

Global IGBT and SiC Module Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global IGBT and SiC Module market size is expected to reach \$ 20490 million by 2029, rising at a market growth of 17.7% 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.

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 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for IGBT and SiC Module, 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 that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

U.S. VS China: IGBT and SiC Module domestic production, consumption, key domestic manufacturers and share

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

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

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

This reports profiles key players in the global IGBT and SiC Module 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, Toshiba and Littelfuse (IXYS), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World IGBT and SiC Module 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 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IGBT and SiC Module Market, Segmentation by Type

IGBT Modules

SiC Modules

Global IGBT and SiC Module Market, Segmentation by Application

Automotive & EV/HEV

Industrial Control

Consumer Appliances

Wind power, PV, Energy Storage

Rail Transport

UPS, Data Center & Server

Military & Avionics

Others

Companies Profiled:

Infineon

Mitsubishi Electric (Vincotech)

Fuji Electric

Semikron Danfoss

Hitachi Power Semiconductor Device

Bosch

onsemi

Toshiba

Littelfuse (IXYS)

Microchip (Microsemi)

STMicroelectronics

Vishay

Denso

SanRex Corporation

Cisroid

StarPower Semiconductor

BYD

Zhuzhou CRRC Times Electric

Hangzhou Silan Microelectronics

MacMic Science & Technology

China Resources Microelectronics Limited

Yangzhou Yangjie Electronic Technology

EcoSemitek

BASiC Semiconductor

SemiQ

GE Aerospace

Guangdong AccoPower Semiconductor

Key Questions Answered

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

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