

Global IGBT and SiC Module for EV (Electric Vehicle) Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G67637225E34EN.html>

Date: September 2023

Pages: 122

Price: US\$ 4,480.00 (Single User License)

ID: G67637225E34EN

Abstracts

The global IGBT and SiC Module for EV (Electric Vehicle) market size is expected to reach \$ 17200 million by 2029, rising at a market growth of 20.4% CAGR during the forecast period (2023-2029).

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.

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.

This report studies the global IGBT and SiC Module for EV (Electric Vehicle) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for IGBT and SiC Module for EV (Electric Vehicle), and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of IGBT and SiC Module for EV (Electric Vehicle) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global IGBT and SiC Module for EV (Electric Vehicle) total production and demand, 2018-2029, (K Units)

Global IGBT and SiC Module for EV (Electric Vehicle) total production value, 2018-2029, (USD Million)

Global IGBT and SiC Module for EV (Electric Vehicle) production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global IGBT and SiC Module for EV (Electric Vehicle) consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: IGBT and SiC Module for EV (Electric Vehicle) domestic production, consumption, key domestic manufacturers and share

Global IGBT and SiC Module for EV (Electric Vehicle) production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global IGBT and SiC Module for EV (Electric Vehicle) production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global IGBT and SiC Module for EV (Electric Vehicle) production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global IGBT and SiC Module for EV (Electric Vehicle) market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon, Mitsubishi Electric (Vincotech), Fuji Electric, Semikron Danfoss, Hitachi Power Semiconductor Device, Bosch, onsemi, Microchip (Microsemi) and STMicroelectronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World IGBT and SiC Module for EV (Electric Vehicle) market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global IGBT and SiC Module for EV (Electric Vehicle) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IGBT and SiC Module for EV (Electric Vehicle) Market, Segmentation by Type

Automotive-grade IGBT Modules

Automotive-grade SiC Modules

Global IGBT and SiC Module for EV (Electric Vehicle) Market, Segmentation by Application

Main Inverter (Electric Traction)

OBC

DC/DC Converter for EV/HEV

Companies Profiled:

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 CRRRC Times Electric

BASiC Semiconductor

Guangdong AccoPower Semiconductor

Grecon Semiconductor (Shanghai) Co., Ltd

Key Questions Answered

1. How big is the global IGBT and SiC Module for EV (Electric Vehicle) market?
2. What is the demand of the global IGBT and SiC Module for EV (Electric Vehicle) market?
3. What is the year over year growth of the global IGBT and SiC Module for EV (Electric Vehicle) market?
4. What is the production and production value of the global IGBT and SiC Module for EV (Electric Vehicle) market?
5. Who are the key producers in the global IGBT and SiC Module for EV (Electric Vehicle) market?

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