

Global SiC PFC Rectifier Device Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global SiC PFC Rectifier Device market size is expected to reach \$ 507 million by 2032, rising at a market growth of 11.2% CAGR during the forecast period (2026-2032).

SiC PFC Rectifier Device is a silicon carbide rectifier device designed for PFC front-end circuits, supporting high-efficiency rectification, low reverse-recovery loss, stable current conduction, and improved power factor correction in high-density server power architectures. Compared with silicon-based rectifier devices or general switching devices, its advantages lie in lower recovery loss, higher operating frequency, better thermal performance, higher power density, and stronger suitability for high-load server power supplies. In 2025, production was approximately 65 million units and the average price was USD 3.5 per unit. The industry's capacity utilization rate in 2025 was about 80% and the average gross margin was around 30%. Upstream, the key inputs include SiC Schottky diodes and packaging materials, with representative suppliers such as Wolfspeed, Infineon Technologies, and Heraeus providing silicon carbide rectifier device materials and advanced packaging materials. The midstream segment focuses on SiC rectifier structure design, wafer processing, chip fabrication, junction and barrier optimization, packaging integration, electrical performance testing, thermal reliability verification, and PFC circuit application matching, which together determine rectification efficiency, voltage and current endurance, heat dissipation, reliability, and cost competitiveness. Downstream, SiC PFC Rectifier Device is mainly used in GPU server power supplies, general server power supplies, and storage server power supplies.

SiC PFC Rectifier Device is becoming more important as server power supplies pursue lower rectification loss, higher switching frequency, and stronger thermal stability. In GPU server power supplies, its value is reflected in reducing recovery loss, improving efficiency, and supporting continuous high-load operation. In general server power

supplies, it helps stabilize front-end conversion and improve reliability. In storage server power supplies, long service life and stable conduction are especially important for uninterrupted operation. As power architectures move toward higher density and compact design, competition will focus on SiC Schottky diode performance, packaging reliability, heat dissipation, voltage endurance, and PFC circuit matching. Suppliers with stronger device consistency can build deeper customer stickiness.

This report studies the global SiC PFC Rectifier Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SiC PFC Rectifier Device and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SiC PFC Rectifier Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SiC PFC Rectifier Device total production and demand, 2021-2032, (K Units)

Global SiC PFC Rectifier Device total production value, 2021-2032, (USD Million)

Global SiC PFC Rectifier Device production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global SiC PFC Rectifier Device consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: SiC PFC Rectifier Device domestic production, consumption, key domestic manufacturers and share

Global SiC PFC Rectifier Device production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global SiC PFC Rectifier Device production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global SiC PFC Rectifier Device production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global SiC PFC Rectifier Device market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wolfspeed (USA), ROHM (Japan), Infineon (Germany), onsemi (USA), STMicroelectronics (Switzerland), CRMICRO (China), Global Power Technology (China), Vishay (USA), BASiC (China), Microchip (USA), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SiC PFC Rectifier Device market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SiC PFC Rectifier Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC PFC Rectifier Device Market, Segmentation by Type:

600V

650V

1200V

Others

Global SiC PFC Rectifier Device Market, Segmentation by Package:

TO-220

TO-247

Others

Global SiC PFC Rectifier Device Market, Segmentation by Current:

Current

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