

# Global Silicon CarbideSiC Power Devices Market Research Report 2022(Status and Outlook)

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## Abstracts

### Report Overview

A power device is a semiconductor, which is used as a switch or a rectifier in the power electronic system. SiC is a compound semiconductor comprised of silicon and carbon and has 10 times the dielectric breakdown field strength, bandgap, and thermal conductivity than silicon. The special characteristics of SiC power devices include high-temperature operation stability, high thermal conductivity, high-energy bandgap, and faster switching time. These characteristics of SiC power devices are encouraging original equipment manufacturers (OEMs) to adopt these devices over traditional Si power devices.

The UPS & PS application segment accounted for the largest silicon carbide power devices market share during 2017. The utilization of SiC power devices in UPS & PS applications will increase in the coming years and the segment will account for the major share of this market till 2023.

Bosson Research's latest report provides a deep insight into the global Silicon CarbideSiC Power Devices market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Silicon CarbideSiC Power Devices Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Silicon CarbideSiC Power Devices market in any manner. Global Silicon CarbideSiC Power Devices Market: Market Segmentation Analysis The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

#### Key Company

Infineon Technologies

Cree

Mitsubishi Electric

ON Semiconductor

ROHM Semiconductor

STMicroelectronics

Toshiba

#### Market Segmentation (by Type)

Diodes

Modules

Transistors

Other

#### Market Segmentation (by Application)

EV/HEVs

PV Inverters

UPS & PS

Other

#### Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### Key Benefits of This Market Research:

- Industry drivers, restraints, and opportunities covered in the study
- Neutral perspective on the market performance
- Recent industry trends and developments
- Competitive landscape & strategies of key players
- Potential & niche segments and regions exhibiting promising growth covered
- Historical, current, and projected market size, in terms of value
- In-depth analysis of the Silicon CarbideSiC Power Devices Market

Overview of the regional outlook of the Silicon CarbideSiC Power Devices Market:

### Key Reasons to Buy this Report:

- Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
- This enables you to anticipate market changes to remain ahead of your competitors
- You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
- The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly
- Provision of market value (USD Billion) data for each segment and sub-segment
- Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market
- Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region
- Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled
- Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players
- The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions
- Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis
- Provides insight into the market through Value Chain
- Market dynamics scenario, along with growth opportunities of the market in the years to come
- 6-month post-sales analyst support
- Customization of the Report

In case of any queries or customization requirements, please connect with our sales

team, who will ensure that your requirements are met.

#### Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Silicon CarbideSiC Power Devices Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development

potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

1.1 Market Definition and Statistical Scope of Silicon CarbideSiC Power Devices

1.2 Key Market Segments

1.2.1 Silicon CarbideSiC Power Devices Segment by Type

1.2.2 Silicon CarbideSiC Power Devices Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

### **2 SILICON CARBIDESIC POWER DEVICES MARKET OVERVIEW**

2.1 Global Market Overview

2.1.1 Global Silicon CarbideSiC Power Devices Market Size (M USD) Estimates and Forecasts (2018-2029)

2.1.2 Global Silicon CarbideSiC Power Devices Sales Estimates and Forecasts (2018-2029)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

### **3 SILICON CARBIDESIC POWER DEVICES MARKET COMPETITIVE LANDSCAPE**

3.1 Global Silicon CarbideSiC Power Devices Sales by Manufacturers (2018-2023)

3.2 Global Silicon CarbideSiC Power Devices Revenue Market Share by Manufacturers (2018-2023)

3.3 Silicon CarbideSiC Power Devices Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global Silicon CarbideSiC Power Devices Average Price by Manufacturers (2018-2023)

3.5 Manufacturers Silicon CarbideSiC Power Devices Sales Sites, Area Served, Product Type

3.6 Silicon CarbideSiC Power Devices Market Competitive Situation and Trends

3.6.1 Silicon CarbideSiC Power Devices Market Concentration Rate

3.6.2 Global 5 and 10 Largest Silicon CarbideSiC Power Devices Players Market

Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

## **4 SILICON CARBIDESIC POWER DEVICES INDUSTRY CHAIN ANALYSIS**

4.1 Silicon CarbideSiC Power Devices Industry Chain Analysis

4.2 Market Overview and Market Concentration Analysis of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF SILICON CARBIDESIC POWER DEVICES MARKET**

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

## **6 SILICON CARBIDESIC POWER DEVICES MARKET SEGMENTATION BY TYPE**

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Silicon CarbideSiC Power Devices Sales Market Share by Type (2018-2023)

6.3 Global Silicon CarbideSiC Power Devices Market Size Market Share by Type (2018-2023)

6.4 Global Silicon CarbideSiC Power Devices Price by Type (2018-2023)

## **7 SILICON CARBIDESIC POWER DEVICES MARKET SEGMENTATION BY APPLICATION**

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Silicon CarbideSiC Power Devices Market Sales by Application (2018-2023)

7.3 Global Silicon CarbideSiC Power Devices Market Size (M USD) by Application (2018-2023)

## 7.4 Global Silicon CarbideSiC Power Devices Sales Growth Rate by Application (2018-2023)

# **8 SILICON CARBIDESIC POWER DEVICES MARKET SEGMENTATION BY REGION**

## 8.1 Global Silicon CarbideSiC Power Devices Sales by Region

### 8.1.1 Global Silicon CarbideSiC Power Devices Sales by Region

### 8.1.2 Global Silicon CarbideSiC Power Devices Sales Market Share by Region

## 8.2 North America

### 8.2.1 North America Silicon CarbideSiC Power Devices Sales by Country

#### 8.2.2 U.S.

#### 8.2.3 Canada

#### 8.2.4 Mexico

## 8.3 Europe

### 8.3.1 Europe Silicon CarbideSiC Power Devices Sales by Country

#### 8.3.2 Germany

#### 8.3.3 France

#### 8.3.4 U.K.

#### 8.3.5 Italy

#### 8.3.6 Russia

## 8.4 Asia Pacific

### 8.4.1 Asia Pacific Silicon CarbideSiC Power Devices Sales by Region

#### 8.4.2 China

#### 8.4.3 Japan

#### 8.4.4 South Korea

#### 8.4.5 India

#### 8.4.6 Southeast Asia

## 8.5 South America

### 8.5.1 South America Silicon CarbideSiC Power Devices Sales by Country

#### 8.5.2 Brazil

#### 8.5.3 Argentina

#### 8.5.4 Columbia

## 8.6 Middle East and Africa

### 8.6.1 Middle East and Africa Silicon CarbideSiC Power Devices Sales by Region

#### 8.6.2 Saudi Arabia

#### 8.6.3 UAE

#### 8.6.4 Egypt

#### 8.6.5 Nigeria

#### 8.6.6 South Africa



## 9 KEY COMPANIES PROFILE

### 9.1 Infineon Technologies

9.1.1 Infineon Technologies Silicon CarbideSiC Power Devices Basic Information

9.1.2 Infineon Technologies Silicon CarbideSiC Power Devices Product Overview

9.1.3 Infineon Technologies Silicon CarbideSiC Power Devices Product Market

Performance

9.1.4 Infineon Technologies Business Overview

9.1.5 Infineon Technologies Silicon CarbideSiC Power Devices SWOT Analysis

9.1.6 Infineon Technologies Recent Developments

### 9.2 Cree

9.2.1 Cree Silicon CarbideSiC Power Devices Basic Information

9.2.2 Cree Silicon CarbideSiC Power Devices Product Overview

9.2.3 Cree Silicon CarbideSiC Power Devices Product Market Performance

9.2.4 Cree Business Overview

9.2.5 Cree Silicon CarbideSiC Power Devices SWOT Analysis

9.2.6 Cree Recent Developments

### 9.3 Mitsubishi Electric

9.3.1 Mitsubishi Electric Silicon CarbideSiC Power Devices Basic Information

9.3.2 Mitsubishi Electric Silicon CarbideSiC Power Devices Product Overview

9.3.3 Mitsubishi Electric Silicon CarbideSiC Power Devices Product Market

Performance

9.3.4 Mitsubishi Electric Business Overview

9.3.5 Mitsubishi Electric Silicon CarbideSiC Power Devices SWOT Analysis

9.3.6 Mitsubishi Electric Recent Developments

### 9.4 ON Semiconductor

9.4.1 ON Semiconductor Silicon CarbideSiC Power Devices Basic Information

9.4.2 ON Semiconductor Silicon CarbideSiC Power Devices Product Overview

9.4.3 ON Semiconductor Silicon CarbideSiC Power Devices Product Market

Performance

9.4.4 ON Semiconductor Business Overview

9.4.5 ON Semiconductor Silicon CarbideSiC Power Devices SWOT Analysis

9.4.6 ON Semiconductor Recent Developments

### 9.5 ROHM Semiconductor

9.5.1 ROHM Semiconductor Silicon CarbideSiC Power Devices Basic Information

9.5.2 ROHM Semiconductor Silicon CarbideSiC Power Devices Product Overview

9.5.3 ROHM Semiconductor Silicon CarbideSiC Power Devices Product Market

Performance

- 9.5.4 ROHM Semiconductor Business Overview
- 9.5.5 ROHM Semiconductor Silicon CarbideSiC Power Devices SWOT Analysis
- 9.5.6 ROHM Semiconductor Recent Developments

#### 9.6 STMicroelectronics

- 9.6.1 STMicroelectronics Silicon CarbideSiC Power Devices Basic Information
- 9.6.2 STMicroelectronics Silicon CarbideSiC Power Devices Product Overview
- 9.6.3 STMicroelectronics Silicon CarbideSiC Power Devices Product Market

#### Performance

- 9.6.4 STMicroelectronics Business Overview
- 9.6.5 STMicroelectronics Recent Developments

#### 9.7 Toshiba

- 9.7.1 Toshiba Silicon CarbideSiC Power Devices Basic Information
- 9.7.2 Toshiba Silicon CarbideSiC Power Devices Product Overview
- 9.7.3 Toshiba Silicon CarbideSiC Power Devices Product Market Performance
- 9.7.4 Toshiba Business Overview
- 9.7.5 Toshiba Recent Developments

## **10 SILICON CARBIDESIC POWER DEVICES MARKET FORECAST BY REGION**

- 10.1 Global Silicon CarbideSiC Power Devices Market Size Forecast
- 10.2 Global Silicon CarbideSiC Power Devices Market Forecast by Region
  - 10.2.1 North America Market Size Forecast by Country
  - 10.2.2 Europe Silicon CarbideSiC Power Devices Market Size Forecast by Country
  - 10.2.3 Asia Pacific Silicon CarbideSiC Power Devices Market Size Forecast by Region
  - 10.2.4 South America Silicon CarbideSiC Power Devices Market Size Forecast by Country
  - 10.2.5 Middle East and Africa Forecasted Consumption of Silicon CarbideSiC Power Devices by Country

## **11 FORECAST MARKET BY TYPE AND BY APPLICATION (2023-2029)**

- 11.1 Global Silicon CarbideSiC Power Devices Market Forecast by Type (2023-2029)
  - 11.1.1 Global Forecasted Sales of Silicon CarbideSiC Power Devices by Type (2023-2029)
  - 11.1.2 Global Silicon CarbideSiC Power Devices Market Size Forecast by Type (2023-2029)
  - 11.1.3 Global Forecasted Price of Silicon CarbideSiC Power Devices by Type (2023-2029)
- 11.2 Global Silicon CarbideSiC Power Devices Market Forecast by Application

(2023-2029)

11.2.1 Global Silicon CarbideSiC Power Devices Sales (K Units) Forecast by Application

11.2.2 Global Silicon CarbideSiC Power Devices Market Size (M USD) Forecast by Application (2023-2029)

## **12 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Silicon CarbideSiC Power Devices Market Size (M USD) Comparison by Region (M USD)

Table 5. Global Silicon CarbideSiC Power Devices Sales (K Units) by Manufacturers (2018-2023)

Table 6. Global Silicon CarbideSiC Power Devices Sales Market Share by Manufacturers (2018-2023)

Table 7. Global Silicon CarbideSiC Power Devices Revenue (M USD) by Manufacturers (2018-2023)

Table 8. Global Silicon CarbideSiC Power Devices Revenue Share by Manufacturers (2018-2023)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Silicon CarbideSiC Power Devices as of 2021)

Table 10. Global Market Silicon CarbideSiC Power Devices Average Price (USD/Unit) of Key Manufacturers (2018-2023)

Table 11. Manufacturers Silicon CarbideSiC Power Devices Sales Sites and Area Served

Table 12. Manufacturers Silicon CarbideSiC Power Devices Product Type

Table 13. Global Silicon CarbideSiC Power Devices Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of Silicon CarbideSiC Power Devices

Table 16. Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Silicon CarbideSiC Power Devices Market Challenges

Table 22. Market Restraints

Table 23. Global Silicon CarbideSiC Power Devices Sales by Type (K Units)

Table 24. Global Silicon CarbideSiC Power Devices Market Size by Type (M USD)

Table 25. Global Silicon CarbideSiC Power Devices Sales (K Units) by Type (2018-2023)

- Table 26. Global Silicon CarbideSiC Power Devices Sales Market Share by Type (2018-2023)
- Table 27. Global Silicon CarbideSiC Power Devices Market Size (M USD) by Type (2018-2023)
- Table 28. Global Silicon CarbideSiC Power Devices Market Size Share by Type (2018-2023)
- Table 29. Global Silicon CarbideSiC Power Devices Price (USD/Unit) by Type (2018-2023)
- Table 30. Global Silicon CarbideSiC Power Devices Sales (K Units) by Application
- Table 31. Global Silicon CarbideSiC Power Devices Market Size by Application
- Table 32. Global Silicon CarbideSiC Power Devices Sales by Application (2018-2023) & (K Units)
- Table 33. Global Silicon CarbideSiC Power Devices Sales Market Share by Application (2018-2023)
- Table 34. Global Silicon CarbideSiC Power Devices Sales by Application (2018-2023) & (M USD)
- Table 35. Global Silicon CarbideSiC Power Devices Market Share by Application (2018-2023)
- Table 36. Global Silicon CarbideSiC Power Devices Sales Growth Rate by Application (2018-2023)
- Table 37. Global Silicon CarbideSiC Power Devices Sales by Region (2018-2023) & (K Units)
- Table 38. Global Silicon CarbideSiC Power Devices Sales Market Share by Region (2018-2023)
- Table 39. North America Silicon CarbideSiC Power Devices Sales by Country (2018-2023) & (K Units)
- Table 40. Europe Silicon CarbideSiC Power Devices Sales by Country (2018-2023) & (K Units)
- Table 41. Asia Pacific Silicon CarbideSiC Power Devices Sales by Region (2018-2023) & (K Units)
- Table 42. South America Silicon CarbideSiC Power Devices Sales by Country (2018-2023) & (K Units)
- Table 43. Middle East and Africa Silicon CarbideSiC Power Devices Sales by Region (2018-2023) & (K Units)
- Table 44. Infineon Technologies Silicon CarbideSiC Power Devices Basic Information
- Table 45. Infineon Technologies Silicon CarbideSiC Power Devices Product Overview
- Table 46. Infineon Technologies Silicon CarbideSiC Power Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 47. Infineon Technologies Business Overview

- Table 48. Infineon Technologies Silicon CarbideSiC Power Devices SWOT Analysis
- Table 49. Infineon Technologies Recent Developments
- Table 50. Cree Silicon CarbideSiC Power Devices Basic Information
- Table 51. Cree Silicon CarbideSiC Power Devices Product Overview
- Table 52. Cree Silicon CarbideSiC Power Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 53. Cree Business Overview
- Table 54. Cree Silicon CarbideSiC Power Devices SWOT Analysis
- Table 55. Cree Recent Developments
- Table 56. Mitsubishi Electric Silicon CarbideSiC Power Devices Basic Information
- Table 57. Mitsubishi Electric Silicon CarbideSiC Power Devices Product Overview
- Table 58. Mitsubishi Electric Silicon CarbideSiC Power Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 59. Mitsubishi Electric Business Overview
- Table 60. Mitsubishi Electric Silicon CarbideSiC Power Devices SWOT Analysis
- Table 61. Mitsubishi Electric Recent Developments
- Table 62. ON Semiconductor Silicon CarbideSiC Power Devices Basic Information
- Table 63. ON Semiconductor Silicon CarbideSiC Power Devices Product Overview
- Table 64. ON Semiconductor Silicon CarbideSiC Power Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 65. ON Semiconductor Business Overview
- Table 66. ON Semiconductor Silicon CarbideSiC Power Devices SWOT Analysis
- Table 67. ON Semiconductor Recent Developments
- Table 68. ROHM Semiconductor Silicon CarbideSiC Power Devices Basic Information
- Table 69. ROHM Semiconductor Silicon CarbideSiC Power Devices Product Overview
- Table 70. ROHM Semiconductor Silicon CarbideSiC Power Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 71. ROHM Semiconductor Business Overview
- Table 72. ROHM Semiconductor Silicon CarbideSiC Power Devices SWOT Analysis
- Table 73. ROHM Semiconductor Recent Developments
- Table 74. STMicroelectronics Silicon CarbideSiC Power Devices Basic Information
- Table 75. STMicroelectronics Silicon CarbideSiC Power Devices Product Overview
- Table 76. STMicroelectronics Silicon CarbideSiC Power Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 77. STMicroelectronics Business Overview
- Table 78. STMicroelectronics Recent Developments
- Table 79. Toshiba Silicon CarbideSiC Power Devices Basic Information
- Table 80. Toshiba Silicon CarbideSiC Power Devices Product Overview
- Table 81. Toshiba Silicon CarbideSiC Power Devices Sales (K Units), Revenue (M

USD), Price (USD/Unit) and Gross Margin (2018-2023)

Table 82. Toshiba Business Overview

Table 83. Toshiba Recent Developments

Table 84. Global Silicon CarbideSiC Power Devices Sales Forecast by Region (K Units)

Table 85. Global Silicon CarbideSiC Power Devices Market Size Forecast by Region (M USD)

Table 86. North America Silicon CarbideSiC Power Devices Sales Forecast by Country (2023-2029) & (K Units)

Table 87. North America Silicon CarbideSiC Power Devices Market Size Forecast by Country (2023-2029) & (M USD)

Table 88. Europe Silicon CarbideSiC Power Devices Sales Forecast by Country (2023-2029) & (K Units)

Table 89. Europe Silicon CarbideSiC Power Devices Market Size Forecast by Country (2023-2029) & (M USD)

Table 90. Asia Pacific Silicon CarbideSiC Power Devices Sales Forecast by Region (2023-2029) & (K Units)

Table 91. Asia Pacific Silicon CarbideSiC Power Devices Market Size Forecast by Region (2023-2029) & (M USD)

Table 92. South America Silicon CarbideSiC Power Devices Sales Forecast by Country (2023-2029) & (K Units)

Table 93. South America Silicon CarbideSiC Power Devices Market Size Forecast by Country (2023-2029) & (M USD)

Table 94. Middle East and Africa Silicon CarbideSiC Power Devices Consumption Forecast by Country (2023-2029) & (Units)

Table 95. Middle East and Africa Silicon CarbideSiC Power Devices Market Size Forecast by Country (2023-2029) & (M USD)

Table 96. Global Silicon CarbideSiC Power Devices Sales Forecast by Type (2023-2029) & (K Units)

Table 97. Global Silicon CarbideSiC Power Devices Market Size Forecast by Type (2023-2029) & (M USD)

Table 98. Global Silicon CarbideSiC Power Devices Price Forecast by Type (2023-2029) & (USD/Unit)

Table 99. Global Silicon CarbideSiC Power Devices Sales (K Units) Forecast by Application (2023-2029)

Table 100. Global Silicon CarbideSiC Power Devices Market Size Forecast by Application (2023-2029) & (M USD)

## List Of Figures

### LIST OF FIGURES

Figure 1. Product Picture of Silicon CarbideSiC Power Devices

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Silicon CarbideSiC Power Devices Market Size (M USD), 2018-2029

Figure 5. Global Silicon CarbideSiC Power Devices Market Size (M USD) (2018-2029)

Figure 6. Global Silicon CarbideSiC Power Devices Sales (K Units) & (2018-2029)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Silicon CarbideSiC Power Devices Market Size (M USD) by Country (M USD)

Figure 11. Silicon CarbideSiC Power Devices Sales Share by Manufacturers in 2022

Figure 12. Global Silicon CarbideSiC Power Devices Revenue Share by Manufacturers in 2022

Figure 13. Silicon CarbideSiC Power Devices Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2017 VS 2021

Figure 14. Global Market Silicon CarbideSiC Power Devices Average Price (USD/Unit) of Key Manufacturers in 2022

Figure 15. The Global 5 and 10 Largest Players: Market Share by Silicon CarbideSiC Power Devices Revenue in 2021

Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 17. Global Silicon CarbideSiC Power Devices Market Share by Type

Figure 18. Sales Market Share of Silicon CarbideSiC Power Devices by Type (2018-2023)

Figure 19. Sales Market Share of Silicon CarbideSiC Power Devices by Type in 2021

Figure 20. Market Size Share of Silicon CarbideSiC Power Devices by Type (2018-2023)

Figure 21. Market Size Market Share of Silicon CarbideSiC Power Devices by Type in 2022

Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 23. Global Silicon CarbideSiC Power Devices Market Share by Application

Figure 24. Global Silicon CarbideSiC Power Devices Sales Market Share by Application (2018-2023)

Figure 25. Global Silicon CarbideSiC Power Devices Sales Market Share by Application in 2021



Figure 26. Global Silicon CarbideSiC Power Devices Market Share by Application (2018-2023)

Figure 27. Global Silicon CarbideSiC Power Devices Market Share by Application in 2022

Figure 28. Global Silicon CarbideSiC Power Devices Sales Growth Rate by Application (2018-2023)

Figure 29. Global Silicon CarbideSiC Power Devices Sales Market Share by Region (2018-2023)

Figure 30. North America Silicon CarbideSiC Power Devices Sales and Growth Rate (2018-2023) & (K Units)

Figure 31. North America Silicon CarbideSiC Power Devices Sales Market Share by Country in 2022

Figure 32. U.S. Silicon CarbideSiC Power Devices Sales and Growth Rate (2018-2023) & (K Units)

Figure 33. Canada Silicon CarbideSiC Power Devices Sales (K Units) and Growth Rate (2018-2023)

Figure 34. Mexico Silicon CarbideSiC Power Devices Sales (Units) and Growth Rate (2018-2023)

Figure 35. Europe Silicon CarbideSiC Power Devices Sales and Growth Rate (2018-2023) & (K Units)

Figure 36. Europe Silicon CarbideSiC Power Devices Sales Market Share by Country in 2022

Figure 37. Germany Silicon CarbideSiC Power Devices Sales and Growth Rate (2018-2023) & (K Units)

Figure 38. France Silicon CarbideSiC Power Devices Sales and Growth Rate (2018-2023) & (K Units)

Figure 39. U.K. Silicon CarbideSiC Power Devices Sales and Growth Rate (2018-2023) & (K Units)

Figure 40. Italy Silicon CarbideSiC Power Devices Sales and Growth Rate (2018-2023) & (K Units)

Figure 41. Russia Silicon CarbideSiC Power Devices Sales and Growth Rate (2018-2023) & (K Units)

Figure 42. Asia Pacific Silicon CarbideSiC Power Devices Sales and Growth Rate (K Units)

Figure 43. Asia Pacific Silicon CarbideSiC Power Devices Sales Market Share by Region in 2022

Figure 44. China Silicon CarbideSiC Power Devices Sales and Growth Rate (2018-2023) & (K Units)

Figure 45. Japan Silicon CarbideSiC Power Devices Sales and Growth Rate

(2018-2023) & (K Units)

Figure 46. South Korea Silicon CarbideSiC Power Devices Sales and Growth Rate

(2018-2023) & (K Units)

Figure 47. India Silicon CarbideSiC Power Devices Sales and Growth Rate (2018-2023)

& (K Units)

Figure 48. Southeast Asia Silicon CarbideSiC Power Devices Sales and Growth Rate

(2018-2023) & (K Units)

Figure 49. South America Silicon CarbideSiC Power Devices Sales and Growth Rate (K

Units)

Figure 50. South America Silicon CarbideSiC Power Devices Sales Market Share by

Country in 2022

Figure 51. Brazil Silicon CarbideSiC Power Devices Sales and Growth Rate

(2018-2023) & (K Units)

Figure 52. Argentina Silicon CarbideSiC Power Devices Sales and Growth Rate

(2018-2023) & (K Units)

Figure 53. Columbia Silicon CarbideSiC Power Devices Sales and Growth Rate

(2018-2023) & (K Units)

Figure 54. Middle East and Africa Silicon CarbideSiC Power Devices Sales and Growth

Rate (K Units)

Figure 55. Middle East and Africa Silicon CarbideSiC Power Devices Sales Market

Share by Region in 2022

Figure 56. Saudi Arabia Silicon CarbideSiC Power Devices Sales and Growth Rate

(2018-2023) & (K Units)

Figure 57. UAE Silicon CarbideSiC Power Devices Sales and Growth Rate (2018-2023)

& (K Units)

Figure 58. Egypt Silicon CarbideSiC Power Devices Sales and Growth Rate

(2018-2023) & (K Units)

Figure 59. Nigeria Silicon CarbideSiC Power Devices Sales and Growth Rate

(2018-2023) & (K Units)

Figure 60. South Africa Silicon CarbideSiC Power Devices Sales and Growth Rate

(2018-2023) & (K Units)

Figure 61. Global Silicon CarbideSiC Power Devices Sales Forecast by Volume

(2018-2029) & (K Units)

Figure 62. Global Silicon CarbideSiC Power Devices Market Size Forecast by Value

(2018-2029) & (M USD)

Figure 63. Global Silicon CarbideSiC Power Devices Sales Market Share Forecast by

Type (2023-2029)

Figure 64. Global Silicon CarbideSiC Power Devices Market Share Forecast by Type

(2023-2029)

Figure 65. Global Silicon CarbideSiC Power Devices Sales Forecast by Application (2023-2029)

Figure 66. Global Silicon CarbideSiC Power Devices Market Share Forecast by Application (2023-2029)

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