

# Global IGBT and SiC Module for EV (Electric Vehicle) Market Growth 2023-2029

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# **Abstracts**

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According to our LPI (LP Information) latest study, the global IGBT and SiC Module for EV (Electric Vehicle) market size was valued at US\$ 4462.8 million in 2022. With growing demand in downstream market, the IGBT and SiC Module for EV (Electric Vehicle) is forecast to a readjusted size of US\$ 18050 million by 2029 with a CAGR of 22.1% during review period.

The research report highlights the growth potential of the global IGBT and SiC Module for EV (Electric Vehicle) market. IGBT and SiC Module for EV (Electric Vehicle) 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 IGBT and SiC Module for EV (Electric Vehicle). 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 IGBT and SiC Module for EV (Electric Vehicle) market.

This report studies the IGBT modules and Silicon Carbide (SiC) Modules for EV (Electric Vehicle), used in Main Inverter (Electric Traction), OBC and DC-DC.

An IGBT Power Module is a power semiconductor component used in power electronic devices in several industries as they have high-power efficiency, high blocking voltage, and ability to work in low power. An IGBT Power Module is formed by arranging several IGBTs in parallel in a single casing.

Silicon carbide as a semiconductor has a wide band-gap, used in MOSFET it has very



low switching losses and therefore allows higher switching frequencies compared to regular silicon devices. At the same time, it can be operated at higher temperatures and at higher voltages compared to traditional Si semiconductors. The use of SiC power semiconductors is expected to grow exponentially due to its crucial efficiency characteristics that enables cost reductions while at the same time improving system performance in a variety of applications such as EV chargers, solar inverters, emobility, and motor drives.

The global key players of IGBT Power Module include Infineon, Mitsubishi Electric (Vincotech), Fuji Electric, Semikron Danfoss, StarPower Semiconductor, BYD, and Zhuzhou CRRC Times Electric, etc. The global six biggest players hold a share of 77 %.

The key players of SiC MOSFET modules are STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD Semiconductor, Microchip (Microsemi), Mitsubishi Electric (Vincotech) and Semikron Danfoss, etc. The top three players hold a share over 70 percent in 2022.

# Key Features:

The report on IGBT and SiC Module for EV (Electric Vehicle) 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 IGBT and SiC Module for EV (Electric Vehicle) market. It may include historical data, market segmentation by Type (e.g., Automotive-grade IGBT Modules, Automotive-grade SiC Modules), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the IGBT and SiC Module for EV (Electric Vehicle) 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 IGBT and SiC Module for EV (Electric Vehicle) 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 IGBT and SiC Module for EV (Electric Vehicle) industry. This include advancements in IGBT and SiC Module for EV (Electric Vehicle) technology, IGBT and SiC Module for EV (Electric Vehicle) new entrants, IGBT and SiC Module for EV (Electric Vehicle) new investment, and other innovations that are shaping the future of IGBT and SiC Module for EV (Electric Vehicle).

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the IGBT and SiC Module for EV (Electric Vehicle) market. It includes factors influencing customer ' purchasing decisions, preferences for IGBT and SiC Module for EV (Electric Vehicle) product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the IGBT and SiC Module for EV (Electric Vehicle) market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting IGBT and SiC Module for EV (Electric Vehicle) 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 IGBT and SiC Module for EV (Electric Vehicle) market.

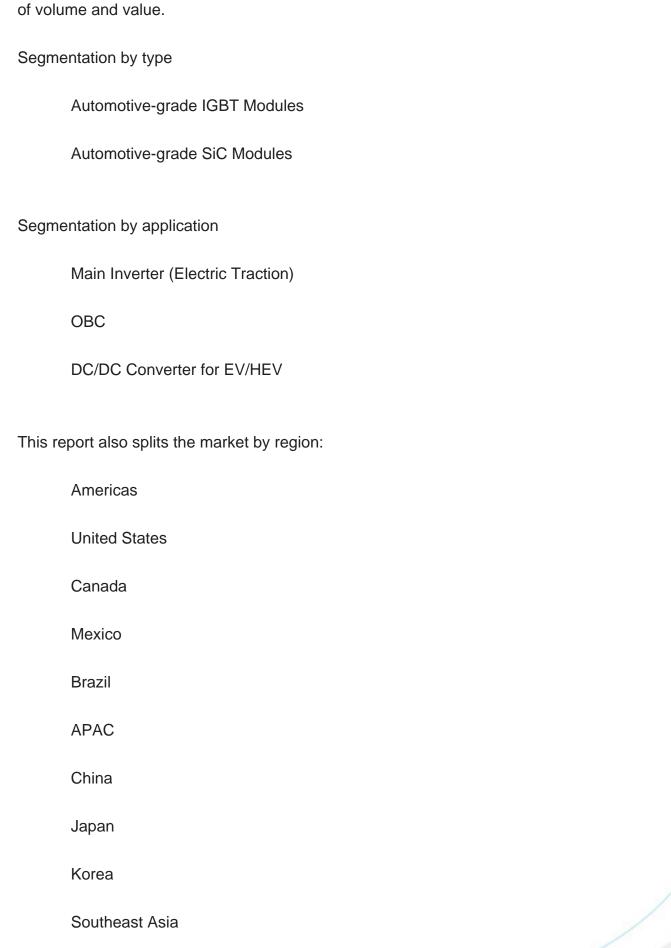
Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the IGBT and SiC Module for EV (Electric Vehicle) industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements 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 IGBT and SiC Module for EV (Electric Vehicle) market.

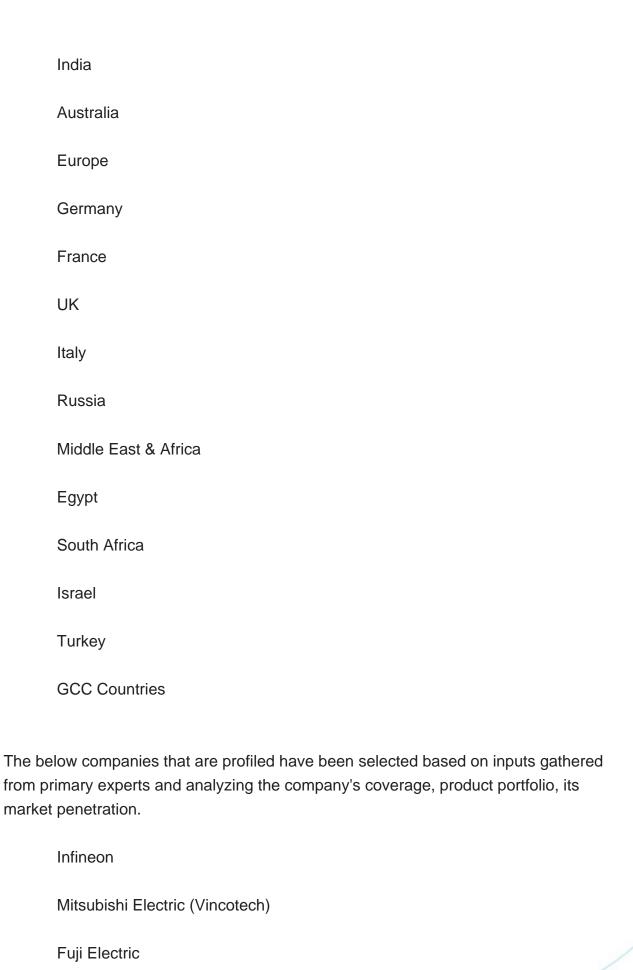
#### Market Segmentation:

IGBT and SiC Module for EV (Electric Vehicle) market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms











Semikron Danfoss
Hitachi Power Semiconductor Device
Bosch
onsemi
Microchip (Microsemi)
STMicroelectronics
Denso
Wolfspeed
Rohm
Navitas (GeneSiC)
BYD
StarPower Semiconductor
Zhuzhou CRRC Times Electric
BASiC Semiconductor
Guangdong AccoPower Semiconductor
Grecon Semiconductor (Shanghai) Co., Ltd
Juestions Addressed in this Report

Key Questions Addressed in this Report

What is the 10-year outlook for the global IGBT and SiC Module for EV (Electric Vehicle) market?



What factors are driving IGBT and SiC Module for EV (Electric Vehicle) market growth, globally and by region?

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

How do IGBT and SiC Module for EV (Electric Vehicle) market opportunities vary by end market size?

How does IGBT and SiC Module for EV (Electric Vehicle) break out type, application?



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