

# Global IGBT and SiC Module for EV (Electric Vehicle) Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

According to our (Global Info Research) latest study, the global IGBT and SiC Module for EV (Electric Vehicle) market size was valued at USD 4694.1 million in 2022 and is forecast to a readjusted size of USD 17200 million by 2029 with a CAGR of 20.4% during review period.

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, e-mobility, 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.

The Global Info Research report includes an overview of the development of the IGBT and SiC Module for EV (Electric Vehicle) industry chain, the market status of Main Inverter (Electric Traction) (Automotive-grade IGBT Modules, Automotive-grade SiC Modules), OBC (Automotive-grade IGBT Modules, Automotive-grade SiC Modules), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of IGBT and SiC Module for EV (Electric Vehicle).

Regionally, the report analyzes the IGBT and SiC Module for EV (Electric Vehicle) 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 IGBT and SiC Module for EV (Electric Vehicle) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the IGBT and SiC Module for EV (Electric Vehicle) 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 IGBT and SiC Module for EV (Electric Vehicle) 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., Automotive-grade IGBT Modules, Automotive-grade SiC Modules).

**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 IGBT and SiC Module for EV (Electric Vehicle) market.

**Regional Analysis:** The report involves examining the IGBT and SiC Module for EV (Electric Vehicle) 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 IGBT and SiC Module for EV (Electric Vehicle) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to IGBT and SiC Module for EV (Electric Vehicle):

**Company Analysis:** Report covers individual IGBT and SiC Module for EV (Electric Vehicle) 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 IGBT and SiC Module for EV (Electric Vehicle) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Main Inverter (Electric Traction), OBC).

**Technology Analysis:** Report covers specific technologies relevant to IGBT and SiC Module for EV (Electric Vehicle). It assesses the current state, advancements, and potential future developments in IGBT and SiC Module for EV (Electric Vehicle) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the IGBT and SiC Module for EV (Electric Vehicle) 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**

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 of volume and value.

#### Market segment by Type

Automotive-grade IGBT Modules

Automotive-grade SiC Modules

#### Market segment by Application

Main Inverter (Electric Traction)

OBC

DC/DC Converter for EV/HEV

#### Major players covered

Infineon

Mitsubishi Electric (Vincotech)

Fuji Electric

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

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 IGBT and SiC Module for EV (Electric Vehicle) product scope,

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market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of IGBT and SiC Module for EV (Electric Vehicle), with price, sales, revenue and global market share of IGBT and SiC Module for EV (Electric Vehicle) from 2018 to 2023.

Chapter 3, the IGBT and SiC Module for EV (Electric Vehicle) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the IGBT and SiC Module for EV (Electric Vehicle) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2022. and IGBT and SiC Module for EV (Electric Vehicle) market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

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 IGBT and SiC Module for EV (Electric Vehicle).

Chapter 14 and 15, to describe IGBT and SiC Module for EV (Electric Vehicle) sales channel, distributors, customers, research findings and conclusion.

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