

Global Power Module Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Power Module market size was valued at US\$ 8606 million in 2024 and is forecast to a readjusted size of USD 14750 million by 2031 with a CAGR of 9.1% during review period.

This Report studies the Power modules, mainly include the IGBT modules, SiC MOSFET modules and others.

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.

SiC (Silicon Carbide) MOSFET modules are power electronic devices based on wide-bandgap semiconductor material silicon carbide, utilizing a Metal-Oxide-Semiconductor Field-Effect Transistor (MOSFET) structure for high-efficiency power conversion. Compared to traditional silicon-based devices, SiC MOSFETs offer superior characteristics such as higher voltage tolerance, faster switching frequencies, high-temperature operation, and lower conduction losses.

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.

Global SiC modules are dominated by STMicroelectronics, onsemi, Infineon, Wolfspeed, Rohm, BYD Semiconductor, Bosch, and United Nova Technology, etc.

This report is a detailed and comprehensive analysis for global Power Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Power Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Power Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Power Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Power Module market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Power Module

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Power Module market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon, STMicroelectronics, onsemi, BYD, Fuji Electric, Mitsubishi Electric, Semikron Danfoss, Bosch, Zhuzhou CRRC Times Electric, StarPower Semiconductor, etc.

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

Market Segmentation

Power Module market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

IGBT Modules

SiC 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

STMicroelectronics

onsemi

BYD

Fuji Electric

Mitsubishi Electric

Semikron Danfoss

Bosch

Zhuzhou CRRC Times Electric

StarPower Semiconductor

Wolfspeed

MacMic Science & Technology

Hangzhou Silan Microelectronics

Hitachi Power Semiconductor Device

United Nova Technology

Rohm

Microchip (Microsemi)

Guangdong AccoPower Semiconductor

Grecon Semiconductor (Shanghai)

Toshiba

Littelfuse (IXYS)

PN Junction Semiconductor (Hangzhou)

ANHI Semiconductor

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

Chapter 2, to profile the top manufacturers of Power Module, with price, sales quantity, revenue, and global market share of Power Module from 2020 to 2025.

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

Chapter 4, the Power Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Power Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Power Module.

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

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