

Global Power Electronics for Electric Vehicles Market Growth 2025-2031

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Abstracts

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The global Power Electronics for Electric Vehicles market size is predicted to grow from US\$ 5465 million in 2025 to US\$ 7229 million in 2031; it is expected to grow at a CAGR of 4.8% from 2025 to 2031.

To control the flow of energy, the switching electronic circuits are used. These switching electronic circuits are called power electronics. Power electronics are also considered for the conversion of electric power. Such conversions are performed by semiconductor devices like diodes, transistors and thyristors etc. Power electronics devices have several advantages including optimum forward and reverse backing capabilities, simplified circuits, compact designs etc. Moreover, power electronics find its applications in connection of renewable energy resources to power grids, transportation in electric trains, motor drives and lighting. The major use of power electronics devices is heat sinking as well as soft starting of equipment deploying power electronic devices. This report only covers electric vehicles segment.

In the world wide, major manufactures mainly are Infineon Technologies, Mitsubishi Electric, Fuji Electric, SEMIKRON, ON Semiconductor, Renesas Electronics, Vishay Intertechnology, Texas Instruments, Toshiba, Stmicroelectronics , NXP Semiconductors and Microsemi Corporation, etc.

LP Information, Inc. (LPI) ' newest research report, the "Power Electronics for Electric Vehicles Industry Forecast" looks at past sales and reviews total world Power Electronics for Electric Vehicles sales in 2024, providing a comprehensive analysis by region and market sector of projected Power Electronics for Electric Vehicles sales for

2025 through 2031. With Power Electronics 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 Power Electronics for Electric Vehicles industry.

This Insight Report provides a comprehensive analysis of the global Power Electronics 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 Power Electronics 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 Power Electronics for Electric Vehicles market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Power Electronics 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 Power Electronics for Electric Vehicles.

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

Segmentation by Type:

Power IC

Power Module

Power Discrete

Segmentation by Application:

HEV

EV

PHEV

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 analysing the company's coverage, product portfolio, its market penetration.

Infineon Technologies

Mitsubishi Electric

Fuji Electric

SEMIKRON

ON Semiconductor

Renesas Electronics

Vishay Intertechnology

Texas Instruments

Toshiba

Stmicroelectronics

NXP Semiconductors

Microsemi Corporation

Key Questions Addressed in this Report

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

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

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

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

How does Power Electronics for Electric Vehicles break out by Type, by Application?

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