

# Global Power Semiconductor in Data Center Market Research Report 2026(Status and Outlook)

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## Abstracts

Power semiconductors in data centers refer to power electronic devices responsible for converting, regulating, and distributing electrical power within data center systems. This category includes traditional silicon-based insulated-gate bipolar transistors (IGBTs) and MOSFETs, as well as increasingly crucial wide-bandgap (WBG) devices like silicon carbide (SiC) and gallium nitride (GaN) MOSFETs and diodes. These components underpin essential functions such as AC?DC front-end rectification, uninterruptible power supply (UPS), DC?DC conversion, and server power supply units (PSUs), ensuring efficient, reliable, and low-EMI power delivery in environments with demanding performance, thermal, and density requirements. Looking forward, three key trends are shaping the adoption and evolution of power semiconductors in data centers: Wide-Bandgap Revolution (SiC & GaN): WBG devices offer significantly lower switching and conduction losses, higher thermal stability, and faster switching speeds compared to traditional silicon components. For instance, SiC MOSFETs can improve PSU efficiency by reducing conversion losses by ~1%, translating to substantial energy savings and heat reduction. GaN-based converters regularly exceed 98% efficiency, making them ideal for high-density rack-mounted power systems. Energy Efficiency & Sustainability Imperatives: With global data center power consumption projected to surpass 1,000?TWh by 2026, integrating high-efficiency power devices is critical. Wider temperature and voltage operation ranges of SiC and GaN allow designers to simplify cooling architectures and lower PUE. Analysts estimate WBG adoption could reduce data center energy use by up to 10%, saving billions in electricity and cooling costs annually while significantly cutting carbon emissions. System Integration & Power Density Scaling: As rack-level power densities climb past 100?kW, power supply modules are evolving into compact, high-performance assemblies. This shift favors WBG devices for their efficiency and thermal resilience. Leading OEMs and cloud providers are launching power modules embedding SiC and GaN in high-power

applications like server PSUs and UPS systems. In summary, power semiconductors for data centers are transitioning from silicon-based devices to wide-bandgap technologies. SiC and GaN offer transformative benefits in energy efficiency, thermal performance, and system size, addressing constraints in modern AI-driven and high-density data centers. Adoption is expected to accelerate, driven by industry-wide goals for sustainability and cost-effective operation, with WBG power electronics set to become mainstream in next-generation power architectures.

The global Power Semiconductor in Data Center market size was estimated at USD 534.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 11.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Power Semiconductor in Data Center market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Power Semiconductor in Data Center market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Power Semiconductor in Data Center market.

## **Global Power Semiconductor in Data Center Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the

overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

STMicroelectronics  
Infineon  
Wolfspeed  
Rohm  
onsemi  
BYD Semiconductor  
Microchip (Microsemi)  
Mitsubishi Electric  
Semikron Danfoss  
Fuji Electric  
Navitas (GeneSiC)  
Toshiba  
Texas Instruments  
San'an Optoelectronics  
Littelfuse  
CETC 55  
WeEn Semiconductors  
BASiC Semiconductor  
Renesas Electronics  
Diodes Incorporated  
SanRex  
Alpha & Omega Semiconductor  
Sanken Electric  
Semtech  
KEC Corporation  
PANJIT Group  
Nexperia

Vishay Intertechnology  
Zhuzhou CRRC Times Electric  
China Resources Microelectronics Limited

### **Market Segmentation (by Type)**

MOSFET  
IGBT  
Diodes  
Others

### **Market Segmentation (by Application)**

Small and Medium-sized Data Center  
Large Data Center  
Very Large Data Center

### **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 Power Semiconductor in Data Center Market  
Overview of the regional outlook of the Power Semiconductor in Data Center Market:

## **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 Power Semiconductor in Data Center 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 shares the main producing countries of Power Semiconductor in Data Center, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 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 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **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 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**

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## Contents

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

- 1.1 Market Definition and Statistical Scope of Power Semiconductor in Data Center
- 1.2 Key Market Segments
  - 1.2.1 Power Semiconductor in Data Center Segment by Type
  - 1.2.2 Power Semiconductor in Data Center 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 POWER SEMICONDUCTOR IN DATA CENTER MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Power Semiconductor in Data Center Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global Power Semiconductor in Data Center Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 POWER SEMICONDUCTOR IN DATA CENTER MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global Power Semiconductor in Data Center Product Life Cycle
- 3.3 Global Power Semiconductor in Data Center Sales by Manufacturers (2020-2025)
- 3.4 Global Power Semiconductor in Data Center Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Power Semiconductor in Data Center Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Power Semiconductor in Data Center Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Power Semiconductor in Data Center Market Competitive Situation and Trends

- 3.8.1 Power Semiconductor in Data Center Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Power Semiconductor in Data Center Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

#### **4 POWER SEMICONDUCTOR IN DATA CENTER INDUSTRY CHAIN ANALYSIS**

- 4.1 Power Semiconductor in Data Center Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

#### **5 THE DEVELOPMENT AND DYNAMICS OF POWER SEMICONDUCTOR IN DATA CENTER MARKET**

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
  - 5.4.1 New Product Developments
  - 5.4.2 Mergers & Acquisitions
  - 5.4.3 Expansions
  - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
  - 5.5.1 Industry Policies Analysis
  - 5.5.2 Economic Environment Analysis
  - 5.5.3 Social Environment Analysis
  - 5.5.4 Technological Environment Analysis
- 5.6 Global Power Semiconductor in Data Center Market Porter's Five Forces Analysis
  - 5.6.1 Global Trade Frictions
  - 5.6.2 U.S. Tariff Policy ? April 2025
  - 5.6.3 Global Trade Frictions and Their Impacts to Power Semiconductor in Data Center Market
- 5.7 ESG Ratings of Leading Companies

#### **6 POWER SEMICONDUCTOR IN DATA CENTER MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Power Semiconductor in Data Center Sales Market Share by Type (2020-2025)

6.3 Global Power Semiconductor in Data Center Market Size by Type (2020-2025)

6.4 Global Power Semiconductor in Data Center Price by Type (2020-2025)

## **7 POWER SEMICONDUCTOR IN DATA CENTER MARKET SEGMENTATION BY APPLICATION**

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Power Semiconductor in Data Center Market Sales by Application (2020-2025)

7.3 Global Power Semiconductor in Data Center Market Size (M USD) by Application (2020-2025)

7.4 Global Power Semiconductor in Data Center Sales Growth Rate by Application (2020-2025)

## **8 POWER SEMICONDUCTOR IN DATA CENTER MARKET SALES BY REGION**

8.1 Global Power Semiconductor in Data Center Sales by Region

8.1.1 Global Power Semiconductor in Data Center Sales by Region

8.1.2 Global Power Semiconductor in Data Center Sales Market Share by Region

8.2 Global Power Semiconductor in Data Center Market Size by Region

8.2.1 Global Power Semiconductor in Data Center Market Size by Region

8.2.2 Global Power Semiconductor in Data Center Market Size by Region

8.3 North America

8.3.1 North America Power Semiconductor in Data Center Sales by Country

8.3.2 North America Power Semiconductor in Data Center Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Power Semiconductor in Data Center Sales by Country

8.4.2 Europe Power Semiconductor in Data Center Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

- 8.5.1 Asia Pacific Power Semiconductor in Data Center Sales by Region
- 8.5.2 Asia Pacific Power Semiconductor in Data Center Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
  - 8.6.1 South America Power Semiconductor in Data Center Sales by Country
  - 8.6.2 South America Power Semiconductor in Data Center Market Size by Country
  - 8.6.3 Brazil Market Overview
  - 8.6.4 Argentina Market Overview
  - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
  - 8.7.1 Middle East and Africa Power Semiconductor in Data Center Sales by Region
  - 8.7.2 Middle East and Africa Power Semiconductor in Data Center Market Size by Region
  - 8.7.3 Saudi Arabia Market Overview
  - 8.7.4 UAE Market Overview
  - 8.7.5 Egypt Market Overview
  - 8.7.6 Nigeria Market Overview
  - 8.7.7 South Africa Market Overview

## **9 POWER SEMICONDUCTOR IN DATA CENTER MARKET PRODUCTION BY REGION**

- 9.1 Global Production of Power Semiconductor in Data Center by Region(2020-2025)
- 9.2 Global Power Semiconductor in Data Center Revenue Market Share by Region (2020-2025)
- 9.3 Global Power Semiconductor in Data Center Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Power Semiconductor in Data Center Production
  - 9.4.1 North America Power Semiconductor in Data Center Production Growth Rate (2020-2025)
  - 9.4.2 North America Power Semiconductor in Data Center Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Power Semiconductor in Data Center Production
  - 9.5.1 Europe Power Semiconductor in Data Center Production Growth Rate (2020-2025)

9.5.2 Europe Power Semiconductor in Data Center Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Power Semiconductor in Data Center Production (2020-2025)

9.6.1 Japan Power Semiconductor in Data Center Production Growth Rate (2020-2025)

9.6.2 Japan Power Semiconductor in Data Center Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Power Semiconductor in Data Center Production (2020-2025)

9.7.1 China Power Semiconductor in Data Center Production Growth Rate (2020-2025)

9.7.2 China Power Semiconductor in Data Center Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

10.1 STMicroelectronics

10.1.1 STMicroelectronics Basic Information

10.1.2 STMicroelectronics Power Semiconductor in Data Center Product Overview

10.1.3 STMicroelectronics Power Semiconductor in Data Center Product Market Performance

10.1.4 STMicroelectronics Business Overview

10.1.5 STMicroelectronics SWOT Analysis

10.1.6 STMicroelectronics Recent Developments

10.2 Infineon

10.2.1 Infineon Basic Information

10.2.2 Infineon Power Semiconductor in Data Center Product Overview

10.2.3 Infineon Power Semiconductor in Data Center Product Market Performance

10.2.4 Infineon Business Overview

10.2.5 Infineon SWOT Analysis

10.2.6 Infineon Recent Developments

10.3 Wolfspeed

10.3.1 Wolfspeed Basic Information

10.3.2 Wolfspeed Power Semiconductor in Data Center Product Overview

10.3.3 Wolfspeed Power Semiconductor in Data Center Product Market Performance

10.3.4 Wolfspeed Business Overview

10.3.5 Wolfspeed SWOT Analysis

10.3.6 Wolfspeed Recent Developments

10.4 Rohm

10.4.1 Rohm Basic Information

- 10.4.2 Rohm Power Semiconductor in Data Center Product Overview
- 10.4.3 Rohm Power Semiconductor in Data Center Product Market Performance
- 10.4.4 Rohm Business Overview
- 10.4.5 Rohm Recent Developments
- 10.5 onsemi
  - 10.5.1 onsemi Basic Information
  - 10.5.2 onsemi Power Semiconductor in Data Center Product Overview
  - 10.5.3 onsemi Power Semiconductor in Data Center Product Market Performance
  - 10.5.4 onsemi Business Overview
  - 10.5.5 onsemi Recent Developments
- 10.6 BYD Semiconductor
  - 10.6.1 BYD Semiconductor Basic Information
  - 10.6.2 BYD Semiconductor Power Semiconductor in Data Center Product Overview
  - 10.6.3 BYD Semiconductor Power Semiconductor in Data Center Product Market Performance
  - 10.6.4 BYD Semiconductor Business Overview
  - 10.6.5 BYD Semiconductor Recent Developments
- 10.7 Microchip (Microsemi)
  - 10.7.1 Microchip (Microsemi) Basic Information
  - 10.7.2 Microchip (Microsemi) Power Semiconductor in Data Center Product Overview
  - 10.7.3 Microchip (Microsemi) Power Semiconductor in Data Center Product Market Performance
  - 10.7.4 Microchip (Microsemi) Business Overview
  - 10.7.5 Microchip (Microsemi) Recent Developments
- 10.8 Mitsubishi Electric
  - 10.8.1 Mitsubishi Electric Basic Information
  - 10.8.2 Mitsubishi Electric Power Semiconductor in Data Center Product Overview
  - 10.8.3 Mitsubishi Electric Power Semiconductor in Data Center Product Market Performance
  - 10.8.4 Mitsubishi Electric Business Overview
  - 10.8.5 Mitsubishi Electric Recent Developments
- 10.9 Semikron Danfoss
  - 10.9.1 Semikron Danfoss Basic Information
  - 10.9.2 Semikron Danfoss Power Semiconductor in Data Center Product Overview
  - 10.9.3 Semikron Danfoss Power Semiconductor in Data Center Product Market Performance
  - 10.9.4 Semikron Danfoss Business Overview
  - 10.9.5 Semikron Danfoss Recent Developments
- 10.10 Fuji Electric

10.10.1 Fuji Electric Basic Information

10.10.2 Fuji Electric Power Semiconductor in Data Center Product Overview

10.10.3 Fuji Electric Power Semiconductor in Data Center Product Market

Performance

10.10.4 Fuji Electric Business Overview

10.10.5 Fuji Electric Recent Developments

10.11 Navitas (GeneSiC)

10.11.1 Navitas (GeneSiC) Basic Information

10.11.2 Navitas (GeneSiC) Power Semiconductor in Data Center Product Overview

10.11.3 Navitas (GeneSiC) Power Semiconductor in Data Center Product Market

Performance

10.11.4 Navitas (GeneSiC) Business Overview

10.11.5 Navitas (GeneSiC) Recent Developments

10.12 Toshiba

10.12.1 Toshiba Basic Information

10.12.2 Toshiba Power Semiconductor in Data Center Product Overview

10.12.3 Toshiba Power Semiconductor in Data Center Product Market Performance

10.12.4 Toshiba Business Overview

10.12.5 Toshiba Recent Developments

10.13 Texas Instruments

10.13.1 Texas Instruments Basic Information

10.13.2 Texas Instruments Power Semiconductor in Data Center Product Overview

10.13.3 Texas Instruments Power Semiconductor in Data Center Product Market

Performance

10.13.4 Texas Instruments Business Overview

10.13.5 Texas Instruments Recent Developments

10.14 San'an Optoelectronics

10.14.1 San'an Optoelectronics Basic Information

10.14.2 San'an Optoelectronics Power Semiconductor in Data Center Product

Overview

10.14.3 San'an Optoelectronics Power Semiconductor in Data Center Product Market

Performance

10.14.4 San'an Optoelectronics Business Overview

10.14.5 San'an Optoelectronics Recent Developments

10.15 Littelfuse

10.15.1 Littelfuse Basic Information

10.15.2 Littelfuse Power Semiconductor in Data Center Product Overview

10.15.3 Littelfuse Power Semiconductor in Data Center Product Market Performance

10.15.4 Littelfuse Business Overview

- 10.15.5 Littelfuse Recent Developments
- 10.16 CETC 55
  - 10.16.1 CETC 55 Basic Information
  - 10.16.2 CETC 55 Power Semiconductor in Data Center Product Overview
  - 10.16.3 CETC 55 Power Semiconductor in Data Center Product Market Performance
  - 10.16.4 CETC 55 Business Overview
  - 10.16.5 CETC 55 Recent Developments
- 10.17 WeEn Semiconductors
  - 10.17.1 WeEn Semiconductors Basic Information
  - 10.17.2 WeEn Semiconductors Power Semiconductor in Data Center Product Overview
  - 10.17.3 WeEn Semiconductors Power Semiconductor in Data Center Product Market Performance
  - 10.17.4 WeEn Semiconductors Business Overview
  - 10.17.5 WeEn Semiconductors Recent Developments
- 10.18 BASiC Semiconductor
  - 10.18.1 BASiC Semiconductor Basic Information
  - 10.18.2 BASiC Semiconductor Power Semiconductor in Data Center Product Overview
  - 10.18.3 BASiC Semiconductor Power Semiconductor in Data Center Product Market Performance
  - 10.18.4 BASiC Semiconductor Business Overview
  - 10.18.5 BASiC Semiconductor Recent Developments
- 10.19 Renesas Electronics
  - 10.19.1 Renesas Electronics Basic Information
  - 10.19.2 Renesas Electronics Power Semiconductor in Data Center Product Overview
  - 10.19.3 Renesas Electronics Power Semiconductor in Data Center Product Market Performance
  - 10.19.4 Renesas Electronics Business Overview
  - 10.19.5 Renesas Electronics Recent Developments
- 10.20 Diodes Incorporated
  - 10.20.1 Diodes Incorporated Basic Information
  - 10.20.2 Diodes Incorporated Power Semiconductor in Data Center Product Overview
  - 10.20.3 Diodes Incorporated Power Semiconductor in Data Center Product Market Performance
  - 10.20.4 Diodes Incorporated Business Overview
  - 10.20.5 Diodes Incorporated Recent Developments
- 10.21 SanRex
  - 10.21.1 SanRex Basic Information

- 10.21.2 SanRex Power Semiconductor in Data Center Product Overview
- 10.21.3 SanRex Power Semiconductor in Data Center Product Market Performance
- 10.21.4 SanRex Business Overview
- 10.21.5 SanRex Recent Developments
- 10.22 Alpha and Omega Semiconductor
  - 10.22.1 Alpha and Omega Semiconductor Basic Information
  - 10.22.2 Alpha and Omega Semiconductor Power Semiconductor in Data Center Product Overview
  - 10.22.3 Alpha and Omega Semiconductor Power Semiconductor in Data Center Product Market Performance
  - 10.22.4 Alpha and Omega Semiconductor Business Overview
  - 10.22.5 Alpha and Omega Semiconductor Recent Developments
- 10.23 Sanken Electric
  - 10.23.1 Sanken Electric Basic Information
  - 10.23.2 Sanken Electric Power Semiconductor in Data Center Product Overview
  - 10.23.3 Sanken Electric Power Semiconductor in Data Center Product Market Performance
  - 10.23.4 Sanken Electric Business Overview
  - 10.23.5 Sanken Electric Recent Developments
- 10.24 Semtech
  - 10.24.1 Semtech Basic Information
  - 10.24.2 Semtech Power Semiconductor in Data Center Product Overview
  - 10.24.3 Semtech Power Semiconductor in Data Center Product Market Performance
  - 10.24.4 Semtech Business Overview
  - 10.24.5 Semtech Recent Developments
- 10.25 KEC Corporation
  - 10.25.1 KEC Corporation Basic Information
  - 10.25.2 KEC Corporation Power Semiconductor in Data Center Product Overview
  - 10.25.3 KEC Corporation Power Semiconductor in Data Center Product Market Performance
  - 10.25.4 KEC Corporation Business Overview
  - 10.25.5 KEC Corporation Recent Developments
- 10.26 PANJIT Group
  - 10.26.1 PANJIT Group Basic Information
  - 10.26.2 PANJIT Group Power Semiconductor in Data Center Product Overview
  - 10.26.3 PANJIT Group Power Semiconductor in Data Center Product Market Performance
  - 10.26.4 PANJIT Group Business Overview
  - 10.26.5 PANJIT Group Recent Developments

## 10.27 Nexperia

10.27.1 Nexperia Basic Information

10.27.2 Nexperia Power Semiconductor in Data Center Product Overview

10.27.3 Nexperia Power Semiconductor in Data Center Product Market Performance

10.27.4 Nexperia Business Overview

10.27.5 Nexperia Recent Developments

## 10.28 Vishay Intertechnology

10.28.1 Vishay Intertechnology Basic Information

10.28.2 Vishay Intertechnology Power Semiconductor in Data Center Product

### Overview

10.28.3 Vishay Intertechnology Power Semiconductor in Data Center Product Market

### Performance

10.28.4 Vishay Intertechnology Business Overview

10.28.5 Vishay Intertechnology Recent Developments

## 10.29 Zhuzhou CRRC Times Electric

10.29.1 Zhuzhou CRRC Times Electric Basic Information

10.29.2 Zhuzhou CRRC Times Electric Power Semiconductor in Data Center Product

### Overview

10.29.3 Zhuzhou CRRC Times Electric Power Semiconductor in Data Center Product

### Market Performance

10.29.4 Zhuzhou CRRC Times Electric Business Overview

10.29.5 Zhuzhou CRRC Times Electric Recent Developments

## 10.30 China Resources Microelectronics Limited

10.30.1 China Resources Microelectronics Limited Basic Information

10.30.2 China Resources Microelectronics Limited Power Semiconductor in Data

### Center Product Overview

10.30.3 China Resources Microelectronics Limited Power Semiconductor in Data

### Center Product Market Performance

10.30.4 China Resources Microelectronics Limited Business Overview

10.30.5 China Resources Microelectronics Limited Recent Developments

## **11 POWER SEMICONDUCTOR IN DATA CENTER MARKET FORECAST BY REGION**

11.1 Global Power Semiconductor in Data Center Market Size Forecast

11.2 Global Power Semiconductor in Data Center Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Power Semiconductor in Data Center Market Size Forecast by Country

11.2.3 Asia Pacific Power Semiconductor in Data Center Market Size Forecast by

## Region

11.2.4 South America Power Semiconductor in Data Center Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Power Semiconductor in Data Center by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

12.1 Global Power Semiconductor in Data Center Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Power Semiconductor in Data Center by Type (2026-2035)

12.1.2 Global Power Semiconductor in Data Center Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Power Semiconductor in Data Center by Type (2026-2035)

12.2 Global Power Semiconductor in Data Center Market Forecast by Application (2026-2035)

12.2.1 Global Power Semiconductor in Data Center Sales (K Units) Forecast by Application

12.2.2 Global Power Semiconductor in Data Center Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Power Semiconductor in Data Center Market Size by Type (M USD)

Table 4. Global Power Semiconductor in Data Center Market Size by Application

Table 5. Power Semiconductor in Data Center Market Size Comparison by Region (M USD)

Table 6. Global Power Semiconductor in Data Center Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Power Semiconductor in Data Center Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Power Semiconductor in Data Center Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Power Semiconductor in Data Center Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Power Semiconductor in Data Center as of 2025)

Table 11. Global Market Power Semiconductor in Data Center Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Power Semiconductor in Data Center Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Power Semiconductor in Data Center Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Power Semiconductor in Data Center Sales by Type (K Units)

Table 27. Global Power Semiconductor in Data Center Market Size by Type (M USD)

Table 28. Global Power Semiconductor in Data Center Sales (K Units) by Type (2020-2025)

Table 29. Global Power Semiconductor in Data Center Sales Market Share by Type (2020-2025)

Table 30. Global Power Semiconductor in Data Center Market Size (M USD) by Type (2020-2025)

Table 31. Global Power Semiconductor in Data Center Market Share by Type (2020-2025)

Table 32. Global Power Semiconductor in Data Center Price (USD/Unit) by Type (2020-2025)

Table 33. Global Power Semiconductor in Data Center Sales (K Units) by Application

Table 34. Global Power Semiconductor in Data Center Market Size by Application

Table 35. Global Power Semiconductor in Data Center Sales by Application (2020-2025) & (K Units)

Table 36. Global Power Semiconductor in Data Center Sales Market Share by Application (2020-2025)

Table 37. Global Power Semiconductor in Data Center Market Size by Application (2020-2025) & (M USD)

Table 38. Global Power Semiconductor in Data Center Market Share by Application (2020-2025)

Table 39. Global Power Semiconductor in Data Center Sales Growth Rate by Application (2020-2025)

Table 40. Global Power Semiconductor in Data Center Sales by Region (2020-2025) & (K Units)

Table 41. Global Power Semiconductor in Data Center Sales Market Share by Region (2020-2025)

Table 42. Global Power Semiconductor in Data Center Market Size by Region (2020-2025) & (M USD)

Table 43. Global Power Semiconductor in Data Center Market Size by Region (2020-2025)

Table 44. North America Power Semiconductor in Data Center Sales by Country (2020-2025) & (K Units)

Table 45. North America Power Semiconductor in Data Center Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Power Semiconductor in Data Center Sales by Country (2020-2025) & (K Units)

Table 47. Europe Power Semiconductor in Data Center Market Size by Country (2020-2025) & (M USD)

- Table 48. Asia Pacific Power Semiconductor in Data Center Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Power Semiconductor in Data Center Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Power Semiconductor in Data Center Sales by Country (2020-2025) & (K Units)
- Table 51. South America Power Semiconductor in Data Center Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Power Semiconductor in Data Center Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Power Semiconductor in Data Center Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Power Semiconductor in Data Center Production (K Units) by Region(2020-2025)
- Table 55. Global Power Semiconductor in Data Center Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Power Semiconductor in Data Center Revenue Market Share by Region (2020-2025)
- Table 57. Global Power Semiconductor in Data Center Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Power Semiconductor in Data Center Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Power Semiconductor in Data Center Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Power Semiconductor in Data Center Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Power Semiconductor in Data Center Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. STMicroelectronics Basic Information
- Table 63. STMicroelectronics Power Semiconductor in Data Center Product Overview
- Table 64. STMicroelectronics Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 65. STMicroelectronics Business Overview
- Table 66. STMicroelectronics SWOT Analysis
- Table 67. STMicroelectronics Recent Developments
- Table 68. Infineon Basic Information
- Table 69. Infineon Power Semiconductor in Data Center Product Overview
- Table 70. Infineon Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 71. Infineon Business Overview
- Table 72. Infineon SWOT Analysis
- Table 73. Infineon Recent Developments
- Table 74. Wolfspeed Basic Information
- Table 75. Wolfspeed Power Semiconductor in Data Center Product Overview
- Table 76. Wolfspeed Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Wolfspeed Business Overview
- Table 78. Wolfspeed SWOT Analysis
- Table 79. Wolfspeed Recent Developments
- Table 80. Rohm Basic Information
- Table 81. Rohm Power Semiconductor in Data Center Product Overview
- Table 82. Rohm Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Rohm Business Overview
- Table 84. Rohm Recent Developments
- Table 85. onsemi Basic Information
- Table 86. onsemi Power Semiconductor in Data Center Product Overview
- Table 87. onsemi Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. onsemi Business Overview
- Table 89. onsemi Recent Developments
- Table 90. BYD Semiconductor Basic Information
- Table 91. BYD Semiconductor Power Semiconductor in Data Center Product Overview
- Table 92. BYD Semiconductor Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. BYD Semiconductor Business Overview
- Table 94. BYD Semiconductor Recent Developments
- Table 95. Microchip (Microsemi) Basic Information
- Table 96. Microchip (Microsemi) Power Semiconductor in Data Center Product Overview
- Table 97. Microchip (Microsemi) Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Microchip (Microsemi) Business Overview
- Table 99. Microchip (Microsemi) Recent Developments
- Table 100. Mitsubishi Electric Basic Information
- Table 101. Mitsubishi Electric Power Semiconductor in Data Center Product Overview
- Table 102. Mitsubishi Electric Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Mitsubishi Electric Business Overview

Table 104. Mitsubishi Electric Recent Developments

Table 105. Semikron Danfoss Basic Information

Table 106. Semikron Danfoss Power Semiconductor in Data Center Product Overview

Table 107. Semikron Danfoss Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Semikron Danfoss Business Overview

Table 109. Semikron Danfoss Recent Developments

Table 110. Fuji Electric Basic Information

Table 111. Fuji Electric Power Semiconductor in Data Center Product Overview

Table 112. Fuji Electric Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Fuji Electric Business Overview

Table 114. Fuji Electric Recent Developments

Table 115. Navitas (GeneSiC) Basic Information

Table 116. Navitas (GeneSiC) Power Semiconductor in Data Center Product Overview

Table 117. Navitas (GeneSiC) Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. Navitas (GeneSiC) Business Overview

Table 119. Navitas (GeneSiC) Recent Developments

Table 120. Toshiba Basic Information

Table 121. Toshiba Power Semiconductor in Data Center Product Overview

Table 122. Toshiba Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. Toshiba Business Overview

Table 124. Toshiba Recent Developments

Table 125. Texas Instruments Basic Information

Table 126. Texas Instruments Power Semiconductor in Data Center Product Overview

Table 127. Texas Instruments Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 128. Texas Instruments Business Overview

Table 129. Texas Instruments Recent Developments

Table 130. San'an Optoelectronics Basic Information

Table 131. San'an Optoelectronics Power Semiconductor in Data Center Product Overview

Table 132. San'an Optoelectronics Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 133. San'an Optoelectronics Business Overview

Table 134. San'an Optoelectronics Recent Developments

Table 135. Littelfuse Basic Information

Table 136. Littelfuse Power Semiconductor in Data Center Product Overview

Table 137. Littelfuse Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 138. Littelfuse Business Overview

Table 139. Littelfuse Recent Developments

Table 140. CETC 55 Basic Information

Table 141. CETC 55 Power Semiconductor in Data Center Product Overview

Table 142. CETC 55 Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 143. CETC 55 Business Overview

Table 144. CETC 55 Recent Developments

Table 145. WeEn Semiconductors Basic Information

Table 146. WeEn Semiconductors Power Semiconductor in Data Center Product Overview

Table 147. WeEn Semiconductors Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 148. WeEn Semiconductors Business Overview

Table 149. WeEn Semiconductors Recent Developments

Table 150. BASiC Semiconductor Basic Information

Table 151. BASiC Semiconductor Power Semiconductor in Data Center Product Overview

Table 152. BASiC Semiconductor Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 153. BASiC Semiconductor Business Overview

Table 154. BASiC Semiconductor Recent Developments

Table 155. Renesas Electronics Basic Information

Table 156. Renesas Electronics Power Semiconductor in Data Center Product Overview

Table 157. Renesas Electronics Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 158. Renesas Electronics Business Overview

Table 159. Renesas Electronics Recent Developments

Table 160. Diodes Incorporated Basic Information

Table 161. Diodes Incorporated Power Semiconductor in Data Center Product Overview

Table 162. Diodes Incorporated Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 163. Diodes Incorporated Business Overview

Table 164. Diodes Incorporated Recent Developments

Table 165. SanRex Basic Information

Table 166. SanRex Power Semiconductor in Data Center Product Overview

Table 167. SanRex Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 168. SanRex Business Overview

Table 169. SanRex Recent Developments

Table 170. Alpha and Omega Semiconductor Basic Information

Table 171. Alpha and Omega Semiconductor Power Semiconductor in Data Center Product Overview

Table 172. Alpha and Omega Semiconductor Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 173. Alpha and Omega Semiconductor Business Overview

Table 174. Alpha and Omega Semiconductor Recent Developments

Table 175. Sanken Electric Basic Information

Table 176. Sanken Electric Power Semiconductor in Data Center Product Overview

Table 177. Sanken Electric Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 178. Sanken Electric Business Overview

Table 179. Sanken Electric Recent Developments

Table 180. Semtech Basic Information

Table 181. Semtech Power Semiconductor in Data Center Product Overview

Table 182. Semtech Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 183. Semtech Business Overview

Table 184. Semtech Recent Developments

Table 185. KEC Corporation Basic Information

Table 186. KEC Corporation Power Semiconductor in Data Center Product Overview

Table 187. KEC Corporation Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 188. KEC Corporation Business Overview

Table 189. KEC Corporation Recent Developments

Table 190. PANJIT Group Basic Information

Table 191. PANJIT Group Power Semiconductor in Data Center Product Overview

Table 192. PANJIT Group Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 193. PANJIT Group Business Overview

Table 194. PANJIT Group Recent Developments

Table 195. Nexperia Basic Information

Table 196. Nexperia Power Semiconductor in Data Center Product Overview

Table 197. Nexperia Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 198. Nexperia Business Overview

Table 199. Nexperia Recent Developments

Table 200. Vishay Intertechnology Basic Information

Table 201. Vishay Intertechnology Power Semiconductor in Data Center Product Overview

Table 202. Vishay Intertechnology Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 203. Vishay Intertechnology Business Overview

Table 204. Vishay Intertechnology Recent Developments

Table 205. Zhuzhou CRRC Times Electric Basic Information

Table 206. Zhuzhou CRRC Times Electric Power Semiconductor in Data Center Product Overview

Table 207. Zhuzhou CRRC Times Electric Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 208. Zhuzhou CRRC Times Electric Business Overview

Table 209. Zhuzhou CRRC Times Electric Recent Developments

Table 210. China Resources Microelectronics Limited Basic Information

Table 211. China Resources Microelectronics Limited Power Semiconductor in Data Center Product Overview

Table 212. China Resources Microelectronics Limited Power Semiconductor in Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 213. China Resources Microelectronics Limited Business Overview

Table 214. China Resources Microelectronics Limited Recent Developments

Table 215. Global Power Semiconductor in Data Center Sales Forecast by Region (2026-2035) & (K Units)

Table 216. Global Power Semiconductor in Data Center Market Size Forecast by Region (2026-2035) & (M USD)

Table 217. North America Power Semiconductor in Data Center Sales Forecast by Country (2026-2035) & (K Units)

Table 218. North America Power Semiconductor in Data Center Market Size Forecast by Country (2026-2035) & (M USD)

Table 219. Europe Power Semiconductor in Data Center Sales Forecast by Country (2026-2035) & (K Units)

Table 220. Europe Power Semiconductor in Data Center Market Size Forecast by Country (2026-2035) & (M USD)

Table 221. Asia Pacific Power Semiconductor in Data Center Sales Forecast by Region

(2026-2035) & (K Units)

Table 222. Asia Pacific Power Semiconductor in Data Center Market Size Forecast by Region (2026-2035) & (M USD)

Table 223. South America Power Semiconductor in Data Center Sales Forecast by Country (2026-2035) & (K Units)

Table 224. South America Power Semiconductor in Data Center Market Size Forecast by Country (2026-2035) & (M USD)

Table 225. Middle East and Africa Power Semiconductor in Data Center Sales Forecast by Country (2026-2035) & (Units)

Table 226. Middle East and Africa Power Semiconductor in Data Center Market Size Forecast by Country (2026-2035) & (M USD)

Table 227. Global Power Semiconductor in Data Center Sales Forecast by Type (2026-2035) & (K Units)

Table 228. Global Power Semiconductor in Data Center Market Size Forecast by Type (2026-2035) & (M USD)

Table 229. Global Power Semiconductor in Data Center Price Forecast by Type (2026-2035) & (USD/Unit)

Table 230. Global Power Semiconductor in Data Center Sales (K Units) Forecast by Application (2026-2035)

Table 231. Global Power Semiconductor in Data Center Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Power Semiconductor in Data Center
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Power Semiconductor in Data Center Market Size (M USD), 2025-2035
- Figure 5. Global Power Semiconductor in Data Center Market Size (M USD) (2020-2035)
- Figure 6. Global Power Semiconductor in Data Center Sales (K Units) & (2020-2035)
- 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. Power Semiconductor in Data Center Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Power Semiconductor in Data Center Product Life Cycle
- Figure 13. Power Semiconductor in Data Center Sales Share by Manufacturers in 2025
- Figure 14. Global Power Semiconductor in Data Center Revenue Share by Manufacturers in 2025
- Figure 15. Power Semiconductor in Data Center Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Power Semiconductor in Data Center Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Power Semiconductor in Data Center Revenue in 2025
- Figure 18. Industry Chain Map of Power Semiconductor in Data Center
- Figure 19. Global Power Semiconductor in Data Center Market PEST Analysis
- Figure 20. Global Power Semiconductor in Data Center Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Power Semiconductor in Data Center Market Share by Type
- Figure 27. Sales Market Share of Power Semiconductor in Data Center by Type (2020-2025)
- Figure 28. Sales Market Share of Power Semiconductor in Data Center by Type in 2025

- Figure 29. Market Share of Power Semiconductor in Data Center by Type (2020-2025)
- Figure 30. Market Share of Power Semiconductor in Data Center by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Power Semiconductor in Data Center Market Share by Application
- Figure 33. Global Power Semiconductor in Data Center Sales Market Share by Application (2020-2025)
- Figure 34. Global Power Semiconductor in Data Center Sales Market Share by Application in 2025
- Figure 35. Global Power Semiconductor in Data Center Market Share by Application (2020-2025)
- Figure 36. Global Power Semiconductor in Data Center Market Share by Application in 2025
- Figure 37. Global Power Semiconductor in Data Center Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Power Semiconductor in Data Center Sales Market Share by Region (2020-2025)
- Figure 39. Global Power Semiconductor in Data Center Market Size by Region (2020-2025)
- Figure 40. North America Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Power Semiconductor in Data Center Sales Market Share by Country in 2024
- Figure 43. North America Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Power Semiconductor in Data Center Market Size by Country in 2024
- Figure 45. U.S. Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Power Semiconductor in Data Center Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Power Semiconductor in Data Center Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Power Semiconductor in Data Center Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Power Semiconductor in Data Center Market Size (Units) and Growth

Rate (2020-2025)

Figure 51. Europe Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Power Semiconductor in Data Center Sales Market Share by Country in 2024

Figure 53. Europe Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Power Semiconductor in Data Center Market Size by Country in 2024

Figure 55. Germany Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Power Semiconductor in Data Center Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Power Semiconductor in Data Center Sales Market Share by Region in 2024

Figure 67. Asia Pacific Power Semiconductor in Data Center Market Size by Region in 2024

Figure 68. China Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Power Semiconductor in Data Center Sales and Growth Rate (K Units)

Figure 79. South America Power Semiconductor in Data Center Sales Market Share by Country in 2024

Figure 80. South America Power Semiconductor in Data Center Market Size and Growth Rate (M USD)

Figure 81. South America Power Semiconductor in Data Center Market Size by Country in 2024

Figure 82. Brazil Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Power Semiconductor in Data Center Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Power Semiconductor in Data Center Sales Market

## Share by Region in 2024

Figure 90. Middle East and Africa Power Semiconductor in Data Center Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Power Semiconductor in Data Center Market Size by Region in 2024

Figure 92. Saudi Arabia Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Power Semiconductor in Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Power Semiconductor in Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Power Semiconductor in Data Center Production Market Share by Region (2020-2025)

Figure 103. North America Power Semiconductor in Data Center Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Power Semiconductor in Data Center Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Power Semiconductor in Data Center Production (K Units) Growth Rate (2020-2025)

Figure 106. China Power Semiconductor in Data Center Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Power Semiconductor in Data Center Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Power Semiconductor in Data Center Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Power Semiconductor in Data Center Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Power Semiconductor in Data Center Market Share Forecast by Type (2026-2035)

Figure 111. Global Power Semiconductor in Data Center Sales Forecast by Application (2026-2035)

Figure 112. Global Power Semiconductor in Data Center Market Share Forecast by Application (2026-2035)

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