

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

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Abstracts

The global SiC PFC Switching Device market size is expected to reach \$ 772 million by 2032, rising at a market growth of 12.5% CAGR during the forecast period (2026-2032).

SiC PFC Switching Device is a silicon carbide switching device used in PFC stages, enabling high-speed switching, low-loss current control, and efficient power factor correction in high-density server power architectures. Compared with silicon-based switching devices or general rectifier devices, its advantages lie in lower switching loss, higher operating frequency, better thermal performance, higher power density, and stronger suitability for high-load server power supplies. In 2025, production was approximately 60 million units and the average price was USD 5.5 per unit. The industry's capacity utilization rate in 2025 was about 85% and the average gross margin was around 33%. Upstream, the key inputs include SiC MOSFETs and packaging materials, with representative suppliers such as Wolfspeed, Infineon Technologies, and Heraeus providing core silicon carbide power devices and advanced packaging materials. The midstream segment focuses on switching device structure design, wafer processing, chip fabrication, gate control optimization, packaging integration, electrical performance testing, thermal reliability verification, and server power supply application matching, which together determine switching efficiency, voltage and current endurance, heat dissipation, reliability, and cost competitiveness. Downstream, SiC PFC Switching Device is mainly used in GPU server power supplies, general server power supplies, and storage server power supplies.

SiC PFC Switching Device is becoming more relevant as server power supplies move toward higher power density, faster transient response, and stricter efficiency requirements. In GPU server power supplies, its value is concentrated in reducing switching loss, improving thermal behavior, and supporting continuous high-load

operation. In general server power supplies, it helps improve conversion efficiency and system reliability. In storage server power supplies, stable switching performance and long service life are more important for uninterrupted operation. As downstream designs shift toward compact and high-frequency architectures, competition will focus on SiC MOSFET performance, packaging reliability, gate-control optimization, heat dissipation, and application matching. Suppliers with strong device engineering can build deeper customer stickiness.

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

This report is a detailed and comprehensive analysis of the world market for SiC PFC Switching 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 Switching Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global SiC PFC Switching 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 Switching 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 Switching Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC PFC Switching Device Market, Segmentation by Type:

600V

650V

1200V

Others

Global SiC PFC Switching Device Market, Segmentation by Package:

TO-220

TO-247

Others

Global SiC PFC Switching Device Market, Segmentation by Current:

Current

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