

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

<https://marketpublishers.com/r/G0F64998884EN.html>

Date: November 2024

Pages: 99

Price: US\$ 3,480.00 (Single User License)

ID: G0F64998884EN

Abstracts

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

An IGBT 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-based power module is formed by arranging several IGBTs in parallel in a single casing.

HVDC technology is primarily used for efficiently transmitting large amounts of electricity over long distances. Motors, lights, and other high-power applications use AC voltage. AC voltage produced at the source has the need to be converted to DC power for reducing transmission losses and then converted back to AC electricity at the destination. Voltage-source converters employed for this purpose use insulated-gate bipolar transistor (IGBT) power modules for high voltage applications. HVDC technology involves fewer transmission lines, less land to set up transmission lines, and incur fewer transmission losses. Also, HVDC systems are more stable, can be easily controlled, and can be interconnected with AC power networks, which will, in turn, increase the adoption of HVDC systems in the power sector.

The Global Info Research report includes an overview of the development of the IGBT-Based Power Module industry chain, the market status of Consumer Appliances (High Power, Medium Power), Industrial Motor Drives (High Power, Medium Power), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of IGBT-Based Power Module.

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

Key Features:

The report presents comprehensive understanding of the IGBT-Based 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-Based 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., High Power, Medium Power).

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-Based Power Module market.

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

Company Analysis: Report covers individual IGBT-Based 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-Based Power Module. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Appliances, Industrial Motor Drives).

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

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

High Power

Medium Power

Low Power

Market segment by Application

Consumer Appliances

Industrial Motor Drives

Power Supplies

Renewable Energy

Railroad Traction

Major players covered

Fairchild Semiconductor

Fuji Electric

Infineon Technologies

Mitsubishi

Semikron

STMicroelectronics

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

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

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

Chapter 4, the IGBT-Based 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-Based 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-Based Power Module.

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

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