

Global SiC PFC Power Devices Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global SiC PFC Power Devices market size is expected to reach \$ 1341 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

SiC PFC Power Devices are silicon carbide power semiconductor devices used in PFC stages, enabling high-speed switching, efficient rectification, and precise current shaping to reduce harmonic distortion, improve conversion efficiency, and enhance grid-side power quality. Compared with silicon-based PFC devices or ordinary rectifier and switching devices, their advantages lie in lower switching loss, higher operating frequency, better thermal performance, higher power density, and stronger suitability for server power supplies, communication power supplies, and industrial power systems. In 2025, production was approximately 133 million units and the average price was USD 4.5 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 power semiconductor wafers and packaging materials, with representative suppliers such as Wolfspeed, GlobalWafers, and Heraeus providing silicon carbide substrate materials, semiconductor wafers, and advanced packaging materials. The midstream segment focuses on silicon carbide device structure design, wafer processing, chip fabrication, packaging integration, electrical performance testing, thermal reliability verification, and application matching, which together determine switching efficiency, voltage and current endurance, heat dissipation, reliability, and cost competitiveness. Downstream, SiC PFC Power Devices are mainly used in server power supplies, communication power supplies, and industrial power supplies.

SiC PFC Power Devices are gaining value as high-density power systems demand lower loss, higher switching frequency, and stronger thermal performance. In server power supplies, they support higher power density and more stable operation under

continuous high-load conditions. In communication power supplies, their role is tied to grid-side power quality, efficiency, and long service life. In industrial power supplies, they help equipment manufacturers reduce energy loss and improve operating stability. As downstream designs move toward compact, high-efficiency architectures, competition will focus on silicon carbide wafer quality, switching performance, packaging reliability, heat dissipation, and application matching. Suppliers with stronger device engineering and system-level validation can build more durable margin advantages.

This report studies the global SiC PFC Power Devices production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global SiC PFC Power Devices total production and demand, 2021-2032, (K Units)

Global SiC PFC Power Devices total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global SiC PFC Power Devices 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 Power Devices 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 Power Devices Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC PFC Power Devices Market, Segmentation by Type:

600V

650V

1200V

Others

Global SiC PFC Power Devices Market, Segmentation by Package:

TO-220

TO-247

Others

Global SiC PFC Power Devices Market, Segmentation by Current:

Current

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