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Global Bypass Thyristors for Power Transmission Market Growth 2026-2032

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Abstracts

The global Bypass Thyristors for Power Transmission market size is predicted to grow from US$ 72.68 million in 2025 to US$ 99 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

Bypass thyristors for power transmission are high-power semiconductor devices specifically designed for applications in high-voltage direct current (HVDC) systems, modular multilevel converters (MMC), and traction power supplies. Their primary function is to rapidly conduct large currents during submodule or main switch failures, thereby protecting critical equipment and ensuring system stability. The manufacturing of these devices relies on upstream raw materials such as high-purity silicon wafers, ceramic packaging materials, metallic heat sinks, and high-performance solder alloys, as well as critical components including precise gate driver circuits, trigger controllers, and encapsulated modules. These raw materials and components are supplied by leading global semiconductor and electronic material companies, such as Shin-Etsu Chemical (high-purity silicon), Fuji Electric, Hitachi Energy, Semikron, and Infineon. In 2024, the global sales volume of bypass thyristors for power transmission reached 83,667 units, with an average unit price of USD 851 per piece and an average gross margin of 38.2%. The annual production capacity of a single production line is 6,000 units.

United States market for Bypass Thyristors for Power Transmission is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Bypass Thyristors for Power Transmission is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through

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2032.

Europe market for Bypass Thyristors for Power Transmission is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Bypass Thyristors for Power Transmission players cover Infineon, Dynex Semiconductor, Hitachi Energy, Xi'an Peri Power Semiconductor, Hubei TECHSEM Semiconductor, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Bypass Thyristors for Power Transmission Industry Forecast” looks at past sales and reviews total world Bypass Thyristors for Power Transmission sales in 2025, providing a comprehensive analysis by region and market sector of projected Bypass Thyristors for Power Transmission sales for 2026 through 2032. With Bypass Thyristors for Power Transmission sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Bypass Thyristors for Power Transmission industry.

This Insight Report provides a comprehensive analysis of the global Bypass Thyristors for Power Transmission landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Bypass Thyristors for Power Transmission portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Bypass Thyristors for Power Transmission market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bypass Thyristors for Power Transmission and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Bypass Thyristors for Power Transmission.

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This report presents a comprehensive overview, market shares, and growth opportunities of Bypass Thyristors for Power Transmission market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

1-3 kV

3–6.5 kV

Above 6.5 kV

Segmentation by Structural Function:

Conventional Bypass Thyristor

Asymmetric Bypass Thyristor

Long-Term Short-Circuit Bypass Thyristor

Segmentation by Trigger Type:

Gate-Triggered Type

Self-Triggered Type

Hybrid-Triggered Type

Segmentation by Application:

Bypass for HVDC Converter Valves

Bypass for MMC Submodules

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Bypass for Traction Power Systems

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

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Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Infineon

Dynex Semiconductor

Hitachi Energy

Xi'an Peri Power Semiconductor

Hubei TECHSEM Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bypass Thyristors for Power Transmission market?

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What factors are driving Bypass Thyristors for Power Transmission market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Bypass Thyristors for Power Transmission market opportunities vary by end market size?

How does Bypass Thyristors for Power Transmission break out by Type, by Application?

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