

Global Press-pack IGBT Modules 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 Press-pack IGBT Modules market size was valued at US\$ 118 million in 2025 and is forecast to a readjusted size of US\$ 282 million by 2032 with a CAGR of 12.4% during review period.

Press-pack IGBT modules are pressure-contact power semiconductor packages where the main current path relies on external clamping force (pressure contacts) rather than conventional wire bonds / large-area solder joints typically used in plastic isolated-base modules. The structure is commonly implemented in a ceramic/metal hermetic enclosure, enabling strong environmental robustness, double-sided cooling, and straightforward stacking + series connection for valve/stack architectures. In practice, major product types include: (1) Press-pack IGBTs with or without an internal freewheeling diode (FWD); (2) press-pack diode modules used alongside IGBTs to form converter legs; and (3) grid-converter-oriented reverse-conducting press-pack devices (e.g., solutions referenced for HVDC Light applications).

The technology is strongly anchored in high-voltage, high-power, high-availability systems?most notably medium-voltage (MV) drives and VSC-HVDC. As MMC-based VSC-HVDC platforms scale (especially for offshore links), system designers increasingly value press-pack attributes such as low parasitic inductance in stacked layouts, double-sided cooling capability, and system-friendly failure behavior. Hitachi Energy publicly states that its HVDC Light solutions are based on IGBT/BiGT press-pack technology, and points to offshore wind transmission use cases such as Dogger Bank, illustrating where press-pack device stacks are deployed in modern grid infrastructure.

Trends largely follow ?higher power density + higher lifetime assurance?: stronger emphasis on short-circuit failure mode / fail-to-short behavior to support redundancy and availability in HVDC/FACTS stacks, continued improvements in pressure uniformity and long-term contact stability, and tighter thermal integration (double-sided cooling paths, stack-level thermal management), with offshore operation pushing humidity/robustness requirements. Demand drivers include renewable integration and long-distance transmission (HVDC buildout, offshore wind export), grid stability investments (FACTS), and industrial electrification that pulls MV drives toward higher performance and uptime. The competitive landscape remains concentrated among suppliers with both high-voltage die capability and press-pack packaging know-how?e.g., Hitachi Energy (StakPak), Infineon (PressPACK IGBT), Toshiba (Press-Pack IEGT family), Dynex, alongside emerging supply-chain participation in China. The value chain typically runs from upstream silicon power device manufacturing plus ceramic/metal housing & electrode materials ? midstream press-pack assembly, hermetic packaging and screening ? downstream stack/valve and converter OEM integration and field operation (HVDC, STATCOM/FACTS, MV drives).

This report is a detailed and comprehensive analysis for global Press-pack IGBT Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by VCES (Max) 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 Press-pack IGBT Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Press-pack IGBT Modules 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 Press-pack IGBT Modules market size and forecasts, by VCES (Max) and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Press-pack IGBT Modules 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 Press-pack IGBT Modules

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 Press-pack IGBT Modules 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 Littelfuse (IXYS), Zhuzhou CRRC Times Electric, Hitachi Energy, Toshiba, Nari Technology, Infineon, Poseico S.p.A., etc.

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

Market Segmentation

Press-pack IGBT Modules market is split by VCES (Max) and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by VCES (Max), 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 VCES (Max)

4.5KV

Others

Market segment by Diode Integration

IGBT without internal FWD

IGBT with internal FWD

Reverse-conducting Route (RC-IGBT)

Market segment by Application

HVDC & FACTS Power Grid

Industrial Drive, Frequency Converter

Locomotive/ Rail Transport

Major players covered

Littelfuse (IXYS)

Zhuzhou CRRC Times Electric

Hitachi Energy

Toshiba

Nari Technology

Infineon

Poseico S.p.A.

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 Press-pack IGBT Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Press-pack IGBT Modules, with price, sales quantity, revenue, and global market share of Press-pack IGBT Modules from 2021 to 2026.

Chapter 3, the Press-pack IGBT Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Press-pack IGBT Modules 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 VCES (Max) and by Application, with sales market share and growth rate by VCES (Max), 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 Press-pack IGBT Modules market forecast, by regions, by VCES (Max), 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 Press-pack IGBT Modules.

Chapter 14 and 15, to describe Press-pack IGBT Modules sales channel, distributors, customers, research findings and conclusion.

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