

Insulated-Gate Bipolar Transistors (IGBTs) Market by Type (Discrete IGBT, IGBT Module), Power Rate (High Power, Medium Power, Low Power), Application (Energy & Power, Consumer Electronics, Inverter & UPS, Electric Vehicle) - Global Opportunity Analysis and Industry Forecast, 2014 - 2022

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Abstracts

Insulated-Gate Bipolar Transistor (IGBT) is a three-terminal electronic switching device, which is a combination of Metal–Oxide–Semiconductor Field-Effect Transistor (MOSFET) and Bipolar Junction Transistor (BJT) in monolithic form. It allows the flow of power only when the gate terminal is connected to the positive supply of the source. Moreover, it is a minority-carrier device with several benefits such as large bipolar current-carrying capability and high input impedance. IGBT aims to deliver faster switching rate and higher efficiency to enable proper operations at high voltage or high current. In addition, it can be used for dynamic breaking, where the power is dissipated by resistors that are connected in parallel or in series. It is widely used in high power rating applications, which include electric vehicle motor drives, inductive heating cookers, and appliance motor drives.

IGBT is widely used in various applications such as renewable energy, High Voltage Direct Current (HVDC), motor drive, and consumer electronics, owing to its faster switching rate, high efficiency, and improved durability. Moreover, it supports high input impedance and improved parallel current sharing; thereby, fueling the market growth. However, performance issues, such as current leakage and breakdown, hamper the market growth. Proactive government initiatives to establish HVDCs & smart grids and increase in demand for consumer electronic are expected to provide lucrative opportunities to market players in the near future.

The world IGBT market is segmented on the basis of type, power rating, application,

and geography. The type segment is bifurcated into discrete IGBT and IGBT modules. The power rating segment includes high power, medium power, and low power IGBTs. Based on application, the market is segment into energy & power, consumer electronics, inverter & UPS, electrical vehicle, industrial system, and others. Based on geography, the market is analyzed into North America (U.S., Mexico, and Canada), Europe (UK, Germany, France, and rest of Europe), Asia-Pacific (China, India, Japan, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa).

The major companies profiled in the report include ABB Group, STMicroelectronics N.V., Toshiba Corporation, IXYS Corporation, Renesas Electronics Corp, Semikron International GmbH, Mitsubishi Electric Corp., Infineon Technologies AG, Fuji Electric Co. Ltd., and NXP Semiconductors N.V.

POTENTIAL BENEFITS FOR STAKEHOLDERS

Comprehensive analysis of the current trends and future estimations in the world IGBT market is provided in the report

The report provides a competitive scenario of the market with growth trends, structure, driving factors, scope, opportunities, and challenges

The report includes a detailed analysis of the key segments to provide insights on the market dynamics

Porter's Five Forces analysis highlights the potential of buyers and suppliers as well as provides insights on the competitive structure of the market to devise effective growth strategies and facilitate better decision-making

Value chain analysis provides key inputs on the role of stakeholders involved at various stages

MARKET SEGMENTATION

The world IGBT market is segmented on the basis of type, power rating, application, and geography.

BY TYPE

Discrete IGBT

IGBT Module

BY POWER RATING

High Power

Medium Power

Low Power

BY APPLICATION

Energy & Power

Consumer Electronics

Inverter & UPS

Electric Vehicle

Industrial System

Others (Medical Devices & Traction)

BY GEOGRAPHY

North America

U.S.

Mexico

Canada

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

India

China

Japan

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

ABB Group

STMicroelectronics N.V.

Toshiba Corporation

IXYS Corporation

Renesas Electronics Corp.

Semikron International GmbH

Mitsubishi Electric Corp.,

Infineon Technologies AG

Fuji Electric Co. Ltd.

NXP Semiconductors N.V.

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