

Global 650V Intelligent Power Module (IPM) 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 650V Intelligent Power Module (IPM) market size was valued at US\$ 152 million in 2024 and is forecast to a readjusted size of USD 267 million by 2031 with a CAGR of 8.4% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The 650 V Intelligent Power Module (IPM) is a highly integrated power device designed to efficiently drive motors and manage power conversion in applications such as home appliances, industrial automation, and electric vehicles. It combines high-voltage IGBT or MOSFET switches with gate drivers, protection features, and sometimes control logic into a single compact package. Operating at a voltage rating of 650 V, it offers an optimal balance between switching performance and power handling capability. The IPM enhances system reliability and efficiency by incorporating built-in protections such as overcurrent, undervoltage lockout, and thermal shutdown, making it a cost-effective and space-saving solution for high-performance power electronic systems.

This report is a detailed and comprehensive analysis for global 650V Intelligent Power Module (IPM) 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 650V Intelligent Power Module (IPM) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 650V Intelligent Power Module (IPM) 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 650V Intelligent Power Module (IPM) 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 650V Intelligent Power Module (IPM) 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 650V Intelligent Power Module (IPM)
- 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 650V Intelligent Power Module (IPM) 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 (GaN Systems), Texas Instruments (TI), STMicroelectronics, Renesas Electronics (Transphorm), Onsemi, VisiC Technologies, Fuji Electric, etc.

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

Market Segmentation

650V Intelligent Power Module (IPM) 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

MOSFET

Market segment by Application

Motor Drives

Solar Inverters

Servers/UPS

Others

Major players covered

Infineon (GaN Systems)

Texas Instruments (TI)

STMicroelectronics

Renesas Electronics (Transphorm)

Onsemi

VisIC Technologies

Fuji Electric

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 650V Intelligent Power Module (IPM) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 650V Intelligent Power Module (IPM), with price, sales quantity, revenue, and global market share of 650V Intelligent Power Module (IPM) from 2020 to 2025.

Chapter 3, the 650V Intelligent Power Module (IPM) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 650V Intelligent Power Module (IPM) 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 650V Intelligent Power Module (IPM) 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 650V Intelligent Power Module (IPM).

Chapter 14 and 15, to describe 650V Intelligent Power Module (IPM) sales channel, distributors, customers, research findings and conclusion.

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