

# Global Power Discretes Devices & Modules Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Power Discretes Devices & Modules market size was valued at USD 34650 million in 2023 and is forecast to a readjusted size of USD 52860 million by 2030 with a CAGR of 6.2% during review period.

A discrete power device (or discrete component) is an electronic component with just one circuit element, either passive (resistor, capacitor, inductor, diode) or active (transistor or vacuum tube), other than an integrated circuit. It is an electronic component widely used in automotive & transportation, industrial, consumer, communication and among others. In this report, the transistor, diodes and thyristors are counted. This report is focus on the power discrete semiconductor devices and modules.

The global market for semiconductor was estimated at US\$ 579 billion in the year 2022, is projected to US\$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the

emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They drive the growing demand for discrete power devices.

The Global Info Research report includes an overview of the development of the Power Discreted Devices & Modules industry chain, the market status of Automotive & Transportation (MOSFETs, Rectifiers), Industrial (MOSFETs, Rectifiers), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Power Discreted Devices & Modules.

Regionally, the report analyzes the Power Discreted Devices & Modules markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Power Discreted Devices & Modules market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Power Discreted Devices & Modules market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Power Discreted Devices & Modules industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., MOSFETs, Rectifiers).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Power Discreted Devices & Modules market.

**Regional Analysis:** The report involves examining the Power Discreted Devices & Modules market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer

behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Power Discretes Devices & Modules market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Power Discretes Devices & Modules:

**Company Analysis:** Report covers individual Power Discretes Devices & Modules manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Power Discretes Devices & Modules. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive & Transportation, Industrial).

**Technology Analysis:** Report covers specific technologies relevant to Power Discretes Devices & Modules. It assesses the current state, advancements, and potential future developments in Power Discretes Devices & Modules areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Power Discretes Devices & Modules market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Power Discretes Devices & Modules market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

## Market segment by Type

MOSFETs

Rectifiers

Discrete IGBTs

Bipolar Power Transistors

Thyristors

Standard IGBT Modules

Intelligent Power Modules

Thyristor Modules

Power Integrated Modules

Others

## Market segment by Application

Automotive & Transportation

Industrial

Consumer

Communication

Others

## Major players covered

Infineon

Onsemi

ST Microelectronics

Mitsubishi Electric (Vincotech)

Nexperia

Vishay Intertechnology

Toshiba

Fuji Electric

Rohm

Renesas Electronics

Diodes Incorporated

Littelfuse (IXYS)

Alpha & Omega Semiconductor

SEMIKRON

Hitachi Power Semiconductor Device

Microchip

Sanken Electric

Semtech

MagnaChip

Danfoss

Bosch

Texas Instruments

KEC Corporation

Cree (Wolfspeed)

PANJIT Group

Unisonic Technologies (UTC)

Niko Semiconductor

Hangzhou Silan Microelectronics

Yangzhou Yangjie Electronic Technology

China Resources Microelectronics Limited

Jilin Sino-Microelectronics

StarPower

NCEPOWER

Hangzhou Li-On Microelectronics Corporation

Jiangsu Jiejie Microelectronics

OmniVision Technologies

Suzhou Good-Ark Electronics

Zhuzhou CRRC Times Electric

WeEn Semiconductors

Changzhou Galaxy Century Microelectronics

MacMic Science & Technolog

BYD

Hubei TECH Semiconductors

JSC Mikron

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 Power Discrettes Devices & Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Power Discrettes Devices & Modules, with price, sales, revenue and global market share of Power Discrettes Devices & Modules from 2019 to 2024.

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

Chapter 4, the Power Discrettes Devices & Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions,

from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Power Discrettes Devices & Modules market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Power Discrettes Devices & Modules.

Chapter 14 and 15, to describe Power Discrettes Devices & Modules sales channel, distributors, customers, research findings and conclusion.



## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope of Power Discretes Devices & Modules

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Power Discretes Devices & Modules Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 MOSFETs

1.3.3 Rectifiers

1.3.4 Discrete IGBTs

1.3.5 Bipolar Power Transistors

1.3.6 Thyristors

1.3.7 Standard IGBT Modules

1.3.8 Intelligent Power Modules

1.3.9 Thyristor Modules

1.3.10 Power Integrated Modules

1.3.11 Others

1.4 Market Analysis by Application

1.4.1 Overview: Global Power Discretes Devices & Modules Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Automotive & Transportation

1.4.3 Industrial

1.4.4 Consumer

1.4.5 Communication

1.4.6 Others

1.5 Global Power Discretes Devices & Modules Market Size & Forecast

1.5.1 Global Power Discretes Devices & Modules Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Power Discretes Devices & Modules Sales Quantity (2019-2030)

1.5.3 Global Power Discretes Devices & Modules Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

2.1 Infineon

2.1.1 Infineon Details

2.1.2 Infineon Major Business

2.1.3 Infineon Power Discretes Devices & Modules Product and Services

2.1.4 Infineon Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Infineon Recent Developments/Updates

2.2 Onsemi

2.2.1 Onsemi Details

2.2.2 Onsemi Major Business

2.2.3 Onsemi Power Discrettes Devices & Modules Product and Services

2.2.4 Onsemi Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Onsemi Recent Developments/Updates

2.3 ST Microelectronics

2.3.1 ST Microelectronics Details

2.3.2 ST Microelectronics Major Business

2.3.3 ST Microelectronics Power Discrettes Devices & Modules Product and Services

2.3.4 ST Microelectronics Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 ST Microelectronics Recent Developments/Updates

2.4 Mitsubishi Electric (Vincotech)

2.4.1 Mitsubishi Electric (Vincotech) Details

2.4.2 Mitsubishi Electric (Vincotech) Major Business

2.4.3 Mitsubishi Electric (Vincotech) Power Discrettes Devices & Modules Product and Services

2.4.4 Mitsubishi Electric (Vincotech) Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Mitsubishi Electric (Vincotech) Recent Developments/Updates

2.5 Nexperia

2.5.1 Nexperia Details

2.5.2 Nexperia Major Business

2.5.3 Nexperia Power Discrettes Devices & Modules Product and Services

2.5.4 Nexperia Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 Nexperia Recent Developments/Updates

2.6 Vishay Intertechnology

2.6.1 Vishay Intertechnology Details

2.6.2 Vishay Intertechnology Major Business

2.6.3 Vishay Intertechnology Power Discrettes Devices & Modules Product and Services

2.6.4 Vishay Intertechnology Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

- 2.6.5 Vishay Intertechnology Recent Developments/Updates
- 2.7 Toshiba
  - 2.7.1 Toshiba Details
  - 2.7.2 Toshiba Major Business
  - 2.7.3 Toshiba Power Discrettes Devices & Modules Product and Services
  - 2.7.4 Toshiba Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.7.5 Toshiba Recent Developments/Updates
- 2.8 Fuji Electric
  - 2.8.1 Fuji Electric Details
  - 2.8.2 Fuji Electric Major Business
  - 2.8.3 Fuji Electric Power Discrettes Devices & Modules Product and Services
  - 2.8.4 Fuji Electric Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.8.5 Fuji Electric Recent Developments/Updates
- 2.9 Rohm
  - 2.9.1 Rohm Details
  - 2.9.2 Rohm Major Business
  - 2.9.3 Rohm Power Discrettes Devices & Modules Product and Services
  - 2.9.4 Rohm Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.9.5 Rohm Recent Developments/Updates
- 2.10 Renesas Electronics
  - 2.10.1 Renesas Electronics Details
  - 2.10.2 Renesas Electronics Major Business
  - 2.10.3 Renesas Electronics Power Discrettes Devices & Modules Product and Services
  - 2.10.4 Renesas Electronics Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.10.5 Renesas Electronics Recent Developments/Updates
- 2.11 Diodes Incorporated
  - 2.11.1 Diodes Incorporated Details
  - 2.11.2 Diodes Incorporated Major Business
  - 2.11.3 Diodes Incorporated Power Discrettes Devices & Modules Product and Services
  - 2.11.4 Diodes Incorporated Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.11.5 Diodes Incorporated Recent Developments/Updates
- 2.12 Littelfuse (IXYS)
  - 2.12.1 Littelfuse (IXYS) Details
  - 2.12.2 Littelfuse (IXYS) Major Business

- 2.12.3 Littelfuse (IXYS) Power Discretes Devices & Modules Product and Services
- 2.12.4 Littelfuse (IXYS) Power Discretes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.12.5 Littelfuse (IXYS) Recent Developments/Updates
- 2.13 Alpha & Omega Semiconductor
  - 2.13.1 Alpha & Omega Semiconductor Details
  - 2.13.2 Alpha & Omega Semiconductor Major Business
  - 2.13.3 Alpha & Omega Semiconductor Power Discretes Devices & Modules Product and Services
  - 2.13.4 Alpha & Omega Semiconductor Power Discretes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.13.5 Alpha & Omega Semiconductor Recent Developments/Updates
- 2.14 SEMIKRON
  - 2.14.1 SEMIKRON Details
  - 2.14.2 SEMIKRON Major Business
  - 2.14.3 SEMIKRON Power Discretes Devices & Modules Product and Services
  - 2.14.4 SEMIKRON Power Discretes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.14.5 SEMIKRON Recent Developments/Updates
- 2.15 Hitachi Power Semiconductor Device
  - 2.15.1 Hitachi Power Semiconductor Device Details
  - 2.15.2 Hitachi Power Semiconductor Device Major Business
  - 2.15.3 Hitachi Power Semiconductor Device Power Discretes Devices & Modules Product and Services
  - 2.15.4 Hitachi Power Semiconductor Device Power Discretes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.15.5 Hitachi Power Semiconductor Device Recent Developments/Updates
- 2.16 Microchip
  - 2.16.1 Microchip Details
  - 2.16.2 Microchip Major Business
  - 2.16.3 Microchip Power Discretes Devices & Modules Product and Services
  - 2.16.4 Microchip Power Discretes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.16.5 Microchip Recent Developments/Updates
- 2.17 Sanken Electric
  - 2.17.1 Sanken Electric Details
  - 2.17.2 Sanken Electric Major Business
  - 2.17.3 Sanken Electric Power Discretes Devices & Modules Product and Services
  - 2.17.4 Sanken Electric Power Discretes Devices & Modules Sales Quantity, Average

## Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.17.5 Sanken Electric Recent Developments/Updates

## 2.18 Semtech

### 2.18.1 Semtech Details

### 2.18.2 Semtech Major Business

### 2.18.3 Semtech Power Discretet Devices & Modules Product and Services

### 2.18.4 Semtech Power Discretet Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.18.5 Semtech Recent Developments/Updates

## 2.19 MagnaChip

### 2.19.1 MagnaChip Details

### 2.19.2 MagnaChip Major Business

### 2.19.3 MagnaChip Power Discretet Devices & Modules Product and Services

### 2.19.4 MagnaChip Power Discretet Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.19.5 MagnaChip Recent Developments/Updates

## 2.20 Danfoss

### 2.20.1 Danfoss Details

### 2.20.2 Danfoss Major Business

### 2.20.3 Danfoss Power Discretet Devices & Modules Product and Services

### 2.20.4 Danfoss Power Discretet Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.20.5 Danfoss Recent Developments/Updates

## 2.21 Bosch

### 2.21.1 Bosch Details

### 2.21.2 Bosch Major Business

### 2.21.3 Bosch Power Discretet Devices & Modules Product and Services

### 2.21.4 Bosch Power Discretet Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.21.5 Bosch Recent Developments/Updates

## 2.22 Texas Instruments

### 2.22.1 Texas Instruments Details

### 2.22.2 Texas Instruments Major Business

### 2.22.3 Texas Instruments Power Discretet Devices & Modules Product and Services

### 2.22.4 Texas Instruments Power Discretet Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.22.5 Texas Instruments Recent Developments/Updates

## 2.23 KEC Corporation

### 2.23.1 KEC Corporation Details

- 2.23.2 KEC Corporation Major Business
- 2.23.3 KEC Corporation Power Discretets Devices & Modules Product and Services
- 2.23.4 KEC Corporation Power Discretets Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.23.5 KEC Corporation Recent Developments/Updates
- 2.24 Cree (Wolfspeed)
  - 2.24.1 Cree (Wolfspeed) Details
  - 2.24.2 Cree (Wolfspeed) Major Business
  - 2.24.3 Cree (Wolfspeed) Power Discretets Devices & Modules Product and Services
  - 2.24.4 Cree (Wolfspeed) Power Discretets Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.24.5 Cree (Wolfspeed) Recent Developments/Updates
- 2.25 PANJIT Group
  - 2.25.1 PANJIT Group Details
  - 2.25.2 PANJIT Group Major Business
  - 2.25.3 PANJIT Group Power Discretets Devices & Modules Product and Services
  - 2.25.4 PANJIT Group Power Discretets Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.25.5 PANJIT Group Recent Developments/Updates
- 2.26 Unisonic Technologies (UTC)
  - 2.26.1 Unisonic Technologies (UTC) Details
  - 2.26.2 Unisonic Technologies (UTC) Major Business
  - 2.26.3 Unisonic Technologies (UTC) Power Discretets Devices & Modules Product and Services
  - 2.26.4 Unisonic Technologies (UTC) Power Discretets Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.26.5 Unisonic Technologies (UTC) Recent Developments/Updates
- 2.27 Niko Semiconductor
  - 2.27.1 Niko Semiconductor Details
  - 2.27.2 Niko Semiconductor Major Business
  - 2.27.3 Niko Semiconductor Power Discretets Devices & Modules Product and Services
  - 2.27.4 Niko Semiconductor Power Discretets Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.27.5 Niko Semiconductor 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 Power Discretets Devices & Modules Product and Services

2.28.4 Hangzhou Silan Microelectronics Power Discretet Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.28.5 Hangzhou Silan Microelectronics Recent Developments/Updates

2.29 Yangzhou Yangjie Electronic Technology

2.29.1 Yangzhou Yangjie Electronic Technology Details

2.29.2 Yangzhou Yangjie Electronic Technology Major Business

2.29.3 Yangzhou Yangjie Electronic Technology Power Discretet Devices & Modules Product and Services

2.29.4 Yangzhou Yangjie Electronic Technology Power Discretet Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.29.5 Yangzhou Yangjie Electronic Technology Recent Developments/Updates

2.30 China Resources Microelectronics Limited

2.30.1 China Resources Microelectronics Limited Details

2.30.2 China Resources Microelectronics Limited Major Business

2.30.3 China Resources Microelectronics Limited Power Discretet Devices & Modules Product and Services

2.30.4 China Resources Microelectronics Limited Power Discretet Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.30.5 China Resources Microelectronics Limited Recent Developments/Updates

2.31 Jilin Sino-Microelectronics

2.31.1 Jilin Sino-Microelectronics Details

2.31.2 Jilin Sino-Microelectronics Major Business

2.31.3 Jilin Sino-Microelectronics Power Discretet Devices & Modules Product and Services

2.31.4 Jilin Sino-Microelectronics Power Discretet Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.31.5 Jilin Sino-Microelectronics Recent Developments/Updates

2.32 StarPower

2.32.1 StarPower Details

2.32.2 StarPower Major Business

2.32.3 StarPower Power Discretet Devices & Modules Product and Services

2.32.4 StarPower Power Discretet Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.32.5 StarPower Recent Developments/Updates

2.33 NCEPOWER

2.33.1 NCEPOWER Details

2.33.2 NCEPOWER Major Business

2.33.3 NCEPOWER Power Discretet Devices & Modules Product and Services

2.33.4 NCEPOWER Power Discretet Devices & Modules Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2019-2024)

2.33.5 NCEPOWER Recent Developments/Updates

2.34 Hangzhou Li-On Microelectronics Corporation

2.34.1 Hangzhou Li-On Microelectronics Corporation Details

2.34.2 Hangzhou Li-On Microelectronics Corporation Major Business

2.34.3 Hangzhou Li-On Microelectronics Corporation Power Discrettes Devices & Modules Product and Services

2.34.4 Hangzhou Li-On Microelectronics Corporation Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.34.5 Hangzhou Li-On Microelectronics Corporation Recent Developments/Updates

2.35 Jiangsu Jiejie Microelectronics

2.35.1 Jiangsu Jiejie Microelectronics Details

2.35.2 Jiangsu Jiejie Microelectronics Major Business

2.35.3 Jiangsu Jiejie Microelectronics Power Discrettes Devices & Modules Product and Services

2.35.4 Jiangsu Jiejie Microelectronics Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.35.5 Jiangsu Jiejie Microelectronics Recent Developments/Updates

2.36 OmniVision Technologies

2.36.1 OmniVision Technologies Details

2.36.2 OmniVision Technologies Major Business

2.36.3 OmniVision Technologies Power Discrettes Devices & Modules Product and Services

2.36.4 OmniVision Technologies Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.36.5 OmniVision Technologies Recent Developments/Updates

2.37 Suzhou Good-Ark Electronics

2.37.1 Suzhou Good-Ark Electronics Details

2.37.2 Suzhou Good-Ark Electronics Major Business

2.37.3 Suzhou Good-Ark Electronics Power Discrettes Devices & Modules Product and Services

2.37.4 Suzhou Good-Ark Electronics Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.37.5 Suzhou Good-Ark Electronics Recent Developments/Updates

2.38 Zhuzhou CRRC Times Electric

2.38.1 Zhuzhou CRRC Times Electric Details

2.38.2 Zhuzhou CRRC Times Electric Major Business

2.38.3 Zhuzhou CRRC Times Electric Power Discrettes Devices & Modules Product



and Services

2.38.4 Zhuzhou CRRC Times Electric Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.38.5 Zhuzhou CRRC Times Electric Recent Developments/Updates

2.39 WeEn Semiconductors

2.39.1 WeEn Semiconductors Details

2.39.2 WeEn Semiconductors Major Business

2.39.3 WeEn Semiconductors Power Discrettes Devices & Modules Product and Services

2.39.4 WeEn Semiconductors Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.39.5 WeEn Semiconductors Recent Developments/Updates

2.40 Changzhou Galaxy Century Microelectronics

2.40.1 Changzhou Galaxy Century Microelectronics Details

2.40.2 Changzhou Galaxy Century Microelectronics Major Business

2.40.3 Changzhou Galaxy Century Microelectronics Power Discrettes Devices & Modules Product and Services

2.40.4 Changzhou Galaxy Century Microelectronics Power Discrettes Devices & Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.40.5 Changzhou Galaxy Century Microelectronics Recent Developments/Updates

2.41 MacMic Science & Technolog

2.42 BYD

2.43 Hubei TECH Semiconductors

2.44 JSC Mikron

### **3 COMPETITIVE ENVIRONMENT: POWER DISCRETES DEVICES & MODULES BY MANUFACTURER**

3.1 Global Power Discrettes Devices & Modules Sales Quantity by Manufacturer (2019-2024)

3.2 Global Power Discrettes Devices & Modules Revenue by Manufacturer (2019-2024)

3.3 Global Power Discrettes Devices & Modules Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of Power Discrettes Devices & Modules by Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 Power Discrettes Devices & Modules Manufacturer Market Share in 2023

3.4.2 Top 6 Power Discrettes Devices & Modules Manufacturer Market Share in 2023

### 3.5 Power Discretes Devices & Modules Market: Overall Company Footprint Analysis

#### 3.5.1 Power Discretes Devices & Modules Market: Region Footprint

#### 3.5.2 Power Discretes Devices & Modules Market: Company Product Type Footprint

#### 3.5.3 Power Discretes Devices & 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 Power Discretes Devices & Modules Market Size by Region

#### 4.1.1 Global Power Discretes Devices & Modules Sales Quantity by Region (2019-2030)

#### 4.1.2 Global Power Discretes Devices & Modules Consumption Value by Region (2019-2030)

#### 4.1.3 Global Power Discretes Devices & Modules Average Price by Region (2019-2030)

### 4.2 North America Power Discretes Devices & Modules Consumption Value (2019-2030)

### 4.3 Europe Power Discretes Devices & Modules Consumption Value (2019-2030)

### 4.4 Asia-Pacific Power Discretes Devices & Modules Consumption Value (2019-2030)

### 4.5 South America Power Discretes Devices & Modules Consumption Value (2019-2030)

### 4.6 Middle East and Africa Power Discretes Devices & Modules Consumption Value (2019-2030)

## 5 MARKET SEGMENT BY TYPE

### 5.1 Global Power Discretes Devices & Modules Sales Quantity by Type (2019-2030)

### 5.2 Global Power Discretes Devices & Modules Consumption Value by Type (2019-2030)

### 5.3 Global Power Discretes Devices & Modules Average Price by Type (2019-2030)

## 6 MARKET SEGMENT BY APPLICATION

### 6.1 Global Power Discretes Devices & Modules Sales Quantity by Application (2019-2030)

### 6.2 Global Power Discretes Devices & Modules Consumption Value by Application (2019-2030)

## 6.3 Global Power Discretes Devices & Modules Average Price by Application (2019-2030)

## 7 NORTH AMERICA

### 7.1 North America Power Discretes Devices & Modules Sales Quantity by Type (2019-2030)

### 7.2 North America Power Discretes Devices & Modules Sales Quantity by Application (2019-2030)

### 7.3 North America Power Discretes Devices & Modules Market Size by Country

#### 7.3.1 North America Power Discretes Devices & Modules Sales Quantity by Country (2019-2030)

#### 7.3.2 North America Power Discretes Devices & Modules Consumption Value by Country (2019-2030)

##### 7.3.3 United States Market Size and Forecast (2019-2030)

##### 7.3.4 Canada Market Size and Forecast (2019-2030)

##### 7.3.5 Mexico Market Size and Forecast (2019-2030)

## 8 EUROPE

### 8.1 Europe Power Discretes Devices & Modules Sales Quantity by Type (2019-2030)

### 8.2 Europe Power Discretes Devices & Modules Sales Quantity by Application (2019-2030)

### 8.3 Europe Power Discretes Devices & Modules Market Size by Country

#### 8.3.1 Europe Power Discretes Devices & Modules Sales Quantity by Country (2019-2030)

#### 8.3.2 Europe Power Discretes Devices & Modules Consumption Value by Country (2019-2030)

##### 8.3.3 Germany Market Size and Forecast (2019-2030)

##### 8.3.4 France Market Size and Forecast (2019-2030)

##### 8.3.5 United Kingdom Market Size and Forecast (2019-2030)

##### 8.3.6 Russia Market Size and Forecast (2019-2030)

##### 8.3.7 Italy Market Size and Forecast (2019-2030)

## 9 ASIA-PACIFIC

### 9.1 Asia-Pacific Power Discretes Devices & Modules Sales Quantity by Type (2019-2030)

### 9.2 Asia-Pacific Power Discretes Devices & Modules Sales Quantity by Application

(2019-2030)

### 9.3 Asia-Pacific Power Discretet Devices & Modules Market Size by Region

#### 9.3.1 Asia-Pacific Power Discretet Devices & Modules Sales Quantity by Region

(2019-2030)

#### 9.3.2 Asia-Pacific Power Discretet Devices & Modules Consumption Value by Region

(2019-2030)

#### 9.3.3 China Market Size and Forecast (2019-2030)

#### 9.3.4 Japan Market Size and Forecast (2019-2030)

#### 9.3.5 Korea Market Size and Forecast (2019-2030)

#### 9.3.6 India Market Size and Forecast (2019-2030)

#### 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

#### 9.3.8 Australia Market Size and Forecast (2019-2030)

## 10 SOUTH AMERICA

### 10.1 South America Power Discretet Devices & Modules Sales Quantity by Type

(2019-2030)

### 10.2 South America Power Discretet Devices & Modules Sales Quantity by Application

(2019-2030)

### 10.3 South America Power Discretet Devices & Modules Market Size by Country

#### 10.3.1 South America Power Discretet Devices & Modules Sales Quantity by Country

(2019-2030)

#### 10.3.2 South America Power Discretet Devices & Modules Consumption Value by Country (2019-2030)

#### 10.3.3 Brazil Market Size and Forecast (2019-2030)

#### 10.3.4 Argentina Market Size and Forecast (2019-2030)

## 11 MIDDLE EAST & AFRICA

### 11.1 Middle East & Africa Power Discretet Devices & Modules Sales Quantity by Type

(2019-2030)

### 11.2 Middle East & Africa Power Discretet Devices & Modules Sales Quantity by Application (2019-2030)

### 11.3 Middle East & Africa Power Discretet Devices & Modules Market Size by Country

#### 11.3.1 Middle East & Africa Power Discretet Devices & Modules Sales Quantity by Country (2019-2030)

#### 11.3.2 Middle East & Africa Power Discretet Devices & Modules Consumption Value by Country (2019-2030)

#### 11.3.3 Turkey Market Size and Forecast (2019-2030)

- 11.3.4 Egypt Market Size and Forecast (2019-2030)
- 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
- 11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

- 12.1 Power Discretet Devices & Modules Market Drivers
- 12.2 Power Discretet Devices & Modules Market Restraints
- 12.3 Power Discretet Devices & 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 Power Discretet Devices & Modules and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Power Discretet Devices & Modules
- 13.3 Power Discretet Devices & Modules Production Process
- 13.4 Power Discretet Devices & Modules Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Power Discretet Devices & Modules Typical Distributors
- 14.3 Power Discretet Devices & 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 Power Discretes Devices & Modules Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Power Discretes Devices & Modules Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Infineon Basic Information, Manufacturing Base and Competitors

Table 4. Infineon Major Business

Table 5. Infineon Power Discretes Devices & Modules Product and Services

Table 6. Infineon Power Discretes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Infineon Recent Developments/Updates

Table 8. Onsemi Basic Information, Manufacturing Base and Competitors

Table 9. Onsemi Major Business

Table 10. Onsemi Power Discretes Devices & Modules Product and Services

Table 11. Onsemi Power Discretes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Onsemi Recent Developments/Updates

Table 13. ST Microelectronics Basic Information, Manufacturing Base and Competitors

Table 14. ST Microelectronics Major Business

Table 15. ST Microelectronics Power Discretes Devices & Modules Product and Services

Table 16. ST Microelectronics Power Discretes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. ST Microelectronics Recent Developments/Updates

Table 18. Mitsubishi Electric (Vincotech) Basic Information, Manufacturing Base and Competitors

Table 19. Mitsubishi Electric (Vincotech) Major Business

Table 20. Mitsubishi Electric (Vincotech) Power Discretes Devices & Modules Product and Services

Table 21. Mitsubishi Electric (Vincotech) Power Discretes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Mitsubishi Electric (Vincotech) Recent Developments/Updates

- Table 23. Nexperia Basic Information, Manufacturing Base and Competitors
- Table 24. Nexperia Major Business
- Table 25. Nexperia Power Discretets Devices & Modules Product and Services
- Table 26. Nexperia Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 27. Nexperia Recent Developments/Updates
- Table 28. Vishay Intertechnology Basic Information, Manufacturing Base and Competitors
- Table 29. Vishay Intertechnology Major Business
- Table 30. Vishay Intertechnology Power Discretets Devices & Modules Product and Services
- Table 31. Vishay Intertechnology Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 32. Vishay Intertechnology Recent Developments/Updates
- Table 33. Toshiba Basic Information, Manufacturing Base and Competitors
- Table 34. Toshiba Major Business
- Table 35. Toshiba Power Discretets Devices & Modules Product and Services
- Table 36. Toshiba Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 37. Toshiba Recent Developments/Updates
- Table 38. Fuji Electric Basic Information, Manufacturing Base and Competitors
- Table 39. Fuji Electric Major Business
- Table 40. Fuji Electric Power Discretets Devices & Modules Product and Services
- Table 41. Fuji Electric Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 42. Fuji Electric Recent Developments/Updates
- Table 43. Rohm Basic Information, Manufacturing Base and Competitors
- Table 44. Rohm Major Business
- Table 45. Rohm Power Discretets Devices & Modules Product and Services
- Table 46. Rohm Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 47. Rohm Recent Developments/Updates
- Table 48. Renesas Electronics Basic Information, Manufacturing Base and Competitors
- Table 49. Renesas Electronics Major Business
- Table 50. Renesas Electronics Power Discretets Devices & Modules Product and

## Services

Table 51. Renesas Electronics Power Discretet Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Renesas Electronics Recent Developments/Updates

Table 53. Diodes Incorporated Basic Information, Manufacturing Base and Competitors

Table 54. Diodes Incorporated Major Business

Table 55. Diodes Incorporated Power Discretet Devices & Modules Product and Services

Table 56. Diodes Incorporated Power Discretet Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Diodes Incorporated Recent Developments/Updates

Table 58. Littelfuse (IXYS) Basic Information, Manufacturing Base and Competitors

Table 59. Littelfuse (IXYS) Major Business

Table 60. Littelfuse (IXYS) Power Discretet Devices & Modules Product and Services

Table 61. Littelfuse (IXYS) Power Discretet Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. Littelfuse (IXYS) Recent Developments/Updates

Table 63. Alpha & Omega Semiconductor Basic Information, Manufacturing Base and Competitors

Table 64. Alpha & Omega Semiconductor Major Business

Table 65. Alpha & Omega Semiconductor Power Discretet Devices & Modules Product and Services

Table 66. Alpha & Omega Semiconductor Power Discretet Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. Alpha & Omega Semiconductor Recent Developments/Updates

Table 68. SEMIKRON Basic Information, Manufacturing Base and Competitors

Table 69. SEMIKRON Major Business

Table 70. SEMIKRON Power Discretet Devices & Modules Product and Services

Table 71. SEMIKRON Power Discretet Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 72. SEMIKRON Recent Developments/Updates

Table 73. Hitachi Power Semiconductor Device Basic Information, Manufacturing Base and Competitors

Table 74. Hitachi Power Semiconductor Device Major Business



Table 75. Hitachi Power Semiconductor Device Power Discretet Devices & Modules Product and Services

Table 76. Hitachi Power Semiconductor Device Power Discretet Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. Hitachi Power Semiconductor Device Recent Developments/Updates

Table 78. Microchip Basic Information, Manufacturing Base and Competitors

Table 79. Microchip Major Business

Table 80. Microchip Power Discretet Devices & Modules Product and Services

Table 81. Microchip Power Discretet Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 82. Microchip Recent Developments/Updates

Table 83. Sanken Electric Basic Information, Manufacturing Base and Competitors

Table 84. Sanken Electric Major Business

Table 85. Sanken Electric Power Discretet Devices & Modules Product and Services

Table 86. Sanken Electric Power Discretet Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 87. Sanken Electric Recent Developments/Updates

Table 88. Semtech Basic Information, Manufacturing Base and Competitors

Table 89. Semtech Major Business

Table 90. Semtech Power Discretet Devices & Modules Product and Services

Table 91. Semtech Power Discretet Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 92. Semtech Recent Developments/Updates

Table 93. MagnaChip Basic Information, Manufacturing Base and Competitors

Table 94. MagnaChip Major Business

Table 95. MagnaChip Power Discretet Devices & Modules Product and Services

Table 96. MagnaChip Power Discretet Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 97. MagnaChip Recent Developments/Updates

Table 98. Danfoss Basic Information, Manufacturing Base and Competitors

Table 99. Danfoss Major Business

Table 100. Danfoss Power Discretet Devices & Modules Product and Services

Table 101. Danfoss Power Discretet Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share

(2019-2024)

Table 102. Danfoss Recent Developments/Updates

Table 103. Bosch Basic Information, Manufacturing Base and Competitors

Table 104. Bosch Major Business

Table 105. Bosch Power Discretes Devices & Modules Product and Services

Table 106. Bosch Power Discretes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 107. Bosch Recent Developments/Updates

Table 108. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 109. Texas Instruments Major Business

Table 110. Texas Instruments Power Discretes Devices & Modules Product and Services

Table 111. Texas Instruments Power Discretes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 112. Texas Instruments Recent Developments/Updates

Table 113. KEC Corporation Basic Information, Manufacturing Base and Competitors

Table 114. KEC Corporation Major Business

Table 115. KEC Corporation Power Discretes Devices & Modules Product and Services

Table 116. KEC Corporation Power Discretes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 117. KEC Corporation Recent Developments/Updates

Table 118. Cree (Wolfspeed) Basic Information, Manufacturing Base and Competitors

Table 119. Cree (Wolfspeed) Major Business

Table 120. Cree (Wolfspeed) Power Discretes Devices & Modules Product and Services

Table 121. Cree (Wolfspeed) Power Discretes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 122. Cree (Wolfspeed) Recent Developments/Updates

Table 123. PANJIT Group Basic Information, Manufacturing Base and Competitors

Table 124. PANJIT Group Major Business

Table 125. PANJIT Group Power Discretes Devices & Modules Product and Services

Table 126. PANJIT Group Power Discretes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 127. PANJIT Group Recent Developments/Updates

Table 128. Unisonic Technologies (UTC) Basic Information, Manufacturing Base and Competitors

Table 129. Unisonic Technologies (UTC) Major Business

Table 130. Unisonic Technologies (UTC) Power Discretets Devices & Modules Product and Services

Table 131. Unisonic Technologies (UTC) Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 132. Unisonic Technologies (UTC) Recent Developments/Updates

Table 133. Niko Semiconductor Basic Information, Manufacturing Base and Competitors

Table 134. Niko Semiconductor Major Business

Table 135. Niko Semiconductor Power Discretets Devices & Modules Product and Services

Table 136. Niko Semiconductor Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 137. Niko Semiconductor 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 Power Discretets Devices & Modules Product and Services

Table 141. Hangzhou Silan Microelectronics Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 142. Hangzhou Silan Microelectronics Recent Developments/Updates

Table 143. Yangzhou Yangjie Electronic Technology Basic Information, Manufacturing Base and Competitors

Table 144. Yangzhou Yangjie Electronic Technology Major Business

Table 145. Yangzhou Yangjie Electronic Technology Power Discretets Devices & Modules Product and Services

Table 146. Yangzhou Yangjie Electronic Technology Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 147. Yangzhou Yangjie Electronic Technology Recent Developments/Updates

Table 148. China Resources Microelectronics Limited Basic Information, Manufacturing Base and Competitors

Table 149. China Resources Microelectronics Limited Major Business

Table 150. China Resources Microelectronics Limited Power Discretets Devices & Modules Product and Services

Table 151. China Resources Microelectronics Limited Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 152. China Resources Microelectronics Limited Recent Developments/Updates

Table 153. Jilin Sino-Microelectronics Basic Information, Manufacturing Base and Competitors

Table 154. Jilin Sino-Microelectronics Major Business

Table 155. Jilin Sino-Microelectronics Power Discretets Devices & Modules Product and Services

Table 156. Jilin Sino-Microelectronics Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 157. Jilin Sino-Microelectronics Recent Developments/Updates

Table 158. StarPower Basic Information, Manufacturing Base and Competitors

Table 159. StarPower Major Business

Table 160. StarPower Power Discretets Devices & Modules Product and Services

Table 161. StarPower Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 162. StarPower Recent Developments/Updates

Table 163. NCEPOWER Basic Information, Manufacturing Base and Competitors

Table 164. NCEPOWER Major Business

Table 165. NCEPOWER Power Discretets Devices & Modules Product and Services

Table 166. NCEPOWER Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 167. NCEPOWER Recent Developments/Updates

Table 168. Hangzhou Li-On Microelectronics Corporation Basic Information, Manufacturing Base and Competitors

Table 169. Hangzhou Li-On Microelectronics Corporation Major Business

Table 170. Hangzhou Li-On Microelectronics Corporation Power Discretets Devices & Modules Product and Services

Table 171. Hangzhou Li-On Microelectronics Corporation Power Discretets Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 172. Hangzhou Li-On Microelectronics Corporation Recent Developments/Updates

Table 173. Jiangsu Jiejie Microelectronics Basic Information, Manufacturing Base and Competitors

Table 174. Jiangsu Jiejie Microelectronics Major Business

Table 175. Jiangsu Jiejie Microelectronics Power Discrettes Devices & Modules Product and Services

Table 176. Jiangsu Jiejie Microelectronics Power Discrettes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 177. Jiangsu Jiejie Microelectronics Recent Developments/Updates

Table 178. OmniVision Technologies Basic Information, Manufacturing Base and Competitors

Table 179. OmniVision Technologies Major Business

Table 180. OmniVision Technologies Power Discrettes Devices & Modules Product and Services

Table 181. OmniVision Technologies Power Discrettes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 182. OmniVision Technologies Recent Developments/Updates

Table 183. Suzhou Good-Ark Electronics Basic Information, Manufacturing Base and Competitors

Table 184. Suzhou Good-Ark Electronics Major Business

Table 185. Suzhou Good-Ark Electronics Power Discrettes Devices & Modules Product and Services

Table 186. Suzhou Good-Ark Electronics Power Discrettes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 187. Suzhou Good-Ark Electronics Recent Developments/Updates

Table 188. Zhuzhou CRRC Times Electric Basic Information, Manufacturing Base and Competitors

Table 189. Zhuzhou CRRC Times Electric Major Business

Table 190. Zhuzhou CRRC Times Electric Power Discrettes Devices & Modules Product and Services

Table 191. Zhuzhou CRRC Times Electric Power Discrettes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 192. Zhuzhou CRRC Times Electric Recent Developments/Updates

Table 193. WeEn Semiconductors Basic Information, Manufacturing Base and Competitors

Table 194. WeEn Semiconductors Major Business

Table 195. WeEn Semiconductors Power Discrettes Devices & Modules Product and Services

Table 196. WeEn Semiconductors Power Discrettes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 197. WeEn Semiconductors Recent Developments/Updates

Table 198. Changzhou Galaxy Century Microelectronics Basic Information, Manufacturing Base and Competitors

Table 199. Changzhou Galaxy Century Microelectronics Major Business

Table 200. Changzhou Galaxy Century Microelectronics Power Discrettes Devices & Modules Product and Services

Table 201. Changzhou Galaxy Century Microelectronics Power Discrettes Devices & Modules Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 202. Changzhou Galaxy Century Microelectronics Recent Developments/Updates

Table 203. Global Power Discrettes Devices & Modules Sales Quantity by Manufacturer (2019-2024) & (K Units)

Table 204. Global Power Discrettes Devices & Modules Revenue by Manufacturer (2019-2024) & (USD Million)

Table 205. Global Power Discrettes Devices & Modules Average Price by Manufacturer (2019-2024) & (USD/Unit)

Table 206. Market Position of Manufacturers in Power Discrettes Devices & Modules, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 207. Head Office and Power Discrettes Devices & Modules Production Site of Key Manufacturer

Table 208. Power Discrettes Devices & Modules Market: Company Product Type Footprint

Table 209. Power Discrettes Devices & Modules Market: Company Product Application Footprint

Table 210. Power Discrettes Devices & Modules New Market Entrants and Barriers to Market Entry

Table 211. Power Discrettes Devices & Modules Mergers, Acquisition, Agreements, and Collaborations

Table 212. Global Power Discrettes Devices & Modules Sales Quantity by Region (2019-2024) & (K Units)

Table 213. Global Power Discrettes Devices & Modules Sales Quantity by Region (2025-2030) & (K Units)

Table 214. Global Power Discrettes Devices & Modules Consumption Value by Region (2019-2024) & (USD Million)

Table 215. Global Power Discretet Devices & Modules Consumption Value by Region (2025-2030) & (USD Million)

Table 216. Global Power Discretet Devices & Modules Average Price by Region (2019-2024) & (USD/Unit)

Table 217. Global Power Discretet Devices & Modules Average Price by Region (2025-2030) & (USD/Unit)

Table 218. Global Power Discretet Devices & Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 219. Global Power Discretet Devices & Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 220. Global Power Discretet Devices & Modules Consumption Value by Type (2019-2024) & (USD Million)

Table 221. Global Power Discretet Devices & Modules Consumption Value by Type (2025-2030) & (USD Million)

Table 222. Global Power Discretet Devices & Modules Average Price by Type (2019-2024) & (USD/Unit)

Table 223. Global Power Discretet Devices & Modules Average Price by Type (2025-2030) & (USD/Unit)

Table 224. Global Power Discretet Devices & Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 225. Global Power Discretet Devices & Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 226. Global Power Discretet Devices & Modules Consumption Value by Application (2019-2024) & (USD Million)

Table 227. Global Power Discretet Devices & Modules Consumption Value by Application (2025-2030) & (USD Million)

Table 228. Global Power Discretet Devices & Modules Average Price by Application (2019-2024) & (USD/Unit)

Table 229. Global Power Discretet Devices & Modules Average Price by Application (2025-2030) & (USD/Unit)

Table 230. North America Power Discretet Devices & Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 231. North America Power Discretet Devices & Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 232. North America Power Discretet Devices & Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 233. North America Power Discretet Devices & Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 234. North America Power Discretet Devices & Modules Sales Quantity by

Country (2019-2024) & (K Units)

Table 235. North America Power Discretets Devices & Modules Sales Quantity by Country (2025-2030) & (K Units)

Table 236. North America Power Discretets Devices & Modules Consumption Value by Country (2019-2024) & (USD Million)

Table 237. North America Power Discretets Devices & Modules Consumption Value by Country (2025-2030) & (USD Million)

Table 238. Europe Power Discretets Devices & Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 239. Europe Power Discretets Devices & Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 240. Europe Power Discretets Devices & Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 241. Europe Power Discretets Devices & Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 242. Europe Power Discretets Devices & Modules Sales Quantity by Country (2019-2024) & (K Units)

Table 243. Europe Power Discretets Devices & Modules Sales Quantity by Country (2025-2030) & (K Units)

Table 244. Europe Power Discretets Devices & Modules Consumption Value by Country (2019-2024) & (USD Million)

Table 245. Europe Power Discretets Devices & Modules Consumption Value by Country (2025-2030) & (USD Million)

Table 246. Asia-Pacific Power Discretets Devices & Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 247. Asia-Pacific Power Discretets Devices & Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 248. Asia-Pacific Power Discretets Devices & Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 249. Asia-Pacific Power Discretets Devices & Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 250. Asia-Pacific Power Discretets Devices & Modules Sales Quantity by Region (2019-2024) & (K Units)

Table 251. Asia-Pacific Power Discretets Devices & Modules Sales Quantity by Region (2025-2030) & (K Units)

Table 252. Asia-Pacific Power Discretets Devices & Modules Consumption Value by Region (2019-2024) & (USD Million)

Table 253. Asia-Pacific Power Discretets Devices & Modules Consumption Value by Region (2025-2030) & (USD Million)



Table 254. South America Power Discretet Devices & Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 255. South America Power Discretet Devices & Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 256. South America Power Discretet Devices & Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 257. South America Power Discretet Devices & Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 258. South America Power Discretet Devices & Modules Sales Quantity by Country (2019-2024) & (K Units)

Table 259. South America Power Discretet Devices & Modules Sales Quantity by Country (2025-2030) & (K Units)

Table 260. South America Power Discretet Devices & Modules Consumption Value by Country (2019-2024) & (USD Million)

Table 261. South America Power Discretet Devices & Modules Consumption Value by Country (2025-2030) & (USD Million)

Table 262. Middle East & Africa Power Discretet Devices & Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 263. Middle East & Africa Power Discretet Devices & Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 264. Middle East & Africa Power Discretet Devices & Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 265. Middle East & Africa Power Discretet Devices & Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 266. Middle East & Africa Power Discretet Devices & Modules Sales Quantity by Region (2019-2024) & (K Units)

Table 267. Middle East & Africa Power Discretet Devices & Modules Sales Quantity by Region (2025-2030) & (K Units)

Table 268. Middle East & Africa Power Discretet Devices & Modules Consumption Value by Region (2019-2024) & (USD Million)

Table 269. Middle East & Africa Power Discretet Devices & Modules Consumption Value by Region (2025-2030) & (USD Million)

Table 270. Power Discretet Devices & Modules Raw Material

Table 271. Key Manufacturers of Power Discretet Devices & Modules Raw Materials

Table 272. Power Discretet Devices & Modules Typical Distributors

Table 273. Power Discretet Devices & Modules Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Power Discretets Devices & Modules Picture
- Figure 2. Global Power Discretets Devices & Modules Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Figure 3. Global Power Discretets Devices & Modules Consumption Value Market Share by Type in 2023
- Figure 4. MOSFETs Examples
- Figure 5. Rectifiers Examples
- Figure 6. Discrete IGBTs Examples
- Figure 7. Bipolar Power Transistors Examples
- Figure 8. Thyristors Examples
- Figure 9. Standard IGBT Modules Examples
- Figure 10. Intelligent Power Modules Examples
- Figure 11. Thyristor Modules Examples
- Figure 12. Power Integrated Modules Examples
- Figure 13. Others Examples
- Figure 14. Global Power Discretets Devices & Modules Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Figure 15. Global Power Discretets Devices & Modules Consumption Value Market Share by Application in 2023
- Figure 16. Automotive & Transportation Examples
- Figure 17. Industrial Examples
- Figure 18. Consumer Examples
- Figure 19. Communication Examples
- Figure 20. Others Examples
- Figure 21. Global Power Discretets Devices & Modules Consumption Value, (USD Million): 2019 & 2023 & 2030
- Figure 22. Global Power Discretets Devices & Modules Consumption Value and Forecast (2019-2030) & (USD Million)
- Figure 23. Global Power Discretets Devices & Modules Sales Quantity (2019-2030) & (K Units)
- Figure 24. Global Power Discretets Devices & Modules Average Price (2019-2030) & (USD/Unit)
- Figure 25. Global Power Discretets Devices & Modules Sales Quantity Market Share by Manufacturer in 2023
- Figure 26. Global Power Discretets Devices & Modules Consumption Value Market

Share by Manufacturer in 2023

Figure 27. Producer Shipments of Power Discrettes Devices & Modules by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 28. Top 3 Power Discrettes Devices & Modules Manufacturer (Consumption Value) Market Share in 2023

Figure 29. Top 6 Power Discrettes Devices & Modules Manufacturer (Consumption Value) Market Share in 2023

Figure 30. Global Power Discrettes Devices & Modules Sales Quantity Market Share by Region (2019-2030)

Figure 31. Global Power Discrettes Devices & Modules Consumption Value Market Share by Region (2019-2030)

Figure 32. North America Power Discrettes Devices & Modules Consumption Value (2019-2030) & (USD Million)

Figure 33. Europe Power Discrettes Devices & Modules Consumption Value (2019-2030) & (USD Million)

Figure 34. Asia-Pacific Power Discrettes Devices & Modules Consumption Value (2019-2030) & (USD Million)

Figure 35. South America Power Discrettes Devices & Modules Consumption Value (2019-2030) & (USD Million)

Figure 36. Middle East & Africa Power Discrettes Devices & Modules Consumption Value (2019-2030) & (USD Million)

Figure 37. Global Power Discrettes Devices & Modules Sales Quantity Market Share by Type (2019-2030)

Figure 38. Global Power Discrettes Devices & Modules Consumption Value Market Share by Type (2019-2030)

Figure 39. Global Power Discrettes Devices & Modules Average Price by Type (2019-2030) & (USD/Unit)

Figure 40. Global Power Discrettes Devices & Modules Sales Quantity Market Share by Application (2019-2030)

Figure 41. Global Power Discrettes Devices & Modules Consumption Value Market Share by Application (2019-2030)

Figure 42. Global Power Discrettes Devices & Modules Average Price by Application (2019-

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