

Global Power Electronics for Electric Vehicles Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Power Electronics for Electric Vehicles market size was valued at USD 5257.7 million in 2023 and is forecast to a readjusted size of USD 7108.3 million by 2030 with a CAGR of 4.4% during review period.

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.

The Global Info Research report includes an overview of the development of the Power Electronics for Electric Vehicles industry chain, the market status of HEV (Power IC, Power Module), EV (Power IC, Power Module), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications

and market trends of Power Electronics for Electric Vehicles.

Regionally, the report analyzes the Power Electronics for Electric Vehicles markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Power Electronics for Electric Vehicles market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Power Electronics for Electric Vehicles market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Power Electronics for Electric Vehicles industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Power IC, Power Module).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Power Electronics for Electric Vehicles market.

Regional Analysis: The report involves examining the Power Electronics for Electric Vehicles market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Power Electronics for Electric Vehicles market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Power Electronics for Electric Vehicles:

Company Analysis: Report covers individual Power Electronics for Electric Vehicles manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Power Electronics for Electric Vehicles. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (HEV, EV).

Technology Analysis: Report covers specific technologies relevant to Power Electronics for Electric Vehicles. It assesses the current state, advancements, and potential future developments in Power Electronics for Electric Vehicles areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Power Electronics for Electric Vehicles market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Power Electronics for Electric Vehicles market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Power IC

Power Module

Power Discrete

Market segment by Application

HEV

EV

PHEV

Major players covered

Infineon Technologies

Mitsubishi Electric

Fuji Electric

SEMIKRON

ON Semiconductor

Renesas Electronics

Vishay Intertechnology

Texas Instruments

Toshiba

Stmicroelectronics

NXP Semiconductors

Microsemi Corporation

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Power Electronics for Electric Vehicles product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Power Electronics for Electric Vehicles, with price, sales, revenue and global market share of Power Electronics for Electric Vehicles from 2019 to 2024.

Chapter 3, the Power Electronics for Electric Vehicles competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Power Electronics for Electric Vehicles breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Power Electronics for Electric Vehicles market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Power Electronics for Electric Vehicles.

Chapter 14 and 15, to describe Power Electronics for Electric Vehicles sales channel, distributors, customers, research findings and conclusion.

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