

# Global DC Brushless Server Cooling Fan Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global DC Brushless Server Cooling Fan market size is expected to reach \$ 11512 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

DC brushless server cooling fan is a BLDC-motor-driven fan used inside servers, AI servers, storage systems, networking equipment, and data-center IT hardware. It is typically supplied as an axial fan, blower, or fan module, integrating an impeller, bearings, motor driver IC, PWM speed control, and tachometer feedback. Its core functions are to deliver high airflow, high static pressure, low power consumption, long service life, and stable thermal management for CPUs, GPUs, memory, power supplies, chassis airflow, and high-density server nodes.

The upstream supply chain mainly covers plastic frames/blades, dual ball bearings, motors and driver/control electronics, and cable/connector assemblies. Downstream customers are server OEMs/ODMs, cloud and hyperscale data centers, storage vendors, and edge-server suppliers.

In 2025, global DC brushless server cooling fan for data center servers production reached approximately 400 million units, with an average global market price is \$20 per unit.

Global DC brushless server cooling fans are critical air-cooling components used in servers, AI computing nodes, storage systems, network switches and data-center racks. They typically use BLDC motors, PWM speed control, tachometer feedback, fault alarms, high-static-pressure impellers and long-life bearing structures to provide forced cooling for CPUs, GPUs, memory modules, power supplies, SSDs, network cards, motherboard chipsets and heat sinks. Compared with ordinary DC fans, server-grade

DC brushless fans place much greater emphasis on high speed, high static pressure, continuous-duty reliability, redundant control, low power consumption and system communication. Their operating environment is typically 24/7 high-load service, requiring strong performance in lifetime, vibration, acoustic control, temperature resistance, bearing stability and failure-warning capability.

In terms of industry trends, DC brushless server cooling fans are moving toward higher static pressure, higher efficiency, intelligent control, modular design, lower noise and closer coordination with liquid cooling. AI servers and GPU servers are increasing rack and chassis power density, while internal airflow resistance is becoming higher, so fans are no longer judged only by airflow volume; static-pressure output under high-impedance airflow paths, PWM closed-loop control, fast thermal response and multi-fan coordination are becoming more important. Liquid cooling will not fully replace fans: in direct-to-chip or hybrid cooling architectures, cold plates may remove most CPU/GPU heat, but memory, power supplies, storage, networking modules, motherboard components and rack residual heat still require auxiliary airflow. Therefore, product upgrading is shifting from standalone fan performance toward system-level optimization with BMC control, temperature sensors, fan walls, ducting, heat sinks and rack-level thermal management. Data-center electricity demand is still rising quickly, and the IEA expects global data-center electricity consumption to nearly double to around 945TWh by 2030, reflecting long-term demand for efficient cooling components in high-density computing infrastructure.

The main growth drivers come from three areas. First, AI training, AI inference, cloud computing and high-performance computing are raising server power density, creating stronger requirements for high static pressure, high speed, rapid response and long service life; the IEA also reported that data-center electricity demand rose by 17% in 2025, with AI-focused data centers growing even faster. Second, data-center operators are increasingly focused on energy efficiency and total cost of ownership, and because fan power is strongly related to rotational speed, BLDC motor efficiency, blade optimization, low-loss bearings, intelligent speed control and demand-based cooling are becoming key development directions. Third, server platforms are moving toward hot-swappable fan modules, N+1 redundancy, fault monitoring and predictive maintenance, pushing DC brushless server fans from simple cooling devices into reliability components with status feedback and system interaction. Overall, future competition in DC Brushless Server Cooling Fans will focus on motor efficiency, static-pressure capability, acoustic control, lifetime reliability, intelligent control interfaces and compatibility with high-density server thermal architectures.

This report studies the global DC Brushless Server Cooling Fan production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for DC Brushless Server Cooling Fan and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of DC Brushless Server Cooling Fan that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global DC Brushless Server Cooling Fan total production and demand, 2021-2032, (K Units)

Global DC Brushless Server Cooling Fan total production value, 2021-2032, (USD Million)

Global DC Brushless Server Cooling Fan production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global DC Brushless Server Cooling Fan consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: DC Brushless Server Cooling Fan domestic production, consumption, key domestic manufacturers and share

Global DC Brushless Server Cooling Fan production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global DC Brushless Server Cooling Fan production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global DC Brushless Server Cooling Fan production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global DC Brushless Server Cooling Fan market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Delta Electronics, NMB Technologies, Sanyo Denki, Sunonwealth Electric Machine Industry, Nidec Corporation, ADDA Corp, AVC Group, Ebmpapst, Pelonis Technologies, Mechatronics Fan Group, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World DC Brushless Server Cooling Fan market

### Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### Global DC Brushless Server Cooling Fan Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global DC Brushless Server Cooling Fan Market, Segmentation by Type:

Axial Fans

Centrifugal Fans

### Global DC Brushless Server Cooling Fan Market, Segmentation by Size:

40mm Class

60mm Class

80mm Class

120mm and Above

Global DC Brushless Server Cooling Fan Market, Segmentation by Application:

Data Centers and Servers

Telecommunications and Networking Equipment

Others

Companies Profiled:

Delta Electronics

NMB Technologies

Sanyo Denki

Sunonwealth Electric Machine Industry

Nidec Corporation

ADDA Corp

AVC Group

Ebmpapst

Pelonis Technologies

Mechatronics Fan Group

Sofasco

## YS TECH

### Key Questions Answered:

1. How big is the global DC Brushless Server Cooling Fan market?
2. What is the demand of the global DC Brushless Server Cooling Fan market?
3. What is the year over year growth of the global DC Brushless Server Cooling Fan market?
4. What is the production and production value of the global DC Brushless Server Cooling Fan market?
5. Who are the key producers in the global DC Brushless Server Cooling Fan market?
6. What are the growth factors driving the market demand?

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