

# Global LIC Supercapacitors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global LIC Supercapacitors 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).

LIC 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 voltages and energy densities than traditional double-layer supercapacitors. Commercial LIC cells typically have rated voltages of approximately 3.5 to 4.0 V and capacities ranging from over 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 voltages and energy densities; compared to lithium-ion batteries, they have shorter continuous energy storage times but superior peak power, cycle life, and fast charging performance. They are primarily used in smart meters, IoT terminals, industrial power outage protection, voltage drop compensation, rail transit energy recovery, automated logistics equipment, and short-term high-power energy storage. Global production of lithium-ion supercapacitors (LICs) is projected to reach approximately 5.25 million units by 2025, with an average price of around \$6 per unit and a gross margin of approximately 27%.

The lithium-ion supercapacitor market is rapidly upgrading from traditional applications such as smart meters and small backup power supplies to high-reliability short-term energy storage and high-frequency power regulation platforms. The periodic peak loads generated by AI server training and inference necessitate rack-mount energy storage

devices with millisecond-level response times, high-frequency cycling capability, and predictable lifespans for data centers. Demand for transient voltage dip mitigation is also rapidly increasing in semiconductor manufacturing, grid-sensitive loads, and high-end industrial equipment. Simultaneously, the long standby time requirements of rail transit braking energy recovery, rapid power replenishment for AGVs and AMRs, port equipment, and smart meters and remote trackers are continuously expanding the downstream application boundaries of LICs. Leading cell manufacturers are collaborating with power system vendors to develop capacitor energy storage systems and are expanding their large-capacity square cell production lines, indicating that the market is moving from product verification to large-scale commercial deployment.

However, industry expansion still faces significant technological and commercial barriers. While LIC (Lithium Iron Phosphate) batteries have a significantly higher energy density than traditional double-layer capacitors, they are still lower than mainstream lithium-ion batteries, making them unsuitable for long-term energy storage at the hourly level. Their negative electrode pre-lithiation, water content control, electrolyte matching, and interfacial film stability directly affect product consistency, cycle life, and manufacturing yield. LIC batteries typically require a minimum operating voltage and the configuration of cell balancing and state monitoring systems in series modules, increasing system design complexity. Meanwhile, lithium iron phosphate batteries, traditional supercapacitors, and high-rate lithium batteries are creating competitive substitution across different power and time ranges. The industry also faces risks such as inconsistent product names and market statistics boundaries, long customer certification cycles, and concentrated supply of key materials.

The future market will exhibit a clear trend towards product polarization. Small-capacity (3.5 to 4.2 V, 10 to 200 F) products will continue to serve smart meters, IoT terminals, locators, energy harvesting, and embedded power-loss protection, with competition focusing on miniaturization, low leakage current, and cost control. Large-capacity (500 to 3000 F) square or cylindrical products will increasingly enter AI server racks, industrial voltage dip compensation, rail transportation, and heavy-duty mobile equipment, with competition shifting towards low internal resistance, thermal management, system safety, and lifespan assurance. Downstream customers will also gradually shift from simply purchasing battery cells to purchasing certified modules, rack-mounted energy storage devices, and complete power systems. The industry's value and profit margins will increasingly shift towards balance management, condition monitoring, power electronics, system certification, and full lifecycle services.

This report studies the global LIC Supercapacitors production, demand, key

manufacturers, and key regions.

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

#### Highlights and key features of the study

Global LIC Supercapacitors total production and demand, 2021-2032, (K Units)

Global LIC Supercapacitors total production value, 2021-2032, (USD Million)

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

Global LIC Supercapacitors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: LIC Supercapacitors domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global LIC Supercapacitors 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 LIC Supercapacitors 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 LIC Supercapacitors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global LIC Supercapacitors Market, Segmentation by Type:

1000F

#### Global LIC Supercapacitors Market, Segmentation by Electrode Construction:

Wound Electrode Type

Stacked Electrode Type

Others

## Global LIC Supercapacitors Market, Segmentation by Cell Form Factor:

Radial Leaded Can Type

Large Cylindrical Type

Prismatic Or Laminated Type

Others

## Global LIC Supercapacitors 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 LIC Supercapacitors market?
2. What is the demand of the global LIC Supercapacitors market?
3. What is the year over year growth of the global LIC Supercapacitors market?
4. What is the production and production value of the global LIC Supercapacitors market?
5. Who are the key producers in the global LIC Supercapacitors market?
6. What are the growth factors driving the market demand?

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