

Global Silicon Carbide Power Modules Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/S005E9A2D1AFEN.html>

Date: July 2025

Pages: 211

Price: US\$ 3,480.00 (Single User License)

ID: S005E9A2D1AFEN

Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide Power Modules market size was valued at US\$ 2299 million in 2024 and is forecast to a readjusted size of USD 9806 million by 2031 with a CAGR of 23.3% during review period.

Silicon carbide power modules are semiconductor devices that use silicon carbide as the main material for power switching applications in high-voltage and high-power electronics.

Automotive is the largest market of silicon carbide (SiC) power devices, driven by demand from China, UAS, EU, and Japan. China is one of the world's largest automotive markets, and its growth potential remains high. In particular, high rates of growth for electric-powered vehicles make China one of the largest markets for electromobility.

Global new energy vehicles continue to grow rapidly. In 2023, the total sales of new energy vehicles in the world reached 14.65 million, a simultaneous increase of 35.4%. Among them, China's new energy vehicle sales reached 9.495 million, accounting for 64.8% of global sales. The production and sales of new energy vehicles have ranked first in the world for eight consecutive years. In 2023, the sales of new energy vehicles in the United States and Europe were 2.94 million and 1.46 million respectively, with year-on-year growth rates of 18.3% and 48.0% respectively.

This report is a detailed and comprehensive analysis for global Silicon Carbide Power Modules 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 Silicon Carbide Power Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Silicon Carbide Power Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Silicon Carbide Power Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Silicon Carbide Power Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 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 Silicon Carbide Power Modules
- 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 Silicon Carbide Power Modules 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

Silicon Carbide Power Modules 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

1200V?????

700V/750V?900V?????

1700V/3300V?????

Market segment by Application

Main Inverter (Electric Traction)

Industrial Drives

UPS

Trains & Traction

PV & Energy

Others

Major players covered

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Toshiba

CETC 55

BASiC Semiconductor

SemiQ

SanRex

Bosch

GE Aerospace

Zhuzhou CRRC Times Electric

StarPower

Guangdong AccoPower Semiconductor

Cisoid

United Nova Technology

Hebei Sinopack Electronic Technology

InventChip Technology

ANHI Semiconductor

HAIMOSIC (SHANGHAI)

Shenzhen AST Science Technology

Hangzhou Silan Microelectronics

Wuxi Leapers Semiconductor

WeEn Semiconductors

Denso

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 Silicon Carbide Power Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide Power Modules, with price, sales quantity, revenue, and global market share of Silicon Carbide Power Modules from 2020 to 2025.

Chapter 3, the Silicon Carbide Power Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Carbide Power Modules 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 Silicon Carbide Power Modules 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 Silicon Carbide Power Modules.

Chapter 14 and 15, to describe Silicon Carbide Power Modules sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Silicon Carbide Power Modules Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 1200V?????

1.3.3 700V/750V?900V?????

1.3.4 1700V/3300V?????

1.4 Market Analysis by Application

1.4.1 Overview: Global Silicon Carbide Power Modules Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Main Inverter (Electric Traction)

1.4.3 Industrial Drives

1.4.4 UPS

1.4.5 Trains & Traction

1.4.6 PV & Energy

1.4.7 Others

1.5 Global Silicon Carbide Power Modules Market Size & Forecast

1.5.1 Global Silicon Carbide Power Modules Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Silicon Carbide Power Modules Sales Quantity (2020-2031)

1.5.3 Global Silicon Carbide Power Modules Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 STMicroelectronics

2.1.1 STMicroelectronics Details

2.1.2 STMicroelectronics Major Business

2.1.3 STMicroelectronics Silicon Carbide Power Modules Product and Services

2.1.4 STMicroelectronics Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 STMicroelectronics Recent Developments/Updates

2.2 Infineon

2.2.1 Infineon Details

2.2.2 Infineon Major Business

- 2.2.3 Infineon Silicon Carbide Power Modules Product and Services
- 2.2.4 Infineon Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.2.5 Infineon Recent Developments/Updates
- 2.3 Wolfspeed
 - 2.3.1 Wolfspeed Details
 - 2.3.2 Wolfspeed Major Business
 - 2.3.3 Wolfspeed Silicon Carbide Power Modules Product and Services
 - 2.3.4 Wolfspeed Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.3.5 Wolfspeed Recent Developments/Updates
- 2.4 Rohm
 - 2.4.1 Rohm Details
 - 2.4.2 Rohm Major Business
 - 2.4.3 Rohm Silicon Carbide Power Modules Product and Services
 - 2.4.4 Rohm Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.4.5 Rohm Recent Developments/Updates
- 2.5 onsemi
 - 2.5.1 onsemi Details
 - 2.5.2 onsemi Major Business
 - 2.5.3 onsemi Silicon Carbide Power Modules Product and Services
 - 2.5.4 onsemi Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.5.5 onsemi Recent Developments/Updates
- 2.6 BYD Semiconductor
 - 2.6.1 BYD Semiconductor Details
 - 2.6.2 BYD Semiconductor Major Business
 - 2.6.3 BYD Semiconductor Silicon Carbide Power Modules Product and Services
 - 2.6.4 BYD Semiconductor Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.6.5 BYD Semiconductor Recent Developments/Updates
- 2.7 Microchip (Microsemi)
 - 2.7.1 Microchip (Microsemi) Details
 - 2.7.2 Microchip (Microsemi) Major Business
 - 2.7.3 Microchip (Microsemi) Silicon Carbide Power Modules Product and Services
 - 2.7.4 Microchip (Microsemi) Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.7.5 Microchip (Microsemi) Recent Developments/Updates

2.8 Mitsubishi Electric (Vincotech)

2.8.1 Mitsubishi Electric (Vincotech) Details

2.8.2 Mitsubishi Electric (Vincotech) Major Business

2.8.3 Mitsubishi Electric (Vincotech) Silicon Carbide Power Modules Product and Services

2.8.4 Mitsubishi Electric (Vincotech) Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 Mitsubishi Electric (Vincotech) Recent Developments/Updates

2.9 Semikron Danfoss

2.9.1 Semikron Danfoss Details

2.9.2 Semikron Danfoss Major Business

2.9.3 Semikron Danfoss Silicon Carbide Power Modules Product and Services

2.9.4 Semikron Danfoss Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 Semikron Danfoss Recent Developments/Updates

2.10 Fuji Electric

2.10.1 Fuji Electric Details

2.10.2 Fuji Electric Major Business

2.10.3 Fuji Electric Silicon Carbide Power Modules Product and Services

2.10.4 Fuji Electric Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 Fuji Electric Recent Developments/Updates

2.11 Toshiba

2.11.1 Toshiba Details

2.11.2 Toshiba Major Business

2.11.3 Toshiba Silicon Carbide Power Modules Product and Services

2.11.4 Toshiba Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.11.5 Toshiba Recent Developments/Updates

2.12 CETC 55

2.12.1 CETC 55 Details

2.12.2 CETC 55 Major Business

2.12.3 CETC 55 Silicon Carbide Power Modules Product and Services

2.12.4 CETC 55 Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.12.5 CETC 55 Recent Developments/Updates

2.13 BASiC Semiconductor

2.13.1 BASiC Semiconductor Details

2.13.2 BASiC Semiconductor Major Business

- 2.13.3 BASiC Semiconductor Silicon Carbide Power Modules Product and Services
- 2.13.4 BASiC Semiconductor Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.13.5 BASiC Semiconductor Recent Developments/Updates
- 2.14 SemiQ
 - 2.14.1 SemiQ Details
 - 2.14.2 SemiQ Major Business
 - 2.14.3 SemiQ Silicon Carbide Power Modules Product and Services
 - 2.14.4 SemiQ Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.14.5 SemiQ Recent Developments/Updates
- 2.15 SanRex
 - 2.15.1 SanRex Details
 - 2.15.2 SanRex Major Business
 - 2.15.3 SanRex Silicon Carbide Power Modules Product and Services
 - 2.15.4 SanRex Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.15.5 SanRex Recent Developments/Updates
- 2.16 Bosch
 - 2.16.1 Bosch Details
 - 2.16.2 Bosch Major Business
 - 2.16.3 Bosch Silicon Carbide Power Modules Product and Services
 - 2.16.4 Bosch Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.16.5 Bosch Recent Developments/Updates
- 2.17 GE Aerospace
 - 2.17.1 GE Aerospace Details
 - 2.17.2 GE Aerospace Major Business
 - 2.17.3 GE Aerospace Silicon Carbide Power Modules Product and Services
 - 2.17.4 GE Aerospace Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.17.5 GE Aerospace Recent Developments/Updates
- 2.18 Zhuzhou CRRC Times Electric
 - 2.18.1 Zhuzhou CRRC Times Electric Details
 - 2.18.2 Zhuzhou CRRC Times Electric Major Business
 - 2.18.3 Zhuzhou CRRC Times Electric Silicon Carbide Power Modules Product and Services
 - 2.18.4 Zhuzhou CRRC Times Electric Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

- 2.18.5 Zhuzhou CRRC Times Electric Recent Developments/Updates
- 2.19 StarPower
 - 2.19.1 StarPower Details
 - 2.19.2 StarPower Major Business
 - 2.19.3 StarPower Silicon Carbide Power Modules Product and Services
 - 2.19.4 StarPower Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.19.5 StarPower Recent Developments/Updates
- 2.20 Guangdong AccoPower Semiconductor
 - 2.20.1 Guangdong AccoPower Semiconductor Details
 - 2.20.2 Guangdong AccoPower Semiconductor Major Business
 - 2.20.3 Guangdong AccoPower Semiconductor Silicon Carbide Power Modules Product and Services
 - 2.20.4 Guangdong AccoPower Semiconductor Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.20.5 Guangdong AccoPower Semiconductor Recent Developments/Updates
- 2.21 Cisoid
 - 2.21.1 Cisoid Details
 - 2.21.2 Cisoid Major Business
 - 2.21.3 Cisoid Silicon Carbide Power Modules Product and Services
 - 2.21.4 Cisoid Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.21.5 Cisoid Recent Developments/Updates
- 2.22 United Nova Technology
 - 2.22.1 United Nova Technology Details
 - 2.22.2 United Nova Technology Major Business
 - 2.22.3 United Nova Technology Silicon Carbide Power Modules Product and Services
 - 2.22.4 United Nova Technology Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.22.5 United Nova Technology Recent Developments/Updates
- 2.23 Hebei Sinopack Electronic Technology
 - 2.23.1 Hebei Sinopack Electronic Technology Details
 - 2.23.2 Hebei Sinopack Electronic Technology Major Business
 - 2.23.3 Hebei Sinopack Electronic Technology Silicon Carbide Power Modules Product and Services
 - 2.23.4 Hebei Sinopack Electronic Technology Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.23.5 Hebei Sinopack Electronic Technology Recent Developments/Updates
- 2.24 InventChip Technology

- 2.24.1 InventChip Technology Details
- 2.24.2 InventChip Technology Major Business
- 2.24.3 InventChip Technology Silicon Carbide Power Modules Product and Services
- 2.24.4 InventChip Technology Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.24.5 InventChip Technology Recent Developments/Updates
- 2.25 ANHI Semiconductor
 - 2.25.1 ANHI Semiconductor Details
 - 2.25.2 ANHI Semiconductor Major Business
 - 2.25.3 ANHI Semiconductor Silicon Carbide Power Modules Product and Services
 - 2.25.4 ANHI Semiconductor Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.25.5 ANHI Semiconductor Recent Developments/Updates
- 2.26 HAIMOSIC (SHANGHAI)
 - 2.26.1 HAIMOSIC (SHANGHAI) Details
 - 2.26.2 HAIMOSIC (SHANGHAI) Major Business
 - 2.26.3 HAIMOSIC (SHANGHAI) Silicon Carbide Power Modules Product and Services
 - 2.26.4 HAIMOSIC (SHANGHAI) Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.26.5 HAIMOSIC (SHANGHAI) Recent Developments/Updates
- 2.27 Shenzhen AST Science Technology
 - 2.27.1 Shenzhen AST Science Technology Details
 - 2.27.2 Shenzhen AST Science Technology Major Business
 - 2.27.3 Shenzhen AST Science Technology Silicon Carbide Power Modules Product and Services
 - 2.27.4 Shenzhen AST Science Technology Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.27.5 Shenzhen AST Science Technology Recent Developments/Updates
- 2.28 Hangzhou Silan Microelectronics
 - 2.28.1 Hangzhou Silan Microelectronics Details
 - 2.28.2 Hangzhou Silan Microelectronics Major Business
 - 2.28.3 Hangzhou Silan Microelectronics Silicon Carbide Power Modules Product and Services
 - 2.28.4 Hangzhou Silan Microelectronics Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.28.5 Hangzhou Silan Microelectronics Recent Developments/Updates
- 2.29 Wuxi Leapers Semiconductor
 - 2.29.1 Wuxi Leapers Semiconductor Details
 - 2.29.2 Wuxi Leapers Semiconductor Major Business

2.29.3 Wuxi Leapers Semiconductor Silicon Carbide Power Modules Product and Services

2.29.4 Wuxi Leapers Semiconductor Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.29.5 Wuxi Leapers Semiconductor Recent Developments/Updates

2.30 WeEn Semiconductors

2.30.1 WeEn Semiconductors Details

2.30.2 WeEn Semiconductors Major Business

2.30.3 WeEn Semiconductors Silicon Carbide Power Modules Product and Services

2.30.4 WeEn Semiconductors Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.30.5 WeEn Semiconductors Recent Developments/Updates

2.31 Denso

2.31.1 Denso Details

2.31.2 Denso Major Business

2.31.3 Denso Silicon Carbide Power Modules Product and Services

2.31.4 Denso Silicon Carbide Power Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.31.5 Denso Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SILICON CARBIDE POWER MODULES BY MANUFACTURER

3.1 Global Silicon Carbide Power Modules Sales Quantity by Manufacturer (2020-2025)

3.2 Global Silicon Carbide Power Modules Revenue by Manufacturer (2020-2025)

3.3 Global Silicon Carbide Power Modules Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Silicon Carbide Power Modules by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 Silicon Carbide Power Modules Manufacturer Market Share in 2024

3.4.3 Top 6 Silicon Carbide Power Modules Manufacturer Market Share in 2024

3.5 Silicon Carbide Power Modules Market: Overall Company Footprint Analysis

3.5.1 Silicon Carbide Power Modules Market: Region Footprint

3.5.2 Silicon Carbide Power Modules Market: Company Product Type Footprint

3.5.3 Silicon Carbide Power Modules Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Silicon Carbide Power Modules Market Size by Region

4.1.1 Global Silicon Carbide Power Modules Sales Quantity by Region (2020-2031)

4.1.2 Global Silicon Carbide Power Modules Consumption Value by Region (2020-2031)

4.1.3 Global Silicon Carbide Power Modules Average Price by Region (2020-2031)

4.2 North America Silicon Carbide Power Modules Consumption Value (2020-2031)

4.3 Europe Silicon Carbide Power Modules Consumption Value (2020-2031)

4.4 Asia-Pacific Silicon Carbide Power Modules Consumption Value (2020-2031)

4.5 South America Silicon Carbide Power Modules Consumption Value (2020-2031)

4.6 Middle East & Africa Silicon Carbide Power Modules Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Silicon Carbide Power Modules Sales Quantity by Type (2020-2031)

5.2 Global Silicon Carbide Power Modules Consumption Value by Type (2020-2031)

5.3 Global Silicon Carbide Power Modules Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Silicon Carbide Power Modules Sales Quantity by Application (2020-2031)

6.2 Global Silicon Carbide Power Modules Consumption Value by Application (2020-2031)

6.3 Global Silicon Carbide Power Modules Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America Silicon Carbide Power Modules Sales Quantity by Type (2020-2031)

7.2 North America Silicon Carbide Power Modules Sales Quantity by Application (2020-2031)

7.3 North America Silicon Carbide Power Modules Market Size by Country

7.3.1 North America Silicon Carbide Power Modules Sales Quantity by Country (2020-2031)

7.3.2 North America Silicon Carbide Power Modules Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe Silicon Carbide Power Modules Sales Quantity by Type (2020-2031)

8.2 Europe Silicon Carbide Power Modules Sales Quantity by Application (2020-2031)

8.3 Europe Silicon Carbide Power Modules Market Size by Country

8.3.1 Europe Silicon Carbide Power Modules Sales Quantity by Country (2020-2031)

8.3.2 Europe Silicon Carbide Power Modules Consumption Value by Country
(2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific Silicon Carbide Power Modules Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Silicon Carbide Power Modules Sales Quantity by Application
(2020-2031)

9.3 Asia-Pacific Silicon Carbide Power Modules Market Size by Region

9.3.1 Asia-Pacific Silicon Carbide Power Modules Sales Quantity by Region
(2020-2031)

9.3.2 Asia-Pacific Silicon Carbide Power Modules Consumption Value by Region
(2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America Silicon Carbide Power Modules Sales Quantity by Type
(2020-2031)

10.2 South America Silicon Carbide Power Modules Sales Quantity by Application
(2020-2031)

10.3 South America Silicon Carbide Power Modules Market Size by Country

10.3.1 South America Silicon Carbide Power Modules Sales Quantity by Country (2020-2031)

10.3.2 South America Silicon Carbide Power Modules Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Silicon Carbide Power Modules Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa Silicon Carbide Power Modules Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Silicon Carbide Power Modules Market Size by Country

11.3.1 Middle East & Africa Silicon Carbide Power Modules Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Silicon Carbide Power Modules Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 Silicon Carbide Power Modules Market Drivers

12.2 Silicon Carbide Power Modules Market Restraints

12.3 Silicon Carbide Power Modules Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Silicon Carbide Power Modules and Key Manufacturers

13.2 Manufacturing Costs Percentage of Silicon Carbide Power Modules

13.3 Silicon Carbide Power Modules Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Silicon Carbide Power Modules Typical Distributors

14.3 Silicon Carbide Power Modules Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Silicon Carbide Power Modules Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Silicon Carbide Power Modules Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 4. STMicroelectronics Major Business

Table 5. STMicroelectronics Silicon Carbide Power Modules Product and Services

Table 6. STMicroelectronics Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. STMicroelectronics Recent Developments/Updates

Table 8. Infineon Basic Information, Manufacturing Base and Competitors

Table 9. Infineon Major Business

Table 10. Infineon Silicon Carbide Power Modules Product and Services

Table 11. Infineon Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Infineon Recent Developments/Updates

Table 13. Wolfspeed Basic Information, Manufacturing Base and Competitors

Table 14. Wolfspeed Major Business

Table 15. Wolfspeed Silicon Carbide Power Modules Product and Services

Table 16. Wolfspeed Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Wolfspeed Recent Developments/Updates

Table 18. Rohm Basic Information, Manufacturing Base and Competitors

Table 19. Rohm Major Business

Table 20. Rohm Silicon Carbide Power Modules Product and Services

Table 21. Rohm Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Rohm Recent Developments/Updates

Table 23. onsemi Basic Information, Manufacturing Base and Competitors

Table 24. onsemi Major Business

Table 25. onsemi Silicon Carbide Power Modules Product and Services

Table 26. onsemi Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. onsemi Recent Developments/Updates

Table 28. BYD Semiconductor Basic Information, Manufacturing Base and Competitors
Table 29. BYD Semiconductor Major Business
Table 30. BYD Semiconductor Silicon Carbide Power Modules Product and Services
Table 31. BYD Semiconductor Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 32. BYD Semiconductor Recent Developments/Updates
Table 33. Microchip (Microsemi) Basic Information, Manufacturing Base and Competitors
Table 34. Microchip (Microsemi) Major Business
Table 35. Microchip (Microsemi) Silicon Carbide Power Modules Product and Services
Table 36. Microchip (Microsemi) Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 37. Microchip (Microsemi) Recent Developments/Updates
Table 38. Mitsubishi Electric (Vincotech) Basic Information, Manufacturing Base and Competitors
Table 39. Mitsubishi Electric (Vincotech) Major Business
Table 40. Mitsubishi Electric (Vincotech) Silicon Carbide Power Modules Product and Services
Table 41. Mitsubishi Electric (Vincotech) Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 42. Mitsubishi Electric (Vincotech) Recent Developments/Updates
Table 43. Semikron Danfoss Basic Information, Manufacturing Base and Competitors
Table 44. Semikron Danfoss Major Business
Table 45. Semikron Danfoss Silicon Carbide Power Modules Product and Services
Table 46. Semikron Danfoss Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 47. Semikron Danfoss Recent Developments/Updates
Table 48. Fuji Electric Basic Information, Manufacturing Base and Competitors
Table 49. Fuji Electric Major Business
Table 50. Fuji Electric Silicon Carbide Power Modules Product and Services
Table 51. Fuji Electric Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 52. Fuji Electric Recent Developments/Updates
Table 53. Toshiba Basic Information, Manufacturing Base and Competitors
Table 54. Toshiba Major Business

Table 55. Toshiba Silicon Carbide Power Modules Product and Services
Table 56. Toshiba Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 57. Toshiba Recent Developments/Updates
Table 58. CETC 55 Basic Information, Manufacturing Base and Competitors
Table 59. CETC 55 Major Business
Table 60. CETC 55 Silicon Carbide Power Modules Product and Services
Table 61. CETC 55 Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 62. CETC 55 Recent Developments/Updates
Table 63. BASiC Semiconductor Basic Information, Manufacturing Base and Competitors
Table 64. BASiC Semiconductor Major Business
Table 65. BASiC Semiconductor Silicon Carbide Power Modules Product and Services
Table 66. BASiC Semiconductor Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 67. BASiC Semiconductor Recent Developments/Updates
Table 68. SemiQ Basic Information, Manufacturing Base and Competitors
Table 69. SemiQ Major Business
Table 70. SemiQ Silicon Carbide Power Modules Product and Services
Table 71. SemiQ Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 72. SemiQ Recent Developments/Updates
Table 73. SanRex Basic Information, Manufacturing Base and Competitors
Table 74. SanRex Major Business
Table 75. SanRex Silicon Carbide Power Modules Product and Services
Table 76. SanRex Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 77. SanRex Recent Developments/Updates
Table 78. Bosch Basic Information, Manufacturing Base and Competitors
Table 79. Bosch Major Business
Table 80. Bosch Silicon Carbide Power Modules Product and Services
Table 81. Bosch Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 82. Bosch Recent Developments/Updates
Table 83. GE Aerospace Basic Information, Manufacturing Base and Competitors
Table 84. GE Aerospace Major Business
Table 85. GE Aerospace Silicon Carbide Power Modules Product and Services

Table 86. GE Aerospace Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 87. GE Aerospace Recent Developments/Updates

Table 88. Zhuzhou CRRC Times Electric Basic Information, Manufacturing Base and Competitors

Table 89. Zhuzhou CRRC Times Electric Major Business

Table 90. Zhuzhou CRRC Times Electric Silicon Carbide Power Modules Product and Services

Table 91. Zhuzhou CRRC Times Electric Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 92. Zhuzhou CRRC Times Electric Recent Developments/Updates

Table 93. StarPower Basic Information, Manufacturing Base and Competitors

Table 94. StarPower Major Business

Table 95. StarPower Silicon Carbide Power Modules Product and Services

Table 96. StarPower Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 97. StarPower Recent Developments/Updates

Table 98. Guangdong AccoPower Semiconductor Basic Information, Manufacturing Base and Competitors

Table 99. Guangdong AccoPower Semiconductor Major Business

Table 100. Guangdong AccoPower Semiconductor Silicon Carbide Power Modules Product and Services

Table 101. Guangdong AccoPower Semiconductor Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 102. Guangdong AccoPower Semiconductor Recent Developments/Updates

Table 103. Cissoid Basic Information, Manufacturing Base and Competitors

Table 104. Cissoid Major Business

Table 105. Cissoid Silicon Carbide Power Modules Product and Services

Table 106. Cissoid Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 107. Cissoid Recent Developments/Updates

Table 108. United Nova Technology Basic Information, Manufacturing Base and Competitors

Table 109. United Nova Technology Major Business

Table 110. United Nova Technology Silicon Carbide Power Modules Product and Services

Table 111. United Nova Technology Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 112. United Nova Technology Recent Developments/Updates

Table 113. Hebei Sinopack Electronic Technology Basic Information, Manufacturing Base and Competitors

Table 114. Hebei Sinopack Electronic Technology Major Business

Table 115. Hebei Sinopack Electronic Technology Silicon Carbide Power Modules Product and Services

Table 116. Hebei Sinopack Electronic Technology Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 117. Hebei Sinopack Electronic Technology Recent Developments/Updates

Table 118. InventChip Technology Basic Information, Manufacturing Base and Competitors

Table 119. InventChip Technology Major Business

Table 120. InventChip Technology Silicon Carbide Power Modules Product and Services

Table 121. InventChip Technology Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 122. InventChip Technology Recent Developments/Updates

Table 123. ANHI Semiconductor Basic Information, Manufacturing Base and Competitors

Table 124. ANHI Semiconductor Major Business

Table 125. ANHI Semiconductor Silicon Carbide Power Modules Product and Services

Table 126. ANHI Semiconductor Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 127. ANHI Semiconductor Recent Developments/Updates

Table 128. HAIMOSIC (SHANGHAI) Basic Information, Manufacturing Base and Competitors

Table 129. HAIMOSIC (SHANGHAI) Major Business

Table 130. HAIMOSIC (SHANGHAI) Silicon Carbide Power Modules Product and Services

Table 131. HAIMOSIC (SHANGHAI) Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 132. HAIMOSIC (SHANGHAI) Recent Developments/Updates

Table 133. Shenzhen AST Science Technology Basic Information, Manufacturing Base and Competitors
Table 134. Shenzhen AST Science Technology Major Business
Table 135. Shenzhen AST Science Technology Silicon Carbide Power Modules Product and Services
Table 136. Shenzhen AST Science Technology Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 137. Shenzhen AST Science Technology Recent Developments/Updates
Table 138. Hangzhou Silan Microelectronics Basic Information, Manufacturing Base and Competitors
Table 139. Hangzhou Silan Microelectronics Major Business
Table 140. Hangzhou Silan Microelectronics Silicon Carbide Power Modules Product and Services
Table 141. Hangzhou Silan Microelectronics Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 142. Hangzhou Silan Microelectronics Recent Developments/Updates
Table 143. Wuxi Leapers Semiconductor Basic Information, Manufacturing Base and Competitors
Table 144. Wuxi Leapers Semiconductor Major Business
Table 145. Wuxi Leapers Semiconductor Silicon Carbide Power Modules Product and Services
Table 146. Wuxi Leapers Semiconductor Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 147. Wuxi Leapers Semiconductor Recent Developments/Updates
Table 148. WeEn Semiconductors Basic Information, Manufacturing Base and Competitors
Table 149. WeEn Semiconductors Major Business
Table 150. WeEn Semiconductors Silicon Carbide Power Modules Product and Services
Table 151. WeEn Semiconductors Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 152. WeEn Semiconductors Recent Developments/Updates
Table 153. Denso Basic Information, Manufacturing Base and Competitors
Table 154. Denso Major Business
Table 155. Denso Silicon Carbide Power Modules Product and Services

Table 156. Denso Silicon Carbide Power Modules Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 157. Denso Recent Developments/Updates

Table 158. Global Silicon Carbide Power Modules Sales Quantity by Manufacturer (2020-2025) & (K Pcs)

Table 159. Global Silicon Carbide Power Modules Revenue by Manufacturer (2020-2025) & (USD Million)

Table 160. Global Silicon Carbide Power Modules Average Price by Manufacturer (2020-2025) & (US\$/Pcs)

Table 161. Market Position of Manufacturers in Silicon Carbide Power Modules, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 162. Head Office and Silicon Carbide Power Modules Production Site of Key Manufacturer

Table 163. Silicon Carbide Power Modules Market: Company Product Type Footprint

Table 164. Silicon Carbide Power Modules Market: Company Product Application Footprint

Table 165. Silicon Carbide Power Modules New Market Entrants and Barriers to Market Entry

Table 166. Silicon Carbide Power Modules Mergers, Acquisition, Agreements, and Collaborations

Table 167. Global Silicon Carbide Power Modules Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 168. Global Silicon Carbide Power Modules Sales Quantity by Region (2020-2025) & (K Pcs)

Table 169. Global Silicon Carbide Power Modules Sales Quantity by Region (2026-2031) & (K Pcs)

Table 170. Global Silicon Carbide Power Modules Consumption Value by Region (2020-2025) & (USD Million)

Table 171. Global Silicon Carbide Power Modules Consumption Value by Region (2026-2031) & (USD Million)

Table 172. Global Silicon Carbide Power Modules Average Price by Region (2020-2025) & (US\$/Pcs)

Table 173. Global Silicon Carbide Power Modules Average Price by Region (2026-2031) & (US\$/Pcs)

Table 174. Global Silicon Carbide Power Modules Sales Quantity by Type (2020-2025) & (K Pcs)

Table 175. Global Silicon Carbide Power Modules Sales Quantity by Type (2026-2031) & (K Pcs)

Table 176. Global Silicon Carbide Power Modules Consumption Value by Type

(2020-2025) & (USD Million)

Table 177. Global Silicon Carbide Power Modules Consumption Value by Type

(2026-2031) & (USD Million)

Table 178. Global Silicon Carbide Power Modules Average Price by Type (2020-2025)
& (US\$/Pcs)

Table 179. Global Silicon Carbide Power Modules Average Price by Type (2026-2031)
& (US\$/Pcs)

Table 180. Global Silicon Carbide Power Modules Sales Quantity by Application
(2020-2025) & (K Pcs)

Table 181. Global Silicon Carbide Power Modules Sales Quantity by Application
(2026-2031) & (K Pcs)

Table 182. Global Silicon Carbide Power Modules Consumption Value by Application
(2020-2025) & (USD Million)

Table 183. Global Silicon Carbide Power Modules Consumption Value by Application
(2026-2031) & (USD Million)

Table 184. Global Silicon Carbide Power Modules Average Price by Application
(2020-2025) & (US\$/Pcs)

Table 185. Global Silicon Carbide Power Modules Average Price by Application
(2026-2031) & (US\$/Pcs)

Table 186. North America Silicon Carbide Power Modules Sales Quantity by Type
(2020-2025) & (K Pcs)

Table 187. North America Silicon Carbide Power Modules Sales Quantity by Type
(2026-2031) & (K Pcs)

Table 188. North America Silicon Carbide Power Modules Sales Quantity by Application
(2020-2025) & (K Pcs)

Table 189. North America Silicon Carbide Power Modules Sales Quantity by Application
(2026-2031) & (K Pcs)

Table 190. North America Silicon Carbide Power Modules Sales Quantity by Country
(2020-2025) & (K Pcs)

Table 191. North America Silicon Carbide Power Modules Sales Quantity by Country
(2026-2031) & (K Pcs)

Table 192. North America Silicon Carbide Power Modules Consumption Value by
Country (2020-2025) & (USD Million)

Table 193. North America Silicon Carbide Power Modules Consumption Value by
Country (2026-2031) & (USD Million)

Table 194. Europe Silicon Carbide Power Modules Sales Quantity by Type (2020-2025)
& (K Pcs)

Table 195. Europe Silicon Carbide Power Modules Sales Quantity by Type (2026-2031)
& (K Pcs)

Table 196. Europe Silicon Carbide Power Modules Sales Quantity by Application (2020-2025) & (K Pcs)

Table 197. Europe Silicon Carbide Power Modules Sales Quantity by Application (2026-2031) & (K Pcs)

Table 198. Europe Silicon Carbide Power Modules Sales Quantity by Country (2020-2025) & (K Pcs)

Table 199. Europe Silicon Carbide Power Modules Sales Quantity by Country (2026-2031) & (K Pcs)

Table 200. Europe Silicon Carbide Power Modules Consumption Value by Country (2020-2025) & (USD Million)

Table 201. Europe Silicon Carbide Power Modules Consumption Value by Country (2026-2031) & (USD Million)

Table 202. Asia-Pacific Silicon Carbide Power Modules Sales Quantity by Type (2020-2025) & (K Pcs)

Table 203. Asia-Pacific Silicon Carbide Power Modules Sales Quantity by Type (2026-2031) & (K Pcs)

Table 204. Asia-Pacific Silicon Carbide Power Modules Sales Quantity by Application (2020-2025) & (K Pcs)

Table 205. Asia-Pacific Silicon Carbide Power Modules Sales Quantity by Application (2026-2031) & (K Pcs)

Table 206. Asia-Pacific Silicon Carbide Power Modules Sales Quantity by Region (2020-2025) & (K Pcs)

Table 207. Asia-Pacific Silicon Carbide Power Modules Sales Quantity by Region (2026-2031) & (K Pcs)

Table 208. Asia-Pacific Silicon Carbide Power Modules Consumption Value by Region (2020-2025) & (USD Million)

Table 209. Asia-Pacific Silicon Carbide Power Modules Consumption Value by Region (2026-2031) & (USD Million)

Table 210. South America Silicon Carbide Power Modules Sales Quantity by Type (2020-2025) & (K Pcs)

Table 211. South America Silicon Carbide Power Modules Sales Quantity by Type (2026-2031) & (K Pcs)

Table 212. South America Silicon Carbide Power Modules Sales Quantity by Application (2020-2025) & (K Pcs)

Table 213. South America Silicon Carbide Power Modules Sales Quantity by Application (2026-2031) & (K Pcs)

Table 214. South America Silicon Carbide Power Modules Sales Quantity by Country (2020-2025) & (K Pcs)

Table 215. South America Silicon Carbide Power Modules Sales Quantity by Country

(2026-2031) & (K Pcs)

Table 216. South America Silicon Carbide Power Modules Consumption Value by Country (2020-2025) & (USD Million)

Table 217. South America Silicon Carbide Power Modules Consumption Value by Country (2026-2031) & (USD Million)

Table 218. Middle East & Africa Silicon Carbide Power Modules Sales Quantity by Type (2020-2025) & (K Pcs)

Table 219. Middle East & Africa Silicon Carbide Power Modules Sales Quantity by Type (2026-2031) & (K Pcs)

Table 220. Middle East & Africa Silicon Carbide Power Modules Sales Quantity by Application (2020-2025) & (K Pcs)

Table 221. Middle East & Africa Silicon Carbide Power Modules Sales Quantity by Application (2026-2031) & (K Pcs)

Table 222. Middle East & Africa Silicon Carbide Power Modules Sales Quantity by Country (2020-2025) & (K Pcs)

Table 223. Middle East & Africa Silicon Carbide Power Modules Sales Quantity by Country (2026-2031) & (K Pcs)

Table 224. Middle East & Africa Silicon Carbide Power Modules Consumption Value by Country (2020-2025) & (USD Million)

Table 225. Middle East & Africa Silicon Carbide Power Modules Consumption Value by Country (2026-2031) & (USD Million)

Table 226. Silicon Carbide Power Modules Raw Material

Table 227. Key Manufacturers of Silicon Carbide Power Modules Raw Materials

Table 228. Silicon Carbide Power Modules Typical Distributors

Table 229. Silicon Carbide Power Modules Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Silicon Carbide Power Modules Picture

Figure 2. Global Silicon Carbide Power Modules Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Silicon Carbide Power Modules Revenue Market Share by Type in 2024

Figure 4. 1200V????? Examples

Figure 5. 700V/750V?900V????? Examples

Figure 6. 1700V/3300V????? Examples

Figure 7. Global Silicon Carbide Power Modules Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 8. Global Silicon Carbide Power Modules Revenue Market Share by Application in 2024

Figure 9. Main Inverter (Electric Traction) Examples

Figure 10. Industrial Drives Examples

Figure 11. UPS Examples

Figure 12. Trains & Traction Examples

Figure 13. PV & Energy Examples

Figure 14. Others Examples

Figure 15. Global Silicon Carbide Power Modules Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 16. Global Silicon Carbide Power Modules Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 17. Global Silicon Carbide Power Modules Sales Quantity (2020-2031) & (K Pcs)

Figure 18. Global Silicon Carbide Power Modules Price (2020-2031) & (US\$/Pcs)

Figure 19. Global Silicon Carbide Power Modules Sales Quantity Market Share by Manufacturer in 2024

Figure 20. Global Silicon Carbide Power Modules Revenue Market Share by Manufacturer in 2024

Figure 21. Producer Shipments of Silicon Carbide Power Modules by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 22. Top 3 Silicon Carbide Power Modules Manufacturer (Revenue) Market Share in 2024

Figure 23. Top 6 Silicon Carbide Power Modules Manufacturer (Revenue) Market Share in 2024

Figure 24. Global Silicon Carbide Power Modules Sales Quantity Market Share by

Region (2020-2031)

Figure 25. Global Silicon Carbide Power Modules Consumption Value Market Share by Region (2020-2031)

Figure 26. North America Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 27. Europe Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 28. Asia-Pacific Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 29. South America Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 30. Middle East & Africa Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 31. Global Silicon Carbide Power Modules Sales Quantity Market Share by Type (2020-2031)

Figure 32. Global Silicon Carbide Power Modules Consumption Value Market Share by Type (2020-2031)

Figure 33. Global Silicon Carbide Power Modules Average Price by Type (2020-2031) & (US\$/Pcs)

Figure 34. Global Silicon Carbide Power Modules Sales Quantity Market Share by Application (2020-2031)

Figure 35. Global Silicon Carbide Power Modules Revenue Market Share by Application (2020-2031)

Figure 36. Global Silicon Carbide Power Modules Average Price by Application (2020-2031) & (US\$/Pcs)

Figure 37. North America Silicon Carbide Power Modules Sales Quantity Market Share by Type (2020-2031)

Figure 38. North America Silicon Carbide Power Modules Sales Quantity Market Share by Application (2020-2031)

Figure 39. North America Silicon Carbide Power Modules Sales Quantity Market Share by Country (2020-2031)

Figure 40. North America Silicon Carbide Power Modules Consumption Value Market Share by Country (2020-2031)

Figure 41. United States Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 42. Canada Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 43. Mexico Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 44. Europe Silicon Carbide Power Modules Sales Quantity Market Share by Type (2020-2031)

Figure 45. Europe Silicon Carbide Power Modules Sales Quantity Market Share by Application (2020-2031)

Figure 46. Europe Silicon Carbide Power Modules Sales Quantity Market Share by Country (2020-2031)

Figure 47. Europe Silicon Carbide Power Modules Consumption Value Market Share by Country (2020-2031)

Figure 48. Germany Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 49. France Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 50. United Kingdom Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 51. Russia Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 52. Italy Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 53. Asia-Pacific Silicon Carbide Power Modules Sales Quantity Market Share by Type (2020-2031)

Figure 54. Asia-Pacific Silicon Carbide Power Modules Sales Quantity Market Share by Application (2020-2031)

Figure 55. Asia-Pacific Silicon Carbide Power Modules Sales Quantity Market Share by Region (2020-2031)

Figure 56. Asia-Pacific Silicon Carbide Power Modules Consumption Value Market Share by Region (2020-2031)

Figure 57. China Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 58. Japan Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 59. South Korea Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 60. India Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 61. Southeast Asia Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 62. Australia Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 63. South America Silicon Carbide Power Modules Sales Quantity Market Share

by Type (2020-2031)

Figure 64. South America Silicon Carbide Power Modules Sales Quantity Market Share by Application (2020-2031)

Figure 65. South America Silicon Carbide Power Modules Sales Quantity Market Share by Country (2020-2031)

Figure 66. South America Silicon Carbide Power Modules Consumption Value Market Share by Country (2020-2031)

Figure 67. Brazil Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 68. Argentina Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 69. Middle East & Africa Silicon Carbide Power Modules Sales Quantity Market Share by Type (2020-2031)

Figure 70. Middle East & Africa Silicon Carbide Power Modules Sales Quantity Market Share by Application (2020-2031)

Figure 71. Middle East & Africa Silicon Carbide Power Modules Sales Quantity Market Share by Country (2020-2031)

Figure 72. Middle East & Africa Silicon Carbide Power Modules Consumption Value Market Share by Country (2020-2031)

Figure 73. Turkey Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 74. Egypt Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 75. Saudi Arabia Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 76. South Africa Silicon Carbide Power Modules Consumption Value (2020-2031) & (USD Million)

Figure 77. Silicon Carbide Power Modules Market Drivers

Figure 78. Silicon Carbide Power Modules Market Restraints

Figure 79. Silicon Carbide Power Modules Market Trends

Figure 80. Porters Five Forces Analysis

Figure 81. Manufacturing Cost Structure Analysis of Silicon Carbide Power Modules in 2024

Figure 82. Manufacturing Process Analysis of Silicon Carbide Power Modules

Figure 83. Silicon Carbide Power Modules Industrial Chain

Figure 84. Sales Channel: Direct to End-User vs Distributors

Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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