

Global SiC Based Photovoltaic Inverter 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 Based Photovoltaic Inverter market size was valued at US\$ 5836 million in 2024 and is forecast to a readjusted size of USD 9166 million by 2031 with a CAGR of 6.7% during review period.

Silicon Carbide in Photovoltaic Inverter: SiC is used in power electronics devices, like inverters, which deliver energy from photovoltaic (PV) arrays to the electric grid, and other applications, like heat exchangers in concentrating solar power (CSP) plants and electric vehicles. SiC withstands higher temperatures and voltages than silicon, making it a more reliable and versatile inverter component. Inverters convert direct current electricity generated by solar panels from to grid-compatible alternating current.

The global SiC-based photovoltaic (PV) inverter market refers to the market for photovoltaic inverters that utilize silicon carbide (SiC) as the semiconductor material. SiC-based PV inverters offer several advantages over traditional inverters, including higher efficiency, improved thermal management, and higher power density.

Here are some key features and trends in the global SiC-based PV inverter market:

Growing Demand for Solar Energy: The increasing adoption of solar energy as a clean and renewable power source is a significant driver for the SiC-based PV inverter market. SiC-based inverters enable higher energy conversion efficiency, reducing energy losses in the conversion process. As governments and organizations worldwide promote the adoption of solar energy, the demand for SiC-based PV inverters is expected to grow significantly.

Enhanced Efficiency and Power Density: SiC-based PV inverters offer higher efficiency compared to traditional silicon-based inverters. SiC devices have lower switching losses and reduced conduction losses, resulting in improved overall system efficiency. Additionally, SiC-based devices allow for higher power density, enabling more power to be generated from smaller and lightweight inverters.

Improved Thermal Management: SiC-based PV inverters have better thermal properties compared to silicon-based inverters. SiC devices can operate at higher temperatures and handle higher current densities, resulting in improved thermal management. This capability allows SiC-based PV inverters to maintain performance and reliability under challenging operating conditions.

Grid-Friendly Power Conversion: SiC-based PV inverters offer grid-friendly power conversion capabilities. They provide high power quality by regulating the voltage and frequency of the generated solar power, ensuring compatibility with utility grids. SiC-based PV inverters also enable advanced grid management functions such as reactive power control and grid stabilization, contributing to the stability and reliability of the overall power system.

Cost Reduction and Technological Advancements: The SiC-based PV inverter market is witnessing cost reduction initiatives and technological advancements. Manufacturers are investing in research and development to improve SiC device manufacturing processes, reducing production costs. Additionally, advancements in SiC device packaging and integration techniques are being explored to further enhance efficiency and reliability while reducing overall system costs.

Regional Market Growth: The adoption of SiC-based PV inverters varies across regions, depending on factors such as government policies, solar energy market maturity, and the availability of manufacturing capabilities. Currently, regions such as Europe, North America, and Asia Pacific are at the forefront of SiC-based PV inverter adoption due to supportive government policies and the rapid growth of solar installations.

In conclusion, the global SiC-based PV inverter market is experiencing growth driven by the increasing demand for solar energy and the need for higher efficiency and power density in PV systems. SiC-based PV inverters offer advantages such as enhanced efficiency, improved thermal management, and grid-friendly power conversion. With ongoing cost reduction efforts and technological advancements, the SiC-based PV inverter market is expected to continue growing as solar energy adoption expands worldwide.

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

Global SiC Based Photovoltaic 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 Based Photovoltaic 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 Based Photovoltaic 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 Based Photovoltaic Inverter
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global SiC Based Photovoltaic 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, Cree, Inc., ON Semiconductor, ROHM CO., LTD., Infineon Technologies AG, NXP Semiconductor NV, ABB Group, Renesas Electronics Corporation, Fuji Electric Co, Ltd., Mitsubishi Electric Corp., etc.

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

Market Segmentation

SiC Based Photovoltaic 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

Isolated Photovoltaic Inverter

Non-isolated Photovoltaic Inverter

Market segment by Application

Automotive

Consumer Electronics

IT & Telecommunication

Aerospace & Defense

Others

Major players covered

STMicroelectronics

Cree, Inc.

ON Semiconductor

ROHM CO., LTD.

Infineon Technologies AG

NXP Semiconductor NV

ABB Group

Renesas Electronics Corporation

Fuji Electric Co, Ltd.

Mitsubishi Electric Corp.

McLaren Applied

BorgWarner

Wolfspeed

NXP

Punch Powertrain

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 Based Photovoltaic Inverter product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the SiC Based Photovoltaic 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 Based Photovoltaic 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 Based Photovoltaic Inverter.

Chapter 14 and 15, to describe SiC Based Photovoltaic Inverter sales channel, distributors, customers, research findings and conclusion.

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