

Global SiC Server Power Supply for AI Infrastructure Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global SiC Server Power Supply for AI Infrastructure market size was valued at US\$ 2365 million in 2025 and is forecast to a readjusted size of US\$ 9277 million by 2032 with a CAGR of 21.5% during review period.

SiC Server Power Supply for AI Infrastructure is a high-efficiency server power supply unit designed for AI computing infrastructure, using silicon carbide power devices and high-frequency magnetic components to support high rack power, dense server deployment, fast load fluctuation, and stable long-duration operation. Compared with conventional server power supplies, its advantages lie in lower switching loss, higher operating frequency, smaller passive component size, better heat dissipation, stronger dynamic load response, and higher suitability for high-density AI computing environments. In 2025, production was approximately 8.21 million units and the average price was USD 280 per unit. The industry's capacity utilization rate in 2025 was about 73% and the average gross margin was around 28%. Upstream, the key inputs include SiC MOSFETs, SiC diodes, PFC inductors, and LLC transformers, with representative suppliers including Infineon Technologies and Wolfspeed providing core wide-bandgap power devices and magnetic component support. The midstream segment focuses on high-efficiency server power topology design, power factor correction, resonant conversion, thermal structure optimization, electromagnetic compatibility control, digital monitoring, reliability testing, and automated assembly, which together determine conversion efficiency, power density, heat control, load response, and long-term operating reliability. Downstream, SiC Server Power Supply for AI Infrastructure is mainly used in general servers and GPU servers, where general servers emphasize stable power supply, energy efficiency, and system reliability, while GPU servers require

higher power density, faster dynamic response, stronger thermal control, and more reliable operation under high-computing-load conditions.

SiC Server Power Supply for AI Infrastructure will be mainly driven by the replacement cycle of GPU server power systems. As GPU servers move toward higher computing density and higher single-rack power, conventional server power supplies face greater pressure in efficiency, heat dissipation, dynamic response, and power density. SiC-based designs can reduce switching loss, support higher-frequency conversion, shrink passive components, and improve thermal performance, making them more suitable for next-generation GPU server platforms. The key demand will come from new AI server deployment and the upgrade of existing power architectures. Competition will focus on SiC device efficiency, high-frequency topology, magnetic component design, thermal structure, and long-term reliability verification.

This report is a detailed and comprehensive analysis for global SiC Server Power Supply for AI Infrastructure market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global SiC Server Power Supply for AI Infrastructure market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SiC Server Power Supply for AI Infrastructure market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SiC Server Power Supply for AI Infrastructure market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SiC Server Power Supply for AI Infrastructure market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for SiC Server Power Supply for AI Infrastructure

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global SiC Server Power Supply for AI Infrastructure market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Delta Electronics (China), LITEON Technology (China), AcBel Polytech (China), Shenzhen Honor Electronic (China), Aohai Technology (China), GreatWall (China), Gospower Electric (China), Dell (USA), Murata (Japan), Huntkey (China), etc.

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

Market Segmentation

SiC Server Power Supply for AI Infrastructure market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Power

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global SiC Server Power Supply for AI Infrastructure Consumption
Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Power

List Of Tables

LIST OF TABLES

Table 1. Global SiC Server Power Supply for AI Infrastructure Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global SiC Server Power Supply for AI Infrastructure Consumption Value by Output Voltage, (USD Million), 2021 & 2025 & 2032

Table 3. Global SiC Server Power Supply for AI Infrastructure Consumption Value by Input Power, (USD Million), 2021 & 2025 & 2032

Table 4. Global SiC Server Power Supply for AI Infrastructure Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Delta Electronics (China) Basic Information, Manufacturing Base and Competitors

Table 6. Delta Electronics (China) Major Business

Table 7. Delta Electronics (China) SiC Server Power Supply for AI Infrastructure Product and Services

Table 8. Delta Electronics (China) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Delta Electronics (China) Recent Developments/Updates

Table 10. LITEON Technology (China) Basic Information, Manufacturing Base and Competitors

Table 11. LITEON Technology (China) Major Business

Table 12. LITEON Technology (China) SiC Server Power Supply for AI Infrastructure Product and Services

Table 13. LITEON Technology (China) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. LITEON Technology (China) Recent Developments/Updates

Table 15. AcBel Polytech (China) Basic Information, Manufacturing Base and Competitors

Table 16. AcBel Polytech (China) Major Business

Table 17. AcBel Polytech (China) SiC Server Power Supply for AI Infrastructure Product and Services

Table 18. AcBel Polytech (China) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. AcBel Polytech (China) Recent Developments/Updates

Table 20. Shenzhen Honor Electronic (China) Basic Information, Manufacturing Base and Competitors

Table 21. Shenzhen Honor Electronic (China) Major Business

Table 22. Shenzhen Honor Electronic (China) SiC Server Power Supply for AI Infrastructure Product and Services

Table 23. Shenzhen Honor Electronic (China) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Shenzhen Honor Electronic (China) Recent Developments/Updates

Table 25. Aohai Technology (China) Basic Information, Manufacturing Base and Competitors

Table 26. Aohai Technology (China) Major Business

Table 27. Aohai Technology (China) SiC Server Power Supply for AI Infrastructure Product and Services

Table 28. Aohai Technology (China) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Aohai Technology (China) Recent Developments/Updates

Table 30. GreatWall (China) Basic Information, Manufacturing Base and Competitors

Table 31. GreatWall (China) Major Business

Table 32. GreatWall (China) SiC Server Power Supply for AI Infrastructure Product and Services

Table 33. GreatWall (China) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. GreatWall (China) Recent Developments/Updates

Table 35. Gospower Electric (China) Basic Information, Manufacturing Base and Competitors

Table 36. Gospower Electric (China) Major Business

Table 37. Gospower Electric (China) SiC Server Power Supply for AI Infrastructure Product and Services

Table 38. Gospower Electric (China) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Gospower Electric (China) Recent Developments/Updates

Table 40. Dell (USA) Basic Information, Manufacturing Base and Competitors

Table 41. Dell (USA) Major Business

Table 42. Dell (USA) SiC Server Power Supply for AI Infrastructure Product and Services

Table 43. Dell (USA) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Dell (USA) Recent Developments/Updates

Table 45. Murata (Japan) Basic Information, Manufacturing Base and Competitors

Table 46. Murata (Japan) Major Business

Table 47. Murata (Japan) SiC Server Power Supply for AI Infrastructure Product and Services

Table 48. Murata (Japan) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Murata (Japan) Recent Developments/Updates

Table 50. Huntkey (China) Basic Information, Manufacturing Base and Competitors

Table 51. Huntkey (China) Major Business

Table 52. Huntkey (China) SiC Server Power Supply for AI Infrastructure Product and Services

Table 53. Huntkey (China) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Huntkey (China) Recent Developments/Updates

Table 55. Intel (USA) Basic Information, Manufacturing Base and Competitors

Table 56. Intel (USA) Major Business

Table 57. Intel (USA) SiC Server Power Supply for AI Infrastructure Product and Services

Table 58. Intel (USA) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Intel (USA) Recent Developments/Updates

Table 60. Segotep (China) Basic Information, Manufacturing Base and Competitors

Table 61. Segotep (China) Major Business

Table 62. Segotep (China) SiC Server Power Supply for AI Infrastructure Product and Services

Table 63. Segotep (China) SiC Server Power Supply for AI Infrastructure Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Segotep (China) Recent Developments/Updates

Table 65. Global SiC Server Power Supply for AI Infrastructure Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 66. Global SiC Server Power Supply for AI Infrastructure Revenue by

Manufacturer (2021-2026) & (USD Million)

Table 67. Global SiC Server Power Supply for AI Infrastructure Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 68. Market Position of Manufacturers in SiC Server Power Supply for AI Infrastructure, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and SiC Server Power Supply for AI Infrastructure Production Site of Key Manufacturer

Table 70. SiC Server Power Supply for AI Infrastructure Market: Company Product Type Footprint

Table 71. SiC Server Power Supply for AI Infrastructure Market: Company Product Application Footprint

Table 72. SiC Server Power Supply for AI Infrastructure New Market Entrants and Barriers to Market Entry

Table 73. SiC Server Power Supply for AI Infrastructure Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global SiC Server Power Supply for AI Infrastructure Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global SiC Server Power Supply for AI Infrastructure Sales Quantity by Region (2021-2026) & (K Units)

Table 76. Global SiC Server Power Supply for AI Infrastructure Sales Quantity by Region (2027-2032) & (K Units)

Table 77. Global SiC Server Power Supply for AI Infrastructure Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global SiC Server Power Supply for AI Infrastructure Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global SiC Server Power Supply for AI Infrastructure Average Price by Region (2021-2026) & (US\$/Unit)

Table 80. Global SiC Server Power Supply for AI Infrastructure Average Price by Region (2027-2032) & (US\$/Unit)

Table 81. Global SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2021-2026) & (K Units)

Table 82. Global SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2027-2032) & (K Units)

Table 83. Global SiC Server Power Supply for AI Infrastructure Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global SiC Server Power Supply for AI Infrastructure Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global SiC Server Power Supply for AI Infrastructure Average Price by Type (2021-2026) & (US\$/Unit)

Table 86. Global SiC Server Power Supply for AI Infrastructure Average Price by Type (2027-2032) & (US\$/Unit)

Table 87. Global SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2021-2026) & (K Units)

Table 88. Global SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2027-2032) & (K Units)

Table 89. Global SiC Server Power Supply for AI Infrastructure Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global SiC Server Power Supply for AI Infrastructure Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global SiC Server Power Supply for AI Infrastructure Average Price by Application (2021-2026) & (US\$/Unit)

Table 92. Global SiC Server Power Supply for AI Infrastructure Average Price by Application (2027-2032) & (US\$/Unit)

Table 93. North America SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2021-2026) & (K Units)

Table 94. North America SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2027-2032) & (K Units)

Table 95. North America SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2021-2026) & (K Units)

Table 96. North America SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2027-2032) & (K Units)

Table 97. North America SiC Server Power Supply for AI Infrastructure Sales Quantity by Country (2021-2026) & (K Units)

Table 98. North America SiC Server Power Supply for AI Infrastructure Sales Quantity by Country (2027-2032) & (K Units)

Table 99. North America SiC Server Power Supply for AI Infrastructure Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America SiC Server Power Supply for AI Infrastructure Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2021-2026) & (K Units)

Table 102. Europe SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2027-2032) & (K Units)

Table 103. Europe SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2021-2026) & (K Units)

Table 104. Europe SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2027-2032) & (K Units)

Table 105. Europe SiC Server Power Supply for AI Infrastructure Sales Quantity by

Country (2021-2026) & (K Units)

Table 106. Europe SiC Server Power Supply for AI Infrastructure Sales Quantity by Country (2027-2032) & (K Units)

Table 107. Europe SiC Server Power Supply for AI Infrastructure Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe SiC Server Power Supply for AI Infrastructure Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2021-2026) & (K Units)

Table 110. Asia-Pacific SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2027-2032) & (K Units)

Table 111. Asia-Pacific SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2021-2026) & (K Units)

Table 112. Asia-Pacific SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2027-2032) & (K Units)

Table 113. Asia-Pacific SiC Server Power Supply for AI Infrastructure Sales Quantity by Region (2021-2026) & (K Units)

Table 114. Asia-Pacific SiC Server Power Supply for AI Infrastructure Sales Quantity by Region (2027-2032) & (K Units)

Table 115. Asia-Pacific SiC Server Power Supply for AI Infrastructure Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific SiC Server Power Supply for AI Infrastructure Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2021-2026) & (K Units)

Table 118. South America SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2027-2032) & (K Units)

Table 119. South America SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2021-2026) & (K Units)

Table 120. South America SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2027-2032) & (K Units)

Table 121. South America SiC Server Power Supply for AI Infrastructure Sales Quantity by Country (2021-2026) & (K Units)

Table 122. South America SiC Server Power Supply for AI Infrastructure Sales Quantity by Country (2027-2032) & (K Units)

Table 123. South America SiC Server Power Supply for AI Infrastructure Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America SiC Server Power Supply for AI Infrastructure Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2021-2026) & (K Units)

Table 126. Middle East & Africa SiC Server Power Supply for AI Infrastructure Sales Quantity by Type (2027-2032) & (K Units)

Table 127. Middle East & Africa SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2021-2026) & (K Units)

Table 128. Middle East & Africa SiC Server Power Supply for AI Infrastructure Sales Quantity by Application (2027-2032) & (K Units)

Table 129. Middle East & Africa SiC Server Power Supply for AI Infrastructure Sales Quantity by Country (2021-2026) & (K Units)

Table 130. Middle East & Africa SiC Server Power Supply for AI Infrastructure Sales Quantity by Country (2027-2032) & (K Units)

Table 131. Middle East & Africa SiC Server Power Supply for AI Infrastructure Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa SiC Server Power Supply for AI Infrastructure Consumption Value by Country (2027-2032) & (USD Million)

Table 133. SiC Server Power Supply for AI Infrastructure Raw Material

Table 134. Key Manufacturers of SiC Server Power Supply for AI Infrastructure Raw Materials

Table 135. SiC Server Power Supply for AI Infrastructure Typical Distributors

Table 136. SiC Server Power Supply for AI Infrastructure Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. SiC Server Power Supply for AI Infrastructure Picture

Figure 2. Global SiC Server Power Supply for AI Infrastructure Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global SiC Server Power Supply for AI Infrastructure Revenue Market Share by Type in 2025

Figure 4. Power

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