

Global Lithium Supercapacitor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lithium Supercapacitor market size is expected to reach \$ 56.75 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

Lithium supercapacitors are asymmetric hybrid electrochemical energy storage devices. The positive electrode typically uses activated carbon or other porous carbon materials, storing charge through electrical double-layer adsorption. The negative electrode typically uses pre-lithiated graphite, hard carbon, or other lithium-intercalated carbon materials, storing energy through the insertion and extraction of lithium ions. Pre-lithiation reduces the negative electrode potential, allowing LICs to achieve higher single-cell operating voltage and energy density than traditional double-layer supercapacitors. Commercial LIC cells typically have rated voltages of approximately 3.5 to 4.0 V and capacities exceeding 4,000 F, combining fast charging and discharging, high power density, long cycle life, low self-discharge, and high safety. Compared to traditional EDLCs, LICs offer higher operating voltage and energy density; compared to lithium-ion batteries, they have shorter continuous energy storage time but superior peak power, cycle life, and fast charging performance. They are primarily used in smart meters, IoT terminals, industrial power failure protection, voltage drop compensation, rail transit energy recovery, automated logistics equipment, and short-term high-power energy storage. In 2025, the global production of Lithium Supercapacitors is estimated at 5.25 million units, with an average price of about US\$6 per unit and a gross profit margin of about 27%.

The Lithium Supercapacitor market is evolving from conventional smart-meter and small backup-power applications toward high-reliability, short-duration energy storage and high-frequency power-regulation platforms. Cyclical peak loads generated by AI server training and inference are creating demand for rack-level storage devices that provide

millisecond response, withstand frequent cycling, and offer predictable service life. Demand is also rising for voltage-sag mitigation in semiconductor manufacturing, power-sensitive industrial processes, and critical electrical infrastructure. Regenerative braking in rail transportation, rapid charging for AGVs and AMRs, port equipment, smart meters, remote trackers, and long-standby IoT devices are further expanding the addressable market. Partnerships between leading cell producers and power-system suppliers, together with new investment in large-format prismatic cell capacity, indicate that the industry is progressing from technical validation toward scaled commercial deployment.

Market expansion nevertheless remains constrained by significant technical and commercial barriers. Although LIC energy density is materially higher than that of conventional electric double-layer capacitors, it remains below that of mainstream lithium-ion batteries and is therefore unsuitable for hour-scale energy storage. Pre-lithiation, moisture control, electrolyte matching, and interphase stability directly affect consistency, cycle life, and production yield. LIC systems must also maintain a minimum operating voltage and generally require cell balancing and condition monitoring when connected in series, increasing system complexity. In addition, lithium iron phosphate batteries, conventional supercapacitors, and high-rate lithium-ion batteries compete across different power and discharge-duration ranges. Other risks include inconsistent product terminology, fragmented market definitions, long customer qualification cycles, and concentrated supply of specialized materials.

The future product mix is expected to become increasingly polarized. Small 3.5 V to 4.2 V products rated at 10 F to 200 F will continue to serve smart meters, IoT terminals, tracking devices, energy harvesting, and embedded hold-up power, where miniaturization, low leakage current, and cost are the principal competitive factors. Large 500 F to 3,000 F cylindrical and prismatic cells will increasingly target AI server racks, industrial voltage-sag compensation, rail transportation, and heavy mobile equipment, where low resistance, thermal management, system safety, and lifetime guarantees are critical. Customers are also moving from purchasing discrete cells toward qualified modules, rack-level storage products, and complete power systems. Consequently, a larger share of industry value and margin is expected to migrate toward balancing management, condition monitoring, power electronics, system certification, and lifecycle services.

This report studies the global Lithium Supercapacitor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium Supercapacitor 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 Lithium Supercapacitor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lithium Supercapacitor total production and demand, 2021-2032, (K Units)

Global Lithium Supercapacitor total production value, 2021-2032, (USD Million)

Global Lithium Supercapacitor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Lithium Supercapacitor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Lithium Supercapacitor domestic production, consumption, key domestic manufacturers and share

Global Lithium Supercapacitor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Lithium Supercapacitor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Lithium Supercapacitor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Lithium Supercapacitor 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 Musashi Energy Solutions Co., Ltd., JTEKT Corporation, TAIYO YUDEN CO., LTD., VINATech Co., Ltd., Eaton, CAP-XX Limited, LiCAP Technologies, SPEL Technologies Private Limited, Nantong Jianghai Capacitor Co., Ltd., Shenzhen TIG Technology Co., Ltd., 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 Lithium Supercapacitor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Lithium Supercapacitor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium Supercapacitor Market, Segmentation by Type:

1000F

Global Lithium Supercapacitor Market, Segmentation by Electrode Construction:

Wound Electrode Type

Stacked Electrode Type

Others

Global Lithium Supercapacitor Market, Segmentation by Cell Form Factor:

Radial Leaded Can Type

Large Cylindrical Type

Prismatic Or Laminated Type

Others

Global Lithium Supercapacitor Market, Segmentation by Application:

Smart Metering, IoT And Embedded Backup

Industrial Power Quality, UPS And Data Centers

Transportation, Regenerative Braking And Automated Logistics

Others

Companies Profiled:

Musashi Energy Solutions Co., Ltd.

JTEKT Corporation

TAIYO YUDEN CO., LTD.

VINATech Co., Ltd.

Eaton

CAP-XX Limited

LiCAP Technologies

SPEL Technologies Private Limited

Nantong Jianghai Capacitor Co., Ltd.

Shenzhen TIG Technology Co., Ltd.

Shanghai Yongming Electronic Co., Ltd.

Wuhan Lixing Torch Power Sources Co., Ltd.

Shanghai Green Tech Co., Ltd.

CRRC New Energy

CGDG

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

Production Site (States, Country)

4.4.2 United States Based Manufacturers Lithium Supercapacitor Production Value (2021-2026)

4.4.3 United States Based Manufacturers Lithium Supercapacitor Production (2021-2026)

4.5 China Based Lithium Supercapacitor Manufacturers and Market Share

4.5.1 China Based Lithium Supercapacitor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Lithium Supercapacitor Production Value (2021-2026)

4.5.3 China Based Manufacturers Lithium Supercapacitor Production (2021-2026)

4.6 Rest of World Based Lithium Supercapacitor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Lithium Supercapacitor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Lithium Supercapacitor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Lithium Supercapacitor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Lithium Supercapacitor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 1000F

5.3 Market Segment by Type

5.3.1 World Lithium Supercapacitor Production by Type (2021-2032)

5.3.2 World Lithium Supercapacitor Production Value by Type (2021-2032)

5.3.3 World Lithium Supercapacitor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ELECTRODE CONSTRUCTION

6.1 World Lithium Supercapacitor Market Size Overview by Electrode Construction: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Electrode Construction

6.2.1 Wound Electrode Type

6.2.2 Stacked Electrode Type

6.2.3 Others

6.3 Market Segment by Electrode Construction

6.3.1 World Lithium Supercapacitor Production by Electrode Construction (2021-2032)

6.3.2 World Lithium Supercapacitor Production Value by Electrode Construction (2021-2032)

6.3.3 World Lithium Supercapacitor Average Price by Electrode Construction (2021-2032)

7 MARKET ANALYSIS BY CELL FORM FACTOR

7.1 World Lithium Supercapacitor Market Size Overview by Cell Form Factor: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Cell Form Factor

7.2.1 Radial Leaded Can Type

7.2.2 Large Cylindrical Type

7.2.3 Prismatic Or Laminated Type

7.2.4 Others

7.3 Market Segment by Cell Form Factor

7.3.1 World Lithium Supercapacitor Production by Cell Form Factor (2021-2032)

7.3.2 World Lithium Supercapacitor Production Value by Cell Form Factor (2021-2032)

7.3.3 World Lithium Supercapacitor Average Price by Cell Form Factor (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Lithium Supercapacitor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Smart Metering, IoT And Embedded Backup

8.2.2 Industrial Power Quality, UPS And Data Centers

8.2.3 Transportation, Regenerative Braking And Automated Logistics

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Lithium Supercapacitor Production by Application (2021-2032)

8.3.2 World Lithium Supercapacitor Production Value by Application (2021-2032)

8.3.3 World Lithium Supercapacitor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Musashi Energy Solutions Co., Ltd.

9.1.1 Musashi Energy Solutions Co., Ltd. Details

- 9.1.2 Musashi Energy Solutions Co., Ltd. Major Business
- 9.1.3 Musashi Energy Solutions Co., Ltd. Lithium Supercapacitor Product and Services
- 9.1.4 Musashi Energy Solutions Co., Ltd. Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Musashi Energy Solutions Co., Ltd. Recent Developments/Updates
- 9.1.6 Musashi Energy Solutions Co., Ltd. Competitive Strengths & Weaknesses
- 9.2 JTEKT Corporation
 - 9.2.1 JTEKT Corporation Details
 - 9.2.2 JTEKT Corporation Major Business
 - 9.2.3 JTEKT Corporation Lithium Supercapacitor Product and Services
 - 9.2.4 JTEKT Corporation Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 JTEKT Corporation Recent Developments/Updates
 - 9.2.6 JTEKT Corporation Competitive Strengths & Weaknesses
- 9.3 TAIYO YUDEN CO., LTD.
 - 9.3.1 TAIYO YUDEN CO., LTD. Details
 - 9.3.2 TAIYO YUDEN CO., LTD. Major Business
 - 9.3.3 TAIYO YUDEN CO., LTD. Lithium Supercapacitor Product and Services
 - 9.3.4 TAIYO YUDEN CO., LTD. Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 TAIYO YUDEN CO., LTD. Recent Developments/Updates
 - 9.3.6 TAIYO YUDEN CO., LTD. Competitive Strengths & Weaknesses
- 9.4 VINATech Co., Ltd.
 - 9.4.1 VINATech Co., Ltd. Details
 - 9.4.2 VINATech Co., Ltd. Major Business
 - 9.4.3 VINATech Co., Ltd. Lithium Supercapacitor Product and Services
 - 9.4.4 VINATech Co., Ltd. Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 VINATech Co., Ltd. Recent Developments/Updates
 - 9.4.6 VINATech Co., Ltd. Competitive Strengths & Weaknesses
- 9.5 Eaton
 - 9.5.1 Eaton Details
 - 9.5.2 Eaton Major Business
 - 9.5.3 Eaton Lithium Supercapacitor Product and Services
 - 9.5.4 Eaton Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Eaton Recent Developments/Updates
 - 9.5.6 Eaton Competitive Strengths & Weaknesses
- 9.6 CAP-XX Limited

- 9.6.1 CAP-XX Limited Details
- 9.6.2 CAP-XX Limited Major Business
- 9.6.3 CAP-XX Limited Lithium Supercapacitor Product and Services
- 9.6.4 CAP-XX Limited Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 CAP-XX Limited Recent Developments/Updates
- 9.6.6 CAP-XX Limited Competitive Strengths & Weaknesses
- 9.7 LiCAP Technologies
 - 9.7.1 LiCAP Technologies Details
 - 9.7.2 LiCAP Technologies Major Business
 - 9.7.3 LiCAP Technologies Lithium Supercapacitor Product and Services
 - 9.7.4 LiCAP Technologies Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 LiCAP Technologies Recent Developments/Updates
 - 9.7.6 LiCAP Technologies Competitive Strengths & Weaknesses
- 9.8 SPEL Technologies Private Limited
 - 9.8.1 SPEL Technologies Private Limited Details
 - 9.8.2 SPEL Technologies Private Limited Major Business
 - 9.8.3 SPEL Technologies Private Limited Lithium Supercapacitor Product and Services
 - 9.8.4 SPEL Technologies Private Limited Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 SPEL Technologies Private Limited Recent Developments/Updates
 - 9.8.6 SPEL Technologies Private Limited Competitive Strengths & Weaknesses
- 9.9 Nantong Jianghai Capacitor Co., Ltd.
 - 9.9.1 Nantong Jianghai Capacitor Co., Ltd. Details
 - 9.9.2 Nantong Jianghai Capacitor Co., Ltd. Major Business
 - 9.9.3 Nantong Jianghai Capacitor Co., Ltd. Lithium Supercapacitor Product and Services
 - 9.9.4 Nantong Jianghai Capacitor Co., Ltd. Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Nantong Jianghai Capacitor Co., Ltd. Recent Developments/Updates
 - 9.9.6 Nantong Jianghai Capacitor Co., Ltd. Competitive Strengths & Weaknesses
- 9.10 Shenzhen TIG Technology Co., Ltd.
 - 9.10.1 Shenzhen TIG Technology Co., Ltd. Details
 - 9.10.2 Shenzhen TIG Technology Co., Ltd. Major Business
 - 9.10.3 Shenzhen TIG Technology Co., Ltd. Lithium Supercapacitor Product and Services
 - 9.10.4 Shenzhen TIG Technology Co., Ltd. Lithium Supercapacitor Production, Price,

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

9.10.5 Shenzhen TIG Technology Co., Ltd. Recent Developments/Updates

9.10.6 Shenzhen TIG Technology Co., Ltd. Competitive Strengths & Weaknesses

9.11 Shanghai Yongming Electronic Co., Ltd.

9.11.1 Shanghai Yongming Electronic Co., Ltd. Details

9.11.2 Shanghai Yongming Electronic Co., Ltd. Major Business

9.11.3 Shanghai Yongming Electronic Co., Ltd. Lithium Supercapacitor Product and Services

9.11.4 Shanghai Yongming Electronic Co., Ltd. Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Shanghai Yongming Electronic Co., Ltd. Recent Developments/Updates

9.11.6 Shanghai Yongming Electronic Co., Ltd. Competitive Strengths & Weaknesses

9.12 Wuhan Lixing Torch Power Sources Co., Ltd.

9.12.1 Wuhan Lixing Torch Power Sources Co., Ltd. Details

9.12.2 Wuhan Lixing Torch Power Sources Co., Ltd. Major Business

9.12.3 Wuhan Lixing Torch Power Sources Co., Ltd. Lithium Supercapacitor Product and Services

9.12.4 Wuhan Lixing Torch Power Sources Co., Ltd. Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Wuhan Lixing Torch Power Sources Co., Ltd. Recent Developments/Updates

9.12.6 Wuhan Lixing Torch Power Sources Co., Ltd. Competitive Strengths & Weaknesses

9.13 Shanghai Green Tech Co., Ltd.

9.13.1 Shanghai Green Tech Co., Ltd. Details

9.13.2 Shanghai Green Tech Co., Ltd. Major Business

9.13.3 Shanghai Green Tech Co., Ltd. Lithium Supercapacitor Product and Services

9.13.4 Shanghai Green Tech Co., Ltd. Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Shanghai Green Tech Co., Ltd. Recent Developments/Updates

9.13.6 Shanghai Green Tech Co., Ltd. Competitive Strengths & Weaknesses

9.14 CRRC New Energy

9.14.1 CRRC New Energy Details

9.14.2 CRRC New Energy Major Business

9.14.3 CRRC New Energy Lithium Supercapacitor Product and Services

9.14.4 CRRC New Energy Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 CRRC New Energy Recent Developments/Updates

9.14.6 CRRC New Energy Competitive Strengths & Weaknesses

9.15 CGDG

- 9.15.1 CGDG Details
- 9.15.2 CGDG Major Business
- 9.15.3 CGDG Lithium Supercapacitor Product and Services
- 9.15.4 CGDG Lithium Supercapacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 CGDG Recent Developments/Updates
- 9.15.6 CGDG Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

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

Table 2. World Lithium Supercapacitor Production Value by Region (2021-2026) & (USD Million)

Table 3. World Lithium Supercapacitor Production Value by Region (2027-2032) & (USD Million)

Table 4. World Lithium Supercapacitor Production Value Market Share by Region (2021-2026)

Table 5. World Lithium Supercapacitor Production Value Market Share by Region (2027-2032)

Table 6. World Lithium Supercapacitor Production by Region (2021-2026) & (K Units)

Table 7. World Lithium Supercapacitor Production by Region (2027-2032) & (K Units)

Table 8. World Lithium Supercapacitor Production Market Share by Region (2021-2026)

Table 9. World Lithium Supercapacitor Production Market Share by Region (2027-2032)

Table 10. World Lithium Supercapacitor Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Lithium Supercapacitor Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Lithium Supercapacitor Major Market Trends

Table 13. World Lithium Supercapacitor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Lithium Supercapacitor Consumption by Region (2021-2026) & (K Units)

Table 15. World Lithium Supercapacitor Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Lithium Supercapacitor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Lithium Supercapacitor Producers in 2025

Table 18. World Lithium Supercapacitor Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Lithium Supercapacitor Producers in 2025

Table 20. World Lithium Supercapacitor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Lithium Supercapacitor Company Evaluation Quadrant

Table 22. World Lithium Supercapacitor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Lithium Supercapacitor Production Site of Key Manufacturer

Table 24. Lithium Supercapacitor Market: Company Product Type Footprint

Table 25. Lithium Supercapacitor Market: Company Product Application Footprint

Table 26. Lithium Supercapacitor Competitive Factors

Table 27. Lithium Supercapacitor New Entrant and Capacity Expansion Plans

Table 28. Lithium Supercapacitor Mergers & Acquisitions Activity

Table 29. United States VS China Lithium Supercapacitor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Lithium Supercapacitor Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Lithium Supercapacitor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Lithium Supercapacitor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Lithium Supercapacitor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Lithium Supercapacitor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Lithium Supercapacitor Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Lithium Supercapacitor Production Market Share (2021-2026)

Table 37. China Based Lithium Supercapacitor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Lithium Supercapacitor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Lithium Supercapacitor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Lithium Supercapacitor Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Lithium Supercapacitor Production Market Share (2021-2026)

Table 42. Rest of World Based Lithium Supercapacitor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Lithium Supercapacitor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Lithium Supercapacitor Production Value

Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Lithium Supercapacitor Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Lithium Supercapacitor Production Market Share (2021-2026)

Table 47. World Lithium Supercapacitor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Lithium Supercapacitor Production by Type (2021-2026) & (K Units)

Table 49. World Lithium Supercapacitor Production by Type (2027-2032) & (K Units)

Table 50. World Lithium Supercapacitor Production Value by Type (2021-2026) & (USD Million)

Table 51. World Lithium Supercapacitor Production Value by Type (2027-2032) & (USD Million)

Table 52. World Lithium Supercapacitor Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Lithium Supercapacitor Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Lithium Supercapacitor Production Value by Electrode Construction, (USD Million), 2021 & 2025 & 2032

Table 55. World Lithium Supercapacitor Production by Electrode Construction (2021-2026) & (K Units)

Table 56. World Lithium Supercapacitor Production by Electrode Construction (2027-2032) & (K Units)

Table 57. World Lithium Supercapacitor Production Value by Electrode Construction (2021-2026) & (USD Million)

Table 58. World Lithium Supercapacitor Production Value by Electrode Construction (2027-2032) & (USD Million)

Table 59. World Lithium Supercapacitor Average Price by Electrode Construction (2021-2026) & (US\$/Unit)

Table 60. World Lithium Supercapacitor Average Price by Electrode Construction (2027-2032) & (US\$/Unit)

Table 61. World Lithium Supercapacitor Production Value by Cell Form Factor, (USD Million), 2021 & 2025 & 2032

Table 62. World Lithium Supercapacitor Production by Cell Form Factor (2021-2026) & (K Units)

Table 63. World Lithium Supercapacitor Production by Cell Form Factor (2027-2032) & (K Units)

Table 64. World Lithium Supercapacitor Production Value by Cell Form Factor (2021-2026) & (USD Million)

Table 65. World Lithium Supercapacitor Production Value by Cell Form Factor (2027-2032) & (USD Million)

Table 66. World Lithium Supercapacitor Average Price by Cell Form Factor (2021-2026) & (US\$/Unit)

Table 67. World Lithium Supercapacitor Average Price by Cell Form Factor (2027-2032) & (US\$/Unit)

Table 68. World Lithium Supercapacitor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Lithium Supercapacitor Production by Application (2021-2026) & (K Units)

Table 70. World Lithium Supercapacitor Production by Application (2027-2032) & (K Units)

Table 71. World Lithium Supercapacitor Production Value by Application (2021-2026) & (USD Million)

Table 72. World Lithium Supercapacitor Production Value by Application (2027-2032) & (USD Million)

Table 73. World Lithium Supercapacitor Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Lithium Supercapacitor Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Musashi Energy Solutions Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 76. Musashi Energy Solutions Co., Ltd. Major Business

Table 77. Musashi Energy Solutions Co., Ltd. Lithium Supercapacitor Product and Services

Table 78. Musashi Energy Solutions Co., Ltd. Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Musashi Energy Solutions Co., Ltd. Recent Developments/Updates

Table 80. Musashi Energy Solutions Co., Ltd. Competitive Strengths & Weaknesses

Table 81. JTEKT Corporation Basic Information, Manufacturing Base and Competitors

Table 82. JTEKT Corporation Major Business

Table 83. JTEKT Corporation Lithium Supercapacitor Product and Services

Table 84. JTEKT Corporation Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. JTEKT Corporation Recent Developments/Updates

Table 86. JTEKT Corporation Competitive Strengths & Weaknesses

Table 87. TAIYO YUDEN CO., LTD. Basic Information, Manufacturing Base and

Competitors

Table 88. TAIYO YUDEN CO., LTD. Major Business

Table 89. TAIYO YUDEN CO., LTD. Lithium Supercapacitor Product and Services

Table 90. TAIYO YUDEN CO., LTD. Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. TAIYO YUDEN CO., LTD. Recent Developments/Updates

Table 92. TAIYO YUDEN CO., LTD. Competitive Strengths & Weaknesses

Table 93. VINATech Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. VINATech Co., Ltd. Major Business

Table 95. VINATech Co., Ltd. Lithium Supercapacitor Product and Services

Table 96. VINATech Co., Ltd. Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. VINATech Co., Ltd. Recent Developments/Updates

Table 98. VINATech Co., Ltd. Competitive Strengths & Weaknesses

Table 99. Eaton Basic Information, Manufacturing Base and Competitors

Table 100. Eaton Major Business

Table 101. Eaton Lithium Supercapacitor Product and Services

Table 102. Eaton Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Eaton Recent Developments/Updates

Table 104. Eaton Competitive Strengths & Weaknesses

Table 105. CAP-XX Limited Basic Information, Manufacturing Base and Competitors

Table 106. CAP-XX Limited Major Business

Table 107. CAP-XX Limited Lithium Supercapacitor Product and Services

Table 108. CAP-XX Limited Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. CAP-XX Limited Recent Developments/Updates

Table 110. CAP-XX Limited Competitive Strengths & Weaknesses

Table 111. LiCAP Technologies Basic Information, Manufacturing Base and Competitors

Table 112. LiCAP Technologies Major Business

Table 113. LiCAP Technologies Lithium Supercapacitor Product and Services

Table 114. LiCAP Technologies Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. LiCAP Technologies Recent Developments/Updates

Table 116. LiCAP Technologies Competitive Strengths & Weaknesses

Table 117. SPEL Technologies Private Limited Basic Information, Manufacturing Base and Competitors

Table 118. SPEL Technologies Private Limited Major Business

Table 119. SPEL Technologies Private Limited Lithium Supercapacitor Product and Services

Table 120. SPEL Technologies Private Limited Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. SPEL Technologies Private Limited Recent Developments/Updates

Table 122. SPEL Technologies Private Limited Competitive Strengths & Weaknesses

Table 123. Nantong Jianghai Capacitor Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. Nantong Jianghai Capacitor Co., Ltd. Major Business

Table 125. Nantong Jianghai Capacitor Co., Ltd. Lithium Supercapacitor Product and Services

Table 126. Nantong Jianghai Capacitor Co., Ltd. Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Nantong Jianghai Capacitor Co., Ltd. Recent Developments/Updates

Table 128. Nantong Jianghai Capacitor Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Shenzhen TIG Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 130. Shenzhen TIG Technology Co., Ltd. Major Business

Table 131. Shenzhen TIG Technology Co., Ltd. Lithium Supercapacitor Product and Services

Table 132. Shenzhen TIG Technology Co., Ltd. Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Shenzhen TIG Technology Co., Ltd. Recent Developments/Updates

Table 134. Shenzhen TIG Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 135. Shanghai Yongming Electronic Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. Shanghai Yongming Electronic Co., Ltd. Major Business

Table 137. Shanghai Yongming Electronic Co., Ltd. Lithium Supercapacitor Product and Services

Table 138. Shanghai Yongming Electronic Co., Ltd. Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shanghai Yongming Electronic Co., Ltd. Recent Developments/Updates

Table 140. Shanghai Yongming Electronic Co., Ltd. Competitive Strengths & Weaknesses

Table 141. Wuhan Lixing Torch Power Sources Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 142. Wuhan Lixing Torch Power Sources Co., Ltd. Major Business

Table 143. Wuhan Lixing Torch Power Sources Co., Ltd. Lithium Supercapacitor Product and Services

Table 144. Wuhan Lixing Torch Power Sources Co., Ltd. Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Wuhan Lixing Torch Power Sources Co., Ltd. Recent Developments/Updates

Table 146. Wuhan Lixing Torch Power Sources Co., Ltd. Competitive Strengths & Weaknesses

Table 147. Shanghai Green Tech Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 148. Shanghai Green Tech Co., Ltd. Major Business

Table 149. Shanghai Green Tech Co., Ltd. Lithium Supercapacitor Product and Services

Table 150. Shanghai Green Tech Co., Ltd. Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Shanghai Green Tech Co., Ltd. Recent Developments/Updates

Table 152. Shanghai Green Tech Co., Ltd. Competitive Strengths & Weaknesses

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

Table 154. CRRC New Energy Major Business

Table 155. CRRC New Energy Lithium Supercapacitor Product and Services

Table 156. CRRC New Energy Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. CRRC New Energy Recent Developments/Updates

Table 158. CRRC New Energy Competitive Strengths & Weaknesses

Table 159. CGDG Basic Information, Manufacturing Base and Competitors

Table 160. CGDG Major Business

Table 161. CGDG Lithium Supercapacitor Product and Services

Table 162. CGDG Lithium Supercapacitor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. CGDG Recent Developments/Updates

Table 164. CGDG Competitive Strengths & Weaknesses

Table 165. Global Key Players of Lithium Supercapacitor Upstream (Raw Materials)

Table 166. Global Lithium Supercapacitor Typical Customers

Table 167. Lithium Supercapacitor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Lithium Supercapacitor Picture

Figure 2. World Lithium Supercapacitor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Lithium Supercapacitor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Lithium Supercapacitor Production (2021-2032) & (K Units)

Figure 5. World Lithium Supercapacitor Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Lithium Supercapacitor Production Value Market Share by Region (2021-2032)

Figure 7. World Lithium Supercapacitor Production Market Share by Region (2021-2032)

Figure 8. North America Lithium Supercapacitor Production (2021-2032) & (K Units)

Figure 9. Europe Lithium Supercapacitor Production (2021-2032) & (K Units)

Figure 10. China Lithium Supercapacitor Production (2021-2032) & (K Units)

Figure 11. Japan Lithium Supercapacitor Production (2021-2032) & (K Units)

Figure 12. South Korea Lithium Supercapacitor Production (2021-2032) & (K Units)

Figure 13. Lithium Supercapacitor Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Lithium Supercapacitor Consumption (2021-2032) & (K Units)

Figure 16. World Lithium Supercapacitor Consumption Market Share by Region (2021-2032)

Figure 17. United States Lithium Supercapacitor Consumption (2021-2032) & (K Units)

Figure 18. China Lithium Supercapacitor Consumption (2021-2032) & (K Units)

Figure 19. Europe Lithium Supercapacitor Consumption (2021-2032) & (K Units)

Figure 20. Japan Lithium Supercapacitor Consumption (2021-2032) & (K Units)

Figure 21. South Korea Lithium Supercapacitor Consumption (2021-2032) & (K Units)

Figure 22. ASEAN Lithium Supercapacitor Consumption (2021-2032) & (K Units)

Figure 23. India Lithium Supercapacitor Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of Lithium Supercapacitor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Lithium Supercapacitor Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Lithium Supercapacitor Markets in 2025

Figure 27. United States VS China: Lithium Supercapacitor Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Lithium Supercapacitor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Lithium Supercapacitor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Lithium Supercapacitor Production Market Share 2025

Figure 31. China Based Manufacturers Lithium Supercapacitor Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Lithium Supercapacitor Production Market Share 2025

Figure 33. World Lithium Supercapacitor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Lithium Supercapacitor Production Value Market Share by Type in 2025

Figure 35. 1000F

Figure 39. World Lithium Supercapacitor Production Market Share by Type (2021-2032)

Figure 40. World Lithium Supercapacitor Production Value Market Share by Type (2021-2032)

Figure 41. World Lithium Supercapacitor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Lithium Supercapacitor Production Value by Electrode Construction, (USD Million), 2021 & 2025 & 2032

Figure 43. World Lithium Supercapacitor Production Value Market Share by Electrode Construction in 2025

Figure 44. Wound Electrode Type

Figure 45. Stacked Electrode Type

Figure 46. Others

Figure 47. World Lithium Supercapacitor Production Market Share by Electrode Construction (2021-2032)

Figure 48. World Lithium Supercapacitor Production Value Market Share by Electrode Construction (2021-2032)

Figure 49. World Lithium Supercapacitor Average Price by Electrode Construction (2021-2032) & (US\$/Unit)

Figure 50. World Lithium Supercapacitor Production Value by Cell Form Factor, (USD Million), 2021 & 2025 & 2032

Figure 51. World Lithium Supercapacitor Production Value Market Share by Cell Form Factor in 2025

Figure 52. Radial Leaded Can Type

Figure 53. Large Cylindrical Type

Figure 54. Prismatic Or Laminated Type

Figure 55. Others

Figure 56. World Lithium Supercapacitor Production Market Share by Cell Form Factor (2021-2032)

Figure 57. World Lithium Supercapacitor Production Value Market Share by Cell Form Factor (2021-2032)

Figure 58. World Lithium Supercapacitor Average Price by Cell Form Factor (2021-2032) & (US\$/Unit)

Figure 59. World Lithium Supercapacitor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Lithium Supercapacitor Production Value Market Share by Application in 2025

Figure 61. Smart Metering, IoT And Embedded Backup

Figure 62. Industrial Power Quality, UPS And Data Centers

Figure 63. Transportation, Regenerative Braking And Automated Logistics

Figure 64. Others

Figure 65. World Lithium Supercapacitor Production Market Share by Application (2021-2032)

Figure 66. World Lithium Supercapacitor Production Value Market Share by Application (2021-2032)

Figure 67. World Lithium Supercapacitor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Lithium Supercapacitor Industry Chain

Figure 69. Lithium Supercapacitor Procurement Model

Figure 70. Lithium Supercapacitor Sales Model

Figure 71. Lithium Supercapacitor Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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