

Global IGBT Power Module Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global IGBT Power Module market size was valued at USD 5466.3 million in 2023 and is forecast to a readjusted size of USD 12870 million by 2030 with a CAGR of 13.0% during review period.

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.

An IGBT-Based Power Module functions as a switch and can be used to switch electrical power on and off extremely fast and with high energy efficiency. The IGBT power module is becoming the preferred device for high power applications due to its ability to enhance switching, temperature, weight and cost performance.

Global 5 largest manufacturers of IGBT Power Module are Infineon, Mitsubishi Electric (Vincotech), Fuji Electric, Semikron Danfoss and StarPower Semiconductor, which make up about 70%. Among them, Infineon is the leader with about 30% market share.

China is the largest market, has a share over 40%, followed by EMEA and APAC (excluding China), with share about 30% and 18%, separately. In terms of product type, MV IGBT Modules are the largest segment, with a share about 56%. In terms of product application, the largest application is automotive & EV/HEV, with a share about 33%, followed by industrial control and wind power, PV, energy storage.

The Global Info Research report includes an overview of the development of the IGBT

Power Module industry chain, the market status of Automotive & EV/HEV (LV IGBT Modules, MV IGBT Modules), Industrial Control (LV IGBT Modules, MV IGBT Modules), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of IGBT Power Module.

Regionally, the report analyzes the IGBT Power Module 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 Power Module market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the IGBT Power Module 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 Power Module 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., LV IGBT Modules, MV IGBT 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 Power Module market.

Regional Analysis: The report involves examining the IGBT Power Module 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 Power Module 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 Power Module:

Company Analysis: Report covers individual IGBT Power Module 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 Power Module. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive & EV/HEV, Industrial Control).

Technology Analysis: Report covers specific technologies relevant to IGBT Power Module. It assesses the current state, advancements, and potential future developments in IGBT Power Module areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the IGBT Power Module 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 Power Module 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.

Market segment by Type

LV IGBT Modules

MV IGBT Modules

HV IGBT Modules

Market segment by Application

Automotive & EV/HEV

Industrial Control

Consumer Appliances

Wind power, PV, Energy Storage

Traction

Military & Avionics

Others

Major players covered

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

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 Power Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of IGBT Power Module, with price, sales, revenue and global market share of IGBT Power Module from 2019 to 2024.

Chapter 3, the IGBT Power Module competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the IGBT Power Module breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2023. and IGBT Power Module market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Power Module.

Chapter 14 and 15, to describe IGBT Power Module sales channel, distributors, customers, research findings and conclusion.

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