

# Global Capacitors for Electric Vehicles Market Growth 2023-2029

<https://marketpublishers.com/r/G593233ABA69EN.html>

Date: June 2023

Pages: 108

Price: US\$ 3,660.00 (Single User License)

ID: G593233ABA69EN

## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Capacitors for Electric Vehicles market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

Capacitors play a crucial role in electric vehicles (EVs) by providing electrical energy storage and power delivery for various applications, such as regenerative braking, power assistance, and rapid energy discharge. The development of capacitors for electric vehicles is focused on improving their energy density, power density, efficiency, reliability, and cost-effectiveness. Here are some key development trends in capacitors for electric vehicles:

**High Energy Density:** Increasing the energy density of capacitors is a key development trend. This involves the exploration of advanced materials, such as high-performance dielectrics and electrode materials, to store more energy per unit volume or mass. Development efforts aim to achieve higher energy density capacitors to increase the overall energy storage capacity of the vehicle and extend the driving range.

**High Power Density:** Capacitors with high power density can deliver and absorb electrical energy rapidly, which is essential for applications like regenerative braking and power assistance. Development trends focus on optimizing the design and materials of capacitors to increase their power density, enabling efficient energy transfer and quick response to power demands.

**Improved Efficiency:** Enhancing the efficiency of capacitors is a development goal. This

includes minimizing energy losses during charge and discharge cycles by reducing internal resistance and optimizing electrode and dielectric materials. Improved efficiency leads to better utilization of the stored energy and increased overall system efficiency of the electric vehicle.

**High Voltage Capacitors:** Electric vehicles operate at high voltage levels to maximize energy transfer and reduce losses. Development efforts involve the design and development of capacitors capable of handling high voltage levels while maintaining safety, reliability, and compactness. High voltage capacitors enable efficient energy storage and delivery in EV systems.

**Temperature Stability:** Capacitors for electric vehicles need to operate reliably across a wide temperature range. Development trends focus on materials and designs that provide excellent temperature stability, ensuring consistent performance and longevity under extreme temperature conditions encountered in automotive applications. This includes the development of capacitors with stable electrical properties, minimal capacitance variation, and enhanced thermal management capabilities.

**Longevity and Reliability:** Capacitors in electric vehicles must have a long operational life and high reliability to withstand the demanding operating conditions, such as high temperature, vibration, and cycling. Development efforts involve improving the durability and reliability of capacitors by employing robust materials, advanced manufacturing techniques, and thorough quality control measures.

LPI (LP Information)' newest research report, the “Capacitors for Electric Vehicles Industry Forecast” looks at past sales and reviews total world Capacitors for Electric Vehicles sales in 2022, providing a comprehensive analysis by region and market sector of projected Capacitors for Electric Vehicles sales for 2023 through 2029. With Capacitors for Electric Vehicles sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Capacitors for Electric Vehicles industry.

This Insight Report provides a comprehensive analysis of the global Capacitors for Electric Vehicles landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Capacitors for Electric Vehicles portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Capacitors for Electric Vehicles market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Capacitors for Electric Vehicles and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Capacitors for Electric Vehicles.

This report presents a comprehensive overview, market shares, and growth opportunities of Capacitors for Electric Vehicles market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Aluminum Electrolytic Capacitors

Film Capacitor

Others

Segmentation by application

Passenger Car

Commercial Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

## GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Maxwell Technologies

Panasonic Corporation

Vishay Intertechnology, Inc.

KEMET Corporation

AVX Corporation

Nippon Chemi-Con Corporation

EPCOS AG

Nichicon Corporation

Rubycon Corporation

Murata Manufacturing Co., Ltd.

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Capacitors for Electric Vehicles market?

What factors are driving Capacitors for Electric Vehicles market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Capacitors for Electric Vehicles market opportunities vary by end market size?

How does Capacitors for Electric Vehicles break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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