

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

<https://marketpublishers.com/r/G8E14DB283C8EN.html>

Date: July 2023

Pages: 131

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

ID: G8E14DB283C8EN

Abstracts

The global IGBT Power Module market size is expected to reach \$ 12870 million by 2029, rising at a market growth of 13.0% CAGR during the forecast period (2023-2029).

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.

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.

This report studies the global IGBT Power Module production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This reports profiles key players in the global IGBT Power 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 Power 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 Power Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IGBT Power Module Market, Segmentation by Type

LV IGBT Modules

MV IGBT Modules

HV IGBT Modules

Global IGBT Power Module Market, Segmentation by Application

Automotive & EV/HEV

Industrial Control

Consumer Appliances

Wind power, PV, Energy Storage

Traction

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

Cisoid

StarPower Semiconductor

BYD

Zhuzhou CRRC Times Electric

Hangzhou Silan Microelectronics

MacMic Science & Technology

China Resources Microelectronics Limited

Yangzhou Yangjie Electronic Technology

EcoSemitek

Key Questions Answered

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

6. What are the growth factors driving the market demand?

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