

Lithium-ion Capacitor Market Size, Share, and Analysis, By Product (Radial, Laminating), By Application (Energy Storage, Transportation, UPS, Industrial Machine and Others) and By Region (North America, Europe, Asia-Pacific, And Rest of the World) And Regional Forecast 2024-2034

<https://marketpublishers.com/r/L4FCE04D6C1BEN.html>

Date: December 2024

Pages: 626

Price: US\$ 5,250.00 (Single User License)

ID: L4FCE04D6C1BEN

Abstracts

Lithium-ion Capacitor Market Size, Share, and Analysis, By Product (Radial, Laminating), By Application (Energy Storage, Transportation, UPS, Industrial Machine and Others) and By Region (North America, Europe, Asia-Pacific, And Rest of the World) And Regional Forecast 2024-2034

PRODUCT OVERVIEW

The market for lithium-ion capacitors is expected to experience a compound annual growth rate (CAGR) of 5.3% from 2024 to 2034. Starting at a valuation of USD 25.2 million in 2023, it is forecasted to increase to USD 44.4 million by the end of 2034.

Lithium-ion capacitor is an energy storage device that has the features of both traditional capacitors and lithium-ion batteries. It uses an innovative hybrid design that combines activated carbon electrode materials used in electric double-layer capacitors (EDLCs) and lithium-intercalating materials used in lithium-ion batteries. This unique combination enables LICs to provide higher power density, faster charge and discharge rates, longer cycle life, and higher energy density compared to conventional capacitors. Moreover, the addition of lithium-intercalating elements strengthens the capacitors' electrochemical stability and overall performance, allowing them to excel in applications demanding quick energy delivery and high-efficiency energy storage. These features

make LICs extremely valuable in renewable energy systems, automotive, and backup power systems, where quick cycling and energy efficiency are critical.

MARKET HIGHLIGHTS

Lithium-ion Capacitor Market is anticipated to reach USD 44.4 million, growing at a CAGR of 5.3% during the forecast period due to the heightened demand for effective energy storage solutions in renewables energy systems, smart grid applications and electric vehicles enhancing interest in Lithium-ion Capacitor, which have a high power density and can discharge pretty quickly. Significant developments in material science and technology have improved the overall performance and lowered down the cost of ion capacitors, making them more appealing for commercial and industrial applications. As companies are seeking more sustainable and dependable energy storage choices with longer lifecycle and lower environmental effect than traditional batteries, LIC emerge as a possible solution.

Lithium-ion Capacitor Market Segments:

By Product

Radial

Laminating

By Component

Energy Storage

Transportation

UPS

Industrial Machine

Others

MARKET DYNAMICS

Growth Drivers

Increasing Demand for Effective Energy Solutions to Influence Better Growth in Market

Technological Advancements to Play a Crucial Role in Development of Lithium-ion Capacitor Market

Restraint

Higher Costs of the Lithium-ion Capacitor to Act as a Significant Restraint in Market

Key Players

Taiyo Yuden

Maxwell Technologies

VINATech

Nippon Chemi-Con

Samsung SDI

Cap Energy

Jianghai

EVE Energy

Panasonic

Maxwell Technologies

Nesscap Energy

Ioxus

Skeleton Technologies

Imperial Chemical Industries (ICI)

LS Mtron

Other Prominent Players (Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis)

Global Laboratory Temperature Control Units Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

Reasons to Purchase this Report

Qualitative and quantitative analysis of the market based on segmentation involving both economic as well as non-economic factors

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth

as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry with respect to recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market of various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

3-month post-sales analyst support.

Contents

1. EXECUTIVE SUMMARY

- 1.1. Regional Market Share
- 1.2. Business Trends
- 1.3. Lithium ion Capacitor Market: COVID-19 Outbreak
- 1.4. Regional Trends
- 1.5. Segmentation Snapshot

2. RESEARCH METHODOLOGY

- 2.1. Research Objective
- 2.2. Research Approach
- 2.3. Data Sourcing and Methodology
- 2.4. Primary Research
- 2.5. Secondary Research
 - 2.5.1. Paid Sources
 - 2.5.2. Public Sources
- 2.6. Market Size Estimation and Data Triangulation

3. MARKET CHARACTERISTICS

- 3.1. Market Definition
- 3.2. Lithium ion Capacitor Market: COVID-19 Impact
- 3.3. Key Segmentations
- 3.4. Key Developments
- 3.5. Allied Industry Data

4. LITHIUM ION CAPACITOR MARKET – INDUSTRY INSIGHTS

- 4.1. Industry Segmentation
- 4.2. COVID-19 overview on world economy
- 4.3. Industry ecosystem Channel analysis
- 4.4. Innovation & Sustainability

5. MACROECONOMIC INDICATORS

6. RECENT DEVELOPMENTS

7.MARKET DYNAMICS

- 7.1. Introduction
- 7.2.Growth Drivers
- 7.3.Market Opportunities
- 7.4. Market Restraints
- 7.5.Market Trends

8. RISK ANALYSIS

9. MARKET ANALYSIS

- 9.1. Porters Five Forces
- 9.2.PEST Analysis
 - 9.2.1. Political
 - 9.2.2.Economic
 - 9.2.3.Social
 - 9.2.4.Technological

10. LITHIUM ION CAPACITOR MARKET

- 10.1.Overview
- 10.2. Historical Analysis (2019-2022)
 - 10.2.1. Market Size, Y-o-Y Growth (%) and Market Forecast

11.LITHIUM ION CAPACITOR MARKET SIZE & FORECAST 2024A-2034F

- 11.1.Overview
- 11.2. Key Findings
- 11.3. Market Segmentation
 - 11.3.1. By Product
 - 11.3.1.1. Radial
 - 11.3.1.1.1. By Value (USD Million) 2024-2034F
 - 11.3.1.1.2.Market Share (%) 2024-2034F
 - 11.3.1.1.3.Y-o-Y Growth (%) 2024-2034F
 - 11.3.1.2. Laminating
 - 11.3.1.2.1.By Value (USD Million) 2024-2034F
 - 11.3.1.2.2. Market Share (%) 2024-2034F

- 11.3.1.2.3. Y-o-Y Growth (%) 2024-2034
- 11.3.2. By Application
 - 11.3.2.1. Energy Storage
 - 11.3.2.1.1. By Value (USD Million) 2024-2034F
 - 11.3.2.1.2. Market Share (%) 2024-2034F
 - 11.3.2.1.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.2.2. Transportation
 - 11.3.2.2.1. By Value (USD Million) 2024-2034F
 - 11.3.2.2.2. Market Share (%) 2024-2034F
 - 11.3.2.2.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.2.3. UPS
 - 11.3.2.3.1. By Value (USD Million) 2024-2034F
 - 11.3.2.3.2. Market Share (%) 2024-2034F
 - 11.3.2.3.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.2.4. Industrial Machine
 - 11.3.2.4.1. By Value (USD Million) 2024-2034F
 - 11.3.2.4.2. Market Share (%) 2024-2034F
 - 11.3.2.4.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.2.5. Others
 - 11.3.2.5.1. By Value (USD Million) 2024-2034F
 - 11.3.2.5.2. Market Share (%) 2024-2034F
 - 11.3.2.5.3. Y-o-Y Growth (%) 2024-2034F

12. NORTH AMERICA LITHIUM ION CAPACITOR MARKET SIZE & FORECAST 2024A-2034F

- 12.1. Overview
- 12.2. Key Findings
- 12.3. Market Segmentation
 - 12.3.1. By Product
 - 12.3.2. By Application
- 12.4. Country
 - 12.4.1. United States
 - 12.4.2. Canada

13. EUROPE LITHIUM ION CAPACITOR MARKET SIZE & FORECAST 2024A-2034F

- 13.1. Overview
- 13.2. Key Findings

13.3. Market Segmentation

13.3.1. By Product

13.3.2. By Application

13.4. Country

13.4.1. Germany

13.4.2. United Kingdom

13.4.3. France

13.4.4. Italy

13.4.5. Spain

13.4.6. Russia

13.4.7. Rest of Europe (BENELUX, NORDIC, Hungary, Turkey & Poland)

14. ASIA-PACIFIC LITHIUM ION CAPACITOR MARKET SIZE & FORECAST 2024A-2034F

14.1. Overview

14.2. Key Findings

14.3. Market Segmentation

14.3.1. By Product

14.3.2. By Application

14.4. Country

14.4.1. India

14.4.2. China

14.4.3. South Korea

14.4.4. Japan

14.4.5. Rest of APAC

15. MIDDLE EAST AND AFRICA LITHIUM ION CAPACITOR MARKET SIZE & FORECAST 2024A-2034F

15.1. Overview

15.2. Key Findings

15.3. Market Segmentation

15.3.1. By Product

15.3.2. By Application

15.4. Country

15.4.1. Israel

15.4.2. GCC

15.4.3. North Africa

15.4.4. South Africa

15.4.5. Rest of Middle East and Africa

16. LATIN AMERICA LITHIUM ION CAPACITOR MARKET SIZE & FORECAST 2024A-2034F

16.1. Overview

16.2. Key Findings

16.3. Market Segmentation

16.3.1. By Product

16.3.2. By Application

16.4. Country

16.4.1. Mexico

16.4.2. Brazil

16.4.3. Rest of Latin America

17. COMPETITIVE LANDSCAPE

17.1. Company market share, 2023

17.2. Key player overview

17.3. Key stakeholders

18. COMPANY PROFILES

18.1. Taiyo Yuden

18.1.1. Company Overview

18.1.2. Financial Overview

18.1.3. Key Product; Analysis

18.1.4. Company Assessment

18.1.4.1. Product Portfolio

18.1.4.2. Key Clients

18.1.4.3. Market Share

18.1.4.4. Recent News & Development (Last 3 Yrs.)

18.1.4.5. Executive Team

18.2. Maxwell Technologies

18.3. VINATech

18.4. Nippon Chemi-Con

18.5. Samsung SDI

18.6. Cap Energy

- 18.7.Jianghai
- 18.8. EVE Energy
- 18.9.Panasonic
- 18.10. Maxwell Technologies
- 18.11. Nesscap Energy
- 18.12. Ioxus
- 18.13. Skeleton Technologies
- 18.14. Imperial Chemical Industries (ICI)
- 18.15. LS Mtron
- 18.16.Other Prominent Players

19. APPENDIX

20.CONSULTANT RECOMMENDATION

I would like to order

Product name: Lithium-ion Capacitor Market Size, Share, and Analysis, By Product (Radial, Laminating), By Application (Energy Storage, Transportation, UPS, Industrial Machine and Others) and By Region (North America, Europe, Asia-Pacific, And Rest of the World) And Regional Forecast 2024-2034

Product link: <https://marketpublishers.com/r/L4FCE04D6C1BEN.html>

Price: US\$ 5,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/L4FCE04D6C1BEN.html>