

Global SiC Solid-State Circuit Breakers 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 SiC Solid-State Circuit Breakers market size was valued at US\$ 123 million in 2024 and is forecast to a readjusted size of USD 228 million by 2031 with a CAGR of 8.9% 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.

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.

This report is a detailed and comprehensive analysis for global SiC Solid-State Circuit Breakers 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 SiC Solid-State Circuit Breakers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global SiC Solid-State Circuit Breakers 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 SiC Solid-State Circuit Breakers 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 SiC Solid-State Circuit Breakers 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 SiC Solid-State Circuit Breakers

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 SiC Solid-State Circuit Breakers 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, Wolfspeed, Qorvo, Redler Technologies, Atom Power, Ideal Power, Microchip Technology, Nexperia, ON Semiconductor, ROHM Semiconductor, etc.

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

Market Segmentation

SiC Solid-State Circuit Breakers 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

Medium Voltage Circuit Breaker

High Voltage Circuit Breaker

Market segment by Application

Electric Vehicles

Microgrids

Data Centers

Others

Major players covered

Infineon

Wolfspeed

Qorvo

Redler Technologies

Atom Power

Ideal Power

Microchip Technology

Nexperia

ON Semiconductor

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 SiC Solid-State Circuit Breakers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiC Solid-State Circuit Breakers, with price, sales quantity, revenue, and global market share of SiC Solid-State Circuit Breakers from 2020 to 2025.

Chapter 3, the SiC Solid-State Circuit Breakers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SiC Solid-State Circuit Breakers 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 SiC Solid-State Circuit Breakers 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 SiC Solid-State Circuit Breakers.

Chapter 14 and 15, to describe SiC Solid-State Circuit Breakers sales channel, distributors, customers, research findings and conclusion.

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