

Global SiC Solid-State Circuit Breakers Market Growth 2025-2031

<https://marketpublishers.com/r/GAB2CE4298FEEN.html>

Date: August 2025

Pages: 89

Price: US\$ 3,660.00 (Single User License)

ID: GAB2CE4298FEEN

Abstracts

The global SiC Solid-State Circuit Breakers market size is predicted to grow from US\$ 130 million in 2025 to US\$ 224 million in 2031; it is expected to grow at a CAGR of 9.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

SiC (Silicon Carbide) solid-state circuit breakers are advanced protection devices built using wide-bandgap semiconductor materials—specifically, silicon carbide power devices—to replace traditional mechanical breakers. These breakers enable ultra-fast switching in microseconds, offering advantages such as arc-less interruption, high voltage tolerance, compact form factor, and improved system efficiency. SiC solid-state breakers are particularly well-suited for demanding applications like electric vehicles, DC microgrids, rail transit, aerospace, and renewable energy systems, where fast fault protection and high reliability are critical.

United States market for SiC Solid-State Circuit Breakers is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for SiC Solid-State Circuit Breakers is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for SiC Solid-State Circuit Breakers is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key SiC Solid-State Circuit Breakers players cover Infineon, Wolfspeed, Qorvo, Redler Technologies, Atom Power, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “SiC Solid-State Circuit Breakers Industry Forecast” looks at past sales and reviews total world SiC Solid-State Circuit Breakers sales in 2024, providing a comprehensive analysis by region and market sector of projected SiC Solid-State Circuit Breakers sales for 2025 through 2031. With SiC Solid-State Circuit Breakers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SiC Solid-State Circuit Breakers industry.

This Insight Report provides a comprehensive analysis of the global SiC Solid-State Circuit Breakers 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 SiC Solid-State Circuit Breakers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SiC Solid-State Circuit Breakers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC Solid-State Circuit Breakers 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 SiC Solid-State Circuit Breakers.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC Solid-State Circuit Breakers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Medium Voltage Circuit Breaker

High Voltage Circuit Breaker

Segmentation by Application:

Electric Vehicles

Microgrids

Data Centers

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

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

Wolfspeed

Qorvo

Redler Technologies

Atom Power

Ideal Power

Microchip Technology

Nexperia

ON Semiconductor

ROHM Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global SiC Solid-State Circuit Breakers market?

What factors are driving SiC Solid-State Circuit Breakers market growth, globally and by region?

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

How do SiC Solid-State Circuit Breakers market opportunities vary by end market size?

How does SiC Solid-State Circuit Breakers break out by Type, by Application?

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