

Global Power IC (Integrated Circuit) for Electric Vehicles Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global Power IC (Integrated Circuit) for Electric Vehicles market size was valued at US\$ million in 2023. With growing demand in downstream market, the Power IC (Integrated Circuit) for Electric Vehicles is forecast to a readjusted size of US\$ million by 2030 with a CAGR of % during review period.

The research report highlights the growth potential of the global Power IC (Integrated Circuit) for Electric Vehicles market. Power IC (Integrated Circuit) for Electric Vehicles are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Power IC (Integrated Circuit) for Electric Vehicles. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Power IC (Integrated Circuit) for Electric Vehicles market.

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.

Global EV sales continued strong. A total of 10,5 million new BEVs and PHEVs were delivered during 2022, an increase of +55 % compared to 2021. China and Europe emerged as the main drivers of strong growth in global EV sales. In 2022, the production and sales of new energy vehicles in China reach 7.0 million and 6.8 million respectively, a year-on-year increase of 96.9% and 93.4%, with a market share of 25.6%. The production and sales of new energy vehicles have ranked first in the world for eight consecutive years. Among them, the sales volume of pure electric vehicles was 5.365 million, a year-on-year increase of 81.6%. In 2022, sales of pure electric vehicles in Europe will increase by 29% year-on-year to 1.58 million.

Key Features:

The report on Power IC (Integrated Circuit) for Electric Vehicles market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Power IC (Integrated Circuit) for Electric Vehicles market. It may include historical data, market segmentation by Type (e.g., GaN, SiC), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Power IC (Integrated Circuit) for Electric Vehicles market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Power IC (Integrated Circuit) for Electric Vehicles market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Power IC (Integrated Circuit) for Electric Vehicles industry. This include advancements in Power IC (Integrated Circuit) for Electric Vehicles technology, Power IC (Integrated Circuit) for Electric Vehicles new entrants, Power IC (Integrated Circuit) for Electric Vehicles new investment, and other

innovations that are shaping the future of Power IC (Integrated Circuit) for Electric Vehicles.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Power IC (Integrated Circuit) for Electric Vehicles market. It includes factors influencing customer ' purchasing decisions, preferences for Power IC (Integrated Circuit) for Electric Vehicles product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Power IC (Integrated Circuit) for Electric Vehicles market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Power IC (Integrated Circuit) for Electric Vehicles market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Power IC (Integrated Circuit) for Electric Vehicles market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Power IC (Integrated Circuit) for Electric Vehicles industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Power IC (Integrated Circuit) for Electric Vehicles market.

Market Segmentation:

Power IC (Integrated Circuit) 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.

Segmentation by type

GaN

SiC

Others

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

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 IC (Integrated Circuit) for Electric Vehicles market?

What factors are driving Power IC (Integrated Circuit) for Electric Vehicles market growth, globally and by region?

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

How do Power IC (Integrated Circuit) for Electric Vehicles market opportunities vary by end market size?

How does Power IC (Integrated Circuit) for Electric Vehicles break out type, application?

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