

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

<https://marketpublishers.com/r/G7809853DAC2EN.html>

Date: July 2026

Pages: 115

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

ID: G7809853DAC2EN

Abstracts

According to our (Global Info Research) latest study, the global AIDC SiC Server Power Supply 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.

AIDC SiC Server Power Supply is a high-efficiency power supply unit designed for AI data center power infrastructure, using silicon carbide power devices and high-frequency magnetic components to support high-density computing loads, fast dynamic response, improved conversion efficiency, and stable long-term operation. Compared with conventional data center power supplies, its advantages lie in lower switching loss, higher operating frequency, smaller passive component size, better heat dissipation, stronger load response, and higher suitability for GPU-intensive and mission-critical 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. The midstream segment focuses on high-efficiency 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, AIDC SiC Power Supply 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.

AIDC SiC Server Power Supply will be shaped by AI data centers moving toward higher rack power, faster load fluctuation, and stricter energy-efficiency requirements. In general servers, its value is reflected in stable conversion efficiency, lower heat pressure, and long-term operating reliability. In GPU servers, the demand is more concentrated on high power density, rapid dynamic response, and continuous operation under intensive computing loads. As AI infrastructure shifts from scale expansion to power efficiency and thermal control, competition will focus on SiC device performance, high-frequency topology design, magnetic component optimization, system integration, and reliability verification. Suppliers with stronger power architecture capability will gain deeper customer recognition.

This report is a detailed and comprehensive analysis for global AIDC SiC Server Power Supply 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 AIDC SiC Server Power Supply market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AIDC SiC Server Power Supply 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 AIDC SiC Server Power Supply 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 AIDC SiC Server Power Supply 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:

Global AIDC SiC Server Power Supply Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2...

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

To assess the growth potential for AIDC SiC Server Power Supply

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 AIDC SiC Server Power Supply 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

AIDC SiC Server Power Supply 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 AIDC SiC Server Power Supply Consumption Value by Type:
2021 Versus 2025 Versus 2032

1.3.2 Power

List Of Tables

LIST OF TABLES

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

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

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

Table 4. Global AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 8. Delta Electronics (China) AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 13. LITEON Technology (China) AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 18. AcBel Polytech (China) AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 23. Shenzhen Honor Electronic (China) AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 28. Aohai Technology (China) AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 33. GreatWall (China) AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 38. Gospower Electric (China) AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 43. Dell (USA) AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 48. Murata (Japan) AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 53. Huntkey (China) AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 58. Intel (USA) AIDC SiC Server Power Supply 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) AIDC SiC Server Power Supply Product and Services

Table 63. Segotep (China) AIDC SiC Server Power Supply 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 AIDC SiC Server Power Supply Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 66. Global AIDC SiC Server Power Supply Revenue by Manufacturer (2021-2026) & (USD Million)

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

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

Table 69. Head Office and AIDC SiC Server Power Supply Production Site of Key Manufacturer

Table 70. AIDC SiC Server Power Supply Market: Company Product Type Footprint

Table 71. AIDC SiC Server Power Supply Market: Company Product Application Footprint

Table 72. AIDC SiC Server Power Supply New Market Entrants and Barriers to Market Entry

Table 73. AIDC SiC Server Power Supply Mergers, Acquisition, Agreements, and Collaborations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 91. Global AIDC SiC Server Power Supply Average Price by Application

(2021-2026) & (US\$/Unit)

Table 92. Global AIDC SiC Server Power Supply Average Price by Application

(2027-2032) & (US\$/Unit)

Table 93. North America AIDC SiC Server Power Supply Sales Quantity by Type

(2021-2026) & (K Units)

Table 94. North America AIDC SiC Server Power Supply Sales Quantity by Type

(2027-2032) & (K Units)

Table 95. North America AIDC SiC Server Power Supply Sales Quantity by Application

(2021-2026) & (K Units)

Table 96. North America AIDC SiC Server Power Supply Sales Quantity by Application

(2027-2032) & (K Units)

Table 97. North America AIDC SiC Server Power Supply Sales Quantity by Country

(2021-2026) & (K Units)

Table 98. North America AIDC SiC Server Power Supply Sales Quantity by Country

(2027-2032) & (K Units)

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

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

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

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

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

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

Table 105. Europe AIDC SiC Server Power Supply Sales Quantity by Country (2021-2026) & (K Units)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 130. Middle East & Africa AIDC SiC Server Power Supply Sales Quantity by

Country (2027-2032) & (K Units)

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

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

Table 133. AIDC SiC Server Power Supply Raw Material

Table 134. Key Manufacturers of AIDC SiC Server Power Supply Raw Materials

Table 135. AIDC SiC Server Power Supply Typical Distributors

Table 136. AIDC SiC Server Power Supply Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. AIDC SiC Server Power Supply Picture

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

Figure 3. Global AIDC SiC Server Power Supply Revenue Market Share by Type in 2025

Figure 4. Power

I would like to order

Product name: Global AIDC SiC Server Power Supply Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/G7809853DAC2EN.html>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G7809853DAC2EN.html>