid State Battery Production by Manufacturer (2021-2026) & (MW)

Table 19. Production Market Share of Key Power Solid State Battery Producers in 2025

Table 20. World Power Solid State Battery Average Price by Manufacturer (2021-2026)

& (US\$/KW)

Table 21. Global Power Solid State Battery Company Evaluation Quadrant

Table 22. World Power Solid State Battery Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Power Solid State Battery Production Site of Key Manufacturer

Table 24. Power Solid State Battery Market: Company Product Type Footprint

Table 25. Power Solid State Battery Market: Company Product Application Footprint

Table 26. Power Solid State Battery Competitive Factors

Table 27. Power Solid State Battery New Entrant and Capacity Expansion Plans

Table 28. Power Solid State Battery Mergers & Acquisitions Activity

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

Table 30. United States VS China Power Solid State Battery Production Comparison, (2021 & 2025 & 2032) & (MW)

Table 31. United States VS China Power Solid State Battery Consumption Comparison, (2021 & 2025 & 2032) & (MW)

Table 32. United States Based Power Solid State Battery Manufacturers, Headquarters and Production Site (States, Country)

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

Table 34. United States Based Manufacturers Power Solid State Battery Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Power Solid State Battery Production (2021-2026) & (MW)

Table 36. United States Based Manufacturers Power Solid State Battery Production Market Share (2021-2026)

Table 37. China Based Power Solid State Battery Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Power Solid State Battery Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Power Solid State Battery Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Power Solid State Battery Production, (2021-2026) & (MW)

Table 41. China Based Manufacturers Power Solid State Battery Production Market Share (2021-2026)

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

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

Table 44. Rest of World Based Manufacturers Power Solid State Battery Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Power Solid State Battery Production, (2021-2026) & (MW)

Table 46. Rest of World Based Manufacturers Power Solid State Battery Production Market Share (2021-2026)

Table 47. World Power Solid State Battery Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Power Solid State Battery Production by Type (2021-2026) & (MW)

Table 49. World Power Solid State Battery Production by Type (2027-2032) & (MW)

Table 50. World Power Solid State Battery Production Value by Type (2021-2026) & (USD Million)

Table 51. World Power Solid State Battery Production Value by Type (2027-2032) & (USD Million)

Table 52. World Power Solid State Battery Average Price by Type (2021-2026) & (US\$/KW)

Table 53. World Power Solid State Battery Average Price by Type (2027-2032) & (US\$/KW)

Table 54. World Power Solid State Battery Production Value by Solid Electrolyte, (USD Million), 2021 & 2025 & 2032

Table 55. World Power Solid State Battery Production by Solid Electrolyte (2021-2026) & (MW)

Table 56. World Power Solid State Battery Production by Solid Electrolyte (2027-2032) & (MW)

Table 57. World Power Solid State Battery Production Value by Solid Electrolyte (2021-2026) & (USD Million)

Table 58. World Power Solid State Battery Production Value by Solid Electrolyte (2027-2032) & (USD Million)

Table 59. World Power Solid State Battery Average Price by Solid Electrolyte (2021-2026) & (US\$/KW)

Table 60. World Power Solid State Battery Average Price by Solid Electrolyte (2027-2032) & (US\$/KW)

Table 61. World Power Solid State Battery Production Value by Energy Density, (USD Million), 2021 & 2025 & 2032

Table 62. World Power Solid State Battery Production by Energy Density (2021-2026) & (MW)

Table 63. World Power Solid State Battery Production by Energy Density (2027-2032) &

(MW)

Table 64. World Power Solid State Battery Production Value by Energy Density (2021-2026) & (USD Million)

Table 65. World Power Solid State Battery Production Value by Energy Density (2027-2032) & (USD Million)

Table 66. World Power Solid State Battery Average Price by Energy Density (2021-2026) & (US\$/KW)

Table 67. World Power Solid State Battery Average Price by Energy Density (2027-2032) & (US\$/KW)

Table 68. World Power Solid State Battery Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Power Solid State Battery Production by Application (2021-2026) & (MW)

Table 70. World Power Solid State Battery Production by Application (2027-2032) & (MW)

Table 71. World Power Solid State Battery Production Value by Application (2021-2026) & (USD Million)

Table 72. World Power Solid State Battery Production Value by Application (2027-2032) & (USD Million)

Table 73. World Power Solid State Battery Average Price by Application (2021-2026) & (US\$/KW)

Table 74. World Power Solid State Battery Average Price by Application (2027-2032) & (US\$/KW)

Table 75. SK Innovation Basic Information, Manufacturing Base and Competitors

Table 76. SK Innovation Major Business

Table 77. SK Innovation Power Solid State Battery Product and Services

Table 78. SK Innovation Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. SK Innovation Recent Developments/Updates

Table 80. SK Innovation Competitive Strengths & Weaknesses

Table 81. Samsung SDI Basic Information, Manufacturing Base and Competitors

Table 82. Samsung SDI Major Business

Table 83. Samsung SDI Power Solid State Battery Product and Services

Table 84. Samsung SDI Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Samsung SDI Recent Developments/Updates

Table 86. Samsung SDI 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 Power Solid State Battery Product and Services
Table 90. LG Energy Solution Power Solid State Battery Production (MW), Price (US\$/KW), 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. QuantumScape Basic Information, Manufacturing Base and Competitors
Table 94. QuantumScape Major Business
Table 95. QuantumScape Power Solid State Battery Product and Services
Table 96. QuantumScape Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. QuantumScape Recent Developments/Updates
Table 98. QuantumScape Competitive Strengths & Weaknesses
Table 99. Solid Power Basic Information, Manufacturing Base and Competitors
Table 100. Solid Power Major Business
Table 101. Solid Power Power Solid State Battery Product and Services
Table 102. Solid Power Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Solid Power Recent Developments/Updates
Table 104. Solid Power Competitive Strengths & Weaknesses
Table 105. Enevate Basic Information, Manufacturing Base and Competitors
Table 106. Enevate Major Business
Table 107. Enevate Power Solid State Battery Product and Services
Table 108. Enevate Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Enevate Recent Developments/Updates
Table 110. Enevate Competitive Strengths & Weaknesses
Table 111. Factorial Energy Basic Information, Manufacturing Base and Competitors
Table 112. Factorial Energy Major Business
Table 113. Factorial Energy Power Solid State Battery Product and Services
Table 114. Factorial Energy Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Factorial Energy Recent Developments/Updates
Table 116. Factorial Energy Competitive Strengths & Weaknesses
Table 117. NanoGraf Basic Information, Manufacturing Base and Competitors
Table 118. NanoGraf Major Business
Table 119. NanoGraf Power Solid State Battery Product and Services
Table 120. NanoGraf Power Solid State Battery Production (MW), Price (US\$/KW),

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

Table 121. NanoGraf Recent Developments/Updates

Table 122. NanoGraf Competitive Strengths & Weaknesses

Table 123. Ilika Basic Information, Manufacturing Base and Competitors

Table 124. Ilika Major Business

Table 125. Ilika Power Solid State Battery Product and Services

Table 126. Ilika Power Solid State Battery Production (MW), Price (US\$/KW),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Ilika Recent Developments/Updates

Table 128. Ilika Competitive Strengths & Weaknesses

Table 129. Panasonic Basic Information, Manufacturing Base and Competitors

Table 130. Panasonic Major Business

Table 131. Panasonic Power Solid State Battery Product and Services

Table 132. Panasonic Power Solid State Battery Production (MW), Price (US\$/KW),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Panasonic Recent Developments/Updates

Table 134. Panasonic Competitive Strengths & Weaknesses

Table 135. Toyota Basic Information, Manufacturing Base and Competitors

Table 136. Toyota Major Business

Table 137. Toyota Power Solid State Battery Product and Services

Table 138. Toyota Power Solid State Battery Production (MW), Price (US\$/KW),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Toyota Recent Developments/Updates

Table 140. Toyota Competitive Strengths & Weaknesses

Table 141. Hitachi Basic Information, Manufacturing Base and Competitors

Table 142. Hitachi Major Business

Table 143. Hitachi Power Solid State Battery Product and Services

Table 144. Hitachi Power Solid State Battery Production (MW), Price (US\$/KW),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Hitachi Recent Developments/Updates

Table 146. Hitachi Competitive Strengths & Weaknesses

Table 147. QingTao Energy Basic Information, Manufacturing Base and Competitors

Table 148. QingTao Energy Major Business

Table 149. QingTao Energy Power Solid State Battery Product and Services

Table 150. QingTao Energy Power Solid State Battery Production (MW), Price
(US\$/KW), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 151. QingTao Energy Recent Developments/Updates

Table 152. QingTao Energy Competitive Strengths & Weaknesses

Table 153. Weilan New Energy Basic Information, Manufacturing Base and Competitors

Table 154. Weilan New Energy Major Business

Table 155. Weilan New Energy Power Solid State Battery Product and Services

Table 156. Weilan New Energy Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Weilan New Energy Recent Developments/Updates

Table 158. Weilan New Energy Competitive Strengths & Weaknesses

Table 159. Tailan New Energy Basic Information, Manufacturing Base and Competitors

Table 160. Tailan New Energy Major Business

Table 161. Tailan New Energy Power Solid State Battery Product and Services

Table 162. Tailan New Energy Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Tailan New Energy Recent Developments/Updates

Table 164. Tailan New Energy Competitive Strengths & Weaknesses

Table 165. Ganfeng Lithium Basic Information, Manufacturing Base and Competitors

Table 166. Ganfeng Lithium Major Business

Table 167. Ganfeng Lithium Power Solid State Battery Product and Services

Table 168. Ganfeng Lithium Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Ganfeng Lithium Recent Developments/Updates

Table 170. Ganfeng Lithium Competitive Strengths & Weaknesses

Table 171. GTC-Power Basic Information, Manufacturing Base and Competitors

Table 172. GTC-Power Major Business

Table 173. GTC-Power Power Solid State Battery Product and Services

Table 174. GTC-Power Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. GTC-Power Recent Developments/Updates

Table 176. GTC-Power Competitive Strengths & Weaknesses

Table 177. ProLogium Technology Basic Information, Manufacturing Base and Competitors

Table 178. ProLogium Technology Major Business

Table 179. ProLogium Technology Power Solid State Battery Product and Services

Table 180. ProLogium Technology Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. ProLogium Technology Recent Developments/Updates

Table 182. ProLogium Technology Competitive Strengths & Weaknesses
Table 183. CATL Basic Information, Manufacturing Base and Competitors
Table 184. CATL Major Business
Table 185. CATL Power Solid State Battery Product and Services
Table 186. CATL Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 187. CATL Recent Developments/Updates
Table 188. CATL Competitive Strengths & Weaknesses
Table 189. Guoxuan High-Tech Basic Information, Manufacturing Base and Competitors
Table 190. Guoxuan High-Tech Major Business
Table 191. Guoxuan High-Tech Power Solid State Battery Product and Services
Table 192. Guoxuan High-Tech Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 193. Guoxuan High-Tech Recent Developments/Updates
Table 194. Guoxuan High-Tech Competitive Strengths & Weaknesses
Table 195. BYD Basic Information, Manufacturing Base and Competitors
Table 196. BYD Major Business
Table 197. BYD Power Solid State Battery Product and Services
Table 198. BYD Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 199. BYD Recent Developments/Updates
Table 200. BYD Competitive Strengths & Weaknesses
Table 201. Farasis Energy Basic Information, Manufacturing Base and Competitors
Table 202. Farasis Energy Major Business
Table 203. Farasis Energy Power Solid State Battery Product and Services
Table 204. Farasis Energy Power Solid State Battery Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 205. Farasis Energy Recent Developments/Updates
Table 206. Farasis Energy Competitive Strengths & Weaknesses
Table 207. Global Key Players of Power Solid State Battery Upstream (Raw Materials)
Table 208. Global Power Solid State Battery Typical Customers
Table 209. Power Solid State Battery Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Power Solid State Battery Picture

Figure 2. World Power Solid State Battery Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Power Solid State Battery Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Power Solid State Battery Production (2021-2032) & (MW)

Figure 5. World Power Solid State Battery Average Price (2021-2032) & (US\$/KW)

Figure 6. World Power Solid State Battery Production Value Market Share by Region (2021-2032)

Figure 7. World Power Solid State Battery Production Market Share by Region (2021-2032)

Figure 8. North America Power Solid State Battery Production (2021-2032) & (MW)

Figure 9. Europe Power Solid State Battery Production (2021-2032) & (MW)

Figure 10. China Power Solid State Battery Production (2021-2032) & (MW)

Figure 11. Japan Power Solid State Battery Production (2021-2032) & (MW)

Figure 12. Power Solid State Battery Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Power Solid State Battery Consumption (2021-2032) & (MW)

Figure 15. World Power Solid State Battery Consumption Market Share by Region (2021-2032)

Figure 16. United States Power Solid State Battery Consumption (2021-2032) & (MW)

Figure 17. China Power Solid State Battery Consumption (2021-2032) & (MW)

Figure 18. Europe Power Solid State Battery Consumption (2021-2032) & (MW)

Figure 19. Japan Power Solid State Battery Consumption (2021-2032) & (MW)

Figure 20. South Korea Power Solid State Battery Consumption (2021-2032) & (MW)

Figure 21. ASEAN Power Solid State Battery Consumption (2021-2032) & (MW)

Figure 22. India Power Solid State Battery Consumption (2021-2032) & (MW)

Figure 23. Producer Shipments of Power Solid State Battery by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Power Solid State Battery Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Power Solid State Battery Markets in 2025

Figure 26. United States VS China: Power Solid State Battery Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Power Solid State Battery Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Power Solid State Battery Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Power Solid State Battery Production Market Share 2025

Figure 30. China Based Manufacturers Power Solid State Battery Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Power Solid State Battery Production Market Share 2025

Figure 32. World Power Solid State Battery Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Power Solid State Battery Production Value Market Share by Type in 2025

Figure 34. All Solid State Battery

Figure 35. Semi Solid State Battery

Figure 36. World Power Solid State Battery Production Market Share by Type (2021-2032)

Figure 37. World Power Solid State Battery Production Value Market Share by Type (2021-2032)

Figure 38. World Power Solid State Battery Average Price by Type (2021-2032) & (US\$/KW)

Figure 39. World Power Solid State Battery Production Value by Solid Electrolyte, (USD Million), 2021 & 2025 & 2032

Figure 40. World Power Solid State Battery Production Value Market Share by Solid Electrolyte in 2025

Figure 41. Sulfide Solid-State Battery

Figure 42. Oxide Solid-State Battery

Figure 43. Polymer Solid-State Battery

Figure 44. Others

Figure 45. World Power Solid State Battery Production Market Share by Solid Electrolyte (2021-2032)

Figure 46. World Power Solid State Battery Production Value Market Share by Solid Electrolyte (2021-2032)

Figure 47. World Power Solid State Battery Average Price by Solid Electrolyte (2021-2032) & (US\$/KW)

Figure 48. World Power Solid State Battery Production Value by Energy Density, (USD Million), 2021 & 2025 & 2032

Figure 49. World Power Solid State Battery Production Value Market Share by Energy

Density in 2025

Figure 50. 200-300 Wh/kg

Figure 51. 300-400 Wh/kg

Figure 52. 400-500 Wh/kg

Figure 53. Others

Figure 54. World Power Solid State Battery Production Market Share by Energy Density (2021-2032)

Figure 55. World Power Solid State Battery Production Value Market Share by Energy Density (2021-2032)

Figure 56. World Power Solid State Battery Average Price by Energy Density (2021-2032) & (US\$/KW)

Figure 57. World Power Solid State Battery Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Power Solid State Battery Production Value Market Share by Application in 2025

Figure 59. Electric Vehicles

Figure 60. Aerospace

Figure 61. Others

Figure 62. World Power Solid State Battery Production Market Share by Application (2021-2032)

Figure 63. World Power Solid State Battery Production Value Market Share by Application (2021-2032)

Figure 64. World Power Solid State Battery Average Price by Application (2021-2032) & (US\$/KW)

Figure 65. Power Solid State Battery Industry Chain

Figure 66. Power Solid State Battery Procurement Model

Figure 67. Power Solid State Battery Sales Model

Figure 68. Power Solid State Battery Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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