

Global New Energy Vehicle IGBT Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global New Energy Vehicle IGBT market size was valued at US\$ 5955 million in 2025 and is forecast to a readjusted size of US\$ 22280 million by 2032 with a CAGR of 21.0% during review period.

IGBT (Insulated Gate Bipolar Transistor) in new energy vehicles is a key power device used to control the electric drive system of electric vehicles. As a power semiconductor device, IGBT can achieve efficient power control and conversion in the electric drive system of electric vehicles. The main function of IGBT is to control the flow of current and voltage in the electric drive system of electric vehicles, thereby achieving speed control and torque output of the electric motor. It is often used in inverters in electric vehicles to convert DC power provided by the battery into AC power to drive the electric motor. The performance of IGBT directly affects the power performance, energy efficiency and stability of electric vehicles.

This report is a detailed and comprehensive analysis for global New Energy Vehicle IGBT 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 New Energy Vehicle IGBT market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global New Energy Vehicle IGBT market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global New Energy Vehicle IGBT market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global New Energy Vehicle IGBT market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 New Energy Vehicle IGBT

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 New Energy Vehicle IGBT 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 Mitsubishi Electric, Infineon Technologies (IR), Fuji Electric, Semikron, Hitachi, ON Semiconductor (Fairchild), ABB, IXYS Corporation, Starpower Semiconductor, CRRC, etc.

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

Market Segmentation

New Energy Vehicle IGBT market is split by Type and by Application. For the period 2021-2032, 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

Below 600V

600-1200V

More than 1200Vy

Market segment by Application

Motor Controller

On-Board Charger (OBC)

Car Air Conditioner

DC Charging Station

Major players covered

Mitsubishi Electric

Infineon Technologies (IR)

Fuji Electric

Semikron

Hitachi

ON Semiconductor (Fairchild)

ABB

IXYS Corporation

Starpower Semiconductor

CRRC

Vishay

MacMic

Silan

BYD

STMicroelectronics

Littelfuse

Rohm 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 New Energy Vehicle IGBT product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of New Energy Vehicle IGBT, with price, sales quantity, revenue, and global market share of New Energy Vehicle IGBT from 2021 to 2026.

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

Chapter 4, the New Energy Vehicle IGBT breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and New Energy Vehicle IGBT market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 New Energy Vehicle IGBT.

Chapter 14 and 15, to describe New Energy Vehicle IGBT sales channel, distributors, customers, research findings and conclusion.

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