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Global EV-Capacitors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global EV-Capacitors market size is expected to reach $ 10996 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).
In 2025, the global production of electric vehicle capacitors was 7.3 billion units, with an average price of US$0.8 per unit.
EV capacitors are power capacitors specifically designed and optimized for the demanding conditions within electric vehicles and their charging infrastructure, where they serve critical functions such as filtering out voltage fluctuations, buffering energy, and protecting power semiconductors. They are crucial for the safe and efficient operation of EV powertrains and charging systems by ensuring stable DC bus voltage, smoothing power delivery, and preventing issues like ripple currents and Electromagnetic Interference (EMI).
Upstream of EV capacitors mainly includes aluminum foil, dielectric paper, film substrates, activated carbon, electrolytes, metal housings, and sealing resins, with high requirements for consistency, high-temperature resistance, ripple current capability, and long-term stability. Downstream represents the core demand and value segment, primarily serving traction inverters, electric drive systems, onboard chargers, DC/DC converters, battery management systems, and power filtering and buffering applications. OEMs and Tier 1 suppliers focus on reliability, lifetime, volumetric efficiency, and failure rates under high-voltage platforms, and with the adoption of 800V architectures and SiC power devices, demand for film capacitors and high-performance electrolytic capacitors continues to rise, supported by long qualification cycles and nomination-based supply.
Industry trends point toward higher voltage ratings, miniaturization, and enhanced ripple current performance, with film capacitors gaining penetration in main traction inverters, while high-temperature, long-life electrolytic and hybrid capacitors expand in vehicle power electronics. Key drivers include growth in EV sales, wider adoption of high-

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voltage fast-charging platforms, increasing penetration of SiC power modules, and higher requirements for power quality and system reliability. Major constraints involve volatility in high-end raw material costs, lengthy automotive-grade validation cycles, relatively high technical barriers, and margin pressure on mid- to low-end products from price competition.

Overall gross margins for EV capacitors are at a mid-range level, typically between 20% and 35%. Companies with strong automotive qualification track records, advanced film capacitor technologies, and stable OEM nominations achieve relatively higher margins, while suppliers focused on general-purpose or lower-end electrolytic capacitors face more limited profitability.

This report studies the global EV-Capacitors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global EV-Capacitors total production and demand, 2021-2032, (K Units)

Global EV-Capacitors total production value, 2021-2032, (USD Million)

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

Global EV-Capacitors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: EV-Capacitors domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global EV-Capacitors 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 Murata, TDK, Panasonic, Vishay, KEMET, Cornell Dubilier, Nippon ChemiCon, Nantong Jianghai, GMCC, Faratronic, 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

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used in analyzing the World EV-Capacitors 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 EV-Capacitors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EV-Capacitors Market, Segmentation by Type:

Electric Double-Layer Capacitor (EDLC)

Faraday Pseudocapacitor

Hybrid Supercapacitor

Thin Film Capacitor

Global EV-Capacitors Market, Segmentation by Electrolyte Type:

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Organic Electrolytes

Aqueous Electrolytes

Solid Electrolytes

Global EV-Capacitors Market, Segmentation by Voltage:

Below 12V

12V-400V

Above 400V

Global EV-Capacitors Market, Segmentation by Application:

Electric Vehicle Powertrain Systems

Start-Stop Systems and Energy Conservation

On-board Electrical and Intelligent Systems

Energy Storage and Vehicle-to-Everything (V2X)

Companies Profiled:

Murata

TDK

Panasonic

Vishay

KEMET

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Cornell Dubilier

Nippon ChemiCon

Nantong Jianghai

GMCC

Faratronic

Samsung

Kyocera

Vinatech

Deki Electronics

Celem

Cic Energigune

HiVolt Capacitors

Rubycon

Sancon

Kyocera Avx

Jolta Battery

Electronic Concepts

Zoxcell

Tecate Group

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Key Questions Answered:

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

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