

Global SiC Power Devices for Solar Inverter Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G5359A8EB269EN.html>

Date: September 2025

Pages: 202

Price: US\$ 3,132.00 (Single User License)

ID: G5359A8EB269EN

Abstracts

According to our (Global Info Research) latest study, the global SiC Power Devices for Solar Inverter market size was valued at US\$ 105 million in 2024 and is forecast to a readjusted size of USD 438 million by 2031 with a CAGR of 22.9% 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.

Silicon Carbide (SiC) power devices are advanced semiconductor components that leverage SiC's wide bandgap properties to deliver superior performance in high-power applications. In solar inverters, SiC devices—such as MOSFETs and Schottky diodes—offer higher voltage operation, faster switching speeds, and better thermal conductivity compared to traditional silicon-based components. These characteristics enable solar inverters to achieve higher efficiency, reduced energy losses, and more compact designs, making them ideal for residential, commercial, and industrial photovoltaic (PV) systems. SiC technology is particularly beneficial in high-voltage applications, with devices commonly rated at 1200V and 1700V, facilitating improved power density and system reliability.

The adoption of SiC power devices in solar inverters is accelerating, driven by the global push for renewable energy and the need for more efficient power conversion solutions. Technological advancements are focusing on the development of larger SiC wafers, such as the transition to 8-inch substrates, and the integration of advanced packaging techniques to enhance device performance and reduce costs. The market is witnessing significant growth, with projections indicating a substantial increase in

demand for SiC-based solutions in the coming years. As governments worldwide implement stricter energy efficiency regulations and support renewable energy initiatives, SiC power devices are poised to play a critical role in the evolution of solar inverter technology, contributing to more sustainable and efficient energy systems.

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

Global SiC Power Devices for Solar Inverter 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 Power Devices for Solar Inverter 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 Power Devices for Solar Inverter 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 Power Devices for Solar Inverter
- 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 Power Devices for Solar Inverter 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 STMicroelectronics, Infineon, Wolfspeed, Rohm, onsemi, BYD Semiconductor, Microchip (Microsemi), Mitsubishi Electric (Vincotech), Semikron Danfoss, Fuji Electric, etc.

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

Market Segmentation

SiC Power Devices for Solar Inverter 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

SiC MOSFET Modules

SiC MOSFET Discretes

SiC Diode/SBD

Market segment by Application

Residential & Light Commercial Solar Systems

Industrial & Commercial Solar Systems

Major players covered

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

Qorvo (UnitedSiC)

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cisoid

SK powertech

InventChip Technology

Hebei Sinopack Electronic Technology

Oriental Semiconductor

Jilin Sino-Microelectronics

PN Junction Semiconductor (Hangzhou)

United Nova Technology

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 Power Devices for Solar Inverter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiC Power Devices for Solar Inverter, with price, sales quantity, revenue, and global market share of SiC Power Devices for Solar Inverter from 2020 to 2025.

Chapter 3, the SiC Power Devices for Solar Inverter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SiC Power Devices for Solar Inverter 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 Power Devices for Solar Inverter 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 Power Devices for Solar Inverter.

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