

Global Supercapacitors for AI Server 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 Supercapacitors for AI Server market size was valued at US\$ 52.17 million in 2025 and is forecast to a readjusted size of US\$ 163 million by 2032 with a CAGR of 17.6% during review period.

In 2025, global Supercapacitors for AI Server capacity 20,000 k Pcs, sales reached approximately 19,500 k Pcs, with an average market price of around 2.6 USD/Pcs, industrial gross margin 37%.

AI Server Supercapacitors are moving from “board-level hold-up” into “rack-level power buffering.” AI training and inference behave like pulse loads: synchronized compute phases drive sharp power ramps and drops in very short intervals. If upstream distribution and UPS are sized to absorb every instantaneous peak, operators quickly run into overprovisioning, interconnect constraints, and power-quality risk.

Supercapacitors win on millisecond response and cycle endurance: instead of trying to provide long-duration backup, AI Server Supercapacitors locally absorb and release bursts so the rack’s grid-facing profile becomes smoother and more predictable—supporting higher rack power density and more deterministic deployment.

Technically, AI Server Supercapacitors split into EDLC and hybrid families (often positioned as lithium-ion capacitors in practice). EDLC emphasizes very high power density and extremely high cycle life for frequent transients; hybrids trade some pure power for higher usable energy in a constrained volume. Selection is not about “bigger capacitance,” but about system-level operating envelopes: usable voltage window and droop curve (usable energy), ESR and thermal rise (pulse current and heat limits), leakage/standby losses (steady-state efficiency), and life/consistency plus balancing

strategy (stack reliability). In AI racks, supercaps rarely appear as bare components—they are increasingly packaged into monitored modules or rack units and paired with charge/discharge and power-management control so they function as a “managed energy buffer” inside the power shelf.

The supply chain is best read as three layers. Upstream: electrode materials (activated carbon and additives), electrolytes, and aluminum housings/current collectors. Midstream: cell-to-module-to-system integration—balancing, protection, thermal design, telemetry, and interface/firmware. Downstream: server PSU/power-shelf ecosystems and rack-scale platforms. Key players can be grouped into (i) system-facing power and rack infrastructure suppliers who deliver supercap-based buffering as deployable subsystems, and (ii) component suppliers with broad EDLC/hybrid portfolios and proven consistency and high-temperature life. As narrow-range 48V DC buses and open-rack interfaces continue to converge, AI Server Supercapacitors are shifting from an optional add-on into a platform engineering capability.

A recent deployment signal illustrates the direction without forcing a “deal headline”: in October 2025, a leading hyperscaler publicly described its first at-scale production cluster exceeding 4,600 GB300 NVL72 rack-scale systems. On the platform side, the GB300 power shelf design explicitly dedicates substantial volume to capacitor-based energy storage and uses charge management to deliver fast rack-level power smoothing—exactly the operating space where AI Server Supercapacitors create value. In parallel, next-generation AI-factory 800V DC reference architectures are explicitly incorporating supercapacitors for fast-cycle backup/buffering. Going forward, the upside for AI Server Supercapacitors is increasingly “system monetization,” not mere component substitution: (1) power shaping evolves into power orchestration (ramp-rate control, predictable caps/floors); (2) architectures expand from 48V in-rack buffering toward higher-voltage DC ecosystems with sidecar/distributed buffers; (3) products become operational assets—observable, maintainable, and certifiable—where validation methods, telemetry, and interface standardization decide who gets designed in.

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

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

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

Global Supercapacitors for AI Server market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), 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 Supercapacitors for AI Server

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 Supercapacitors for AI Server 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 Eaton, Skeleton Technologies, Nippon Chemi-Con, Kyocera, Yageo, CAP-XX, LS Materials, Nantong Jianghai Capacitor, Fujian Torch Electron Technology, Hunan Aihua Group, etc.

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

Market Segmentation

Supercapacitors for AI Server 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

Electrostatic Double Layer Capacitor

Pseudocapacitor

Hybrid Capacitor

Market segment by Voltage

2.5V

2.7V

Market segment by Application

GPU Server

ASIC Server

FPGA Server

Others

Major players covered

Eaton

Skeleton Technologies

Nippon Chemi-Con

Kyocera

Yageo

CAP-XX

LS Materials

Nantong Jianghai Capacitor

Fujian Torch Electron Technology

Hunan Aihua Group

Shanghai Yongming Electronic

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Supercapacitors for AI Server product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Supercapacitors for AI Server, with price, sales quantity, revenue, and global market share of Supercapacitors for AI Server from 2021 to 2026.

Chapter 3, the Supercapacitors for AI Server competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Supercapacitors for AI Server breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Supercapacitors for AI Server market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Supercapacitors for AI Server.

Chapter 14 and 15, to describe Supercapacitors for AI Server sales channel, distributors, customers, research findings and conclusion.

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 Supercapacitors for AI Server Consumption Value by Type:
2021 Versus 2025 Versus 2032

1.3.2 Electrostatic Double Layer Capacitor

1.3.3 Pseudocapacitor

1.3.4 Hybrid Capacitor

1.4 Market Analysis by Voltage

1.4.1 Overview: Global Supercapacitors for AI Server Consumption Value by Voltage:
2021 Versus 2025 Versus 2032

1.4.2 2.5V

1.4.3 2.7V

1.5 Market Analysis by Application

1.5.1 Overview: Global Supercapacitors for AI Server Consumption Value by
Application: 2021 Versus 2025 Versus 2032

1.5.2 GPU Server

1.5.3 ASIC Server

1.5.4 FPGA Server

1.5.5 Others

1.6 Global Supercapacitors for AI Server Market Size & Forecast

1.6.1 Global Supercapacitors for AI Server Consumption Value (2021 & 2025 & 2032)

1.6.2 Global Supercapacitors for AI Server Sales Quantity (2021-2032)

1.6.3 Global Supercapacitors for AI Server Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Eaton

2.1.1 Eaton Details

2.1.2 Eaton Major Business

2.1.3 Eaton Supercapacitors for AI Server Product and Services

2.1.4 Eaton Supercapacitors for AI Server Sales Quantity, Average Price, Revenue,
Gross Margin and Market Share (2021-2026)

2.1.5 Eaton Recent Developments/Updates

2.2 Skeleton Technologies

- 2.2.1 Skeleton Technologies Details
- 2.2.2 Skeleton Technologies Major Business
- 2.2.3 Skeleton Technologies Supercapacitors for AI Server Product and Services
- 2.2.4 Skeleton Technologies Supercapacitors for AI Server Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 Skeleton Technologies Recent Developments/Updates
- 2.3 Nippon Chemi-Con
 - 2.3.1 Nippon Chemi-Con Details
 - 2.3.2 Nippon Chemi-Con Major Business
 - 2.3.3 Nippon Chemi-Con Supercapacitors for AI Server Product and Services
 - 2.3.4 Nippon Chemi-Con Supercapacitors for AI Server Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Nippon Chemi-Con Recent Developments/Updates
- 2.4 Kyocera
 - 2.4.1 Kyocera Details
 - 2.4.2 Kyocera Major Business
 - 2.4.3 Kyocera Supercapacitors for AI Server Product and Services
 - 2.4.4 Kyocera Supercapacitors for AI Server Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Kyocera Recent Developments/Updates
- 2.5 Yageo
 - 2.5.1 Yageo Details
 - 2.5.2 Yageo Major Business
 - 2.5.3 Yageo Supercapacitors for AI Server Product and Services
 - 2.5.4 Yageo Supercapacitors for AI Server Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Yageo Recent Developments/Updates
- 2.6 CAP-XX
 - 2.6.1 CAP-XX Details
 - 2.6.2 CAP-XX Major Business
 - 2.6.3 CAP-XX Supercapacitors for AI Server Product and Services
 - 2.6.4 CAP-XX Supercapacitors for AI Server Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 CAP-XX Recent Developments/Updates
- 2.7 LS Materials
 - 2.7.1 LS Materials Details
 - 2.7.2 LS Materials Major Business
 - 2.7.3 LS Materials Supercapacitors for AI Server Product and Services
 - 2.7.4 LS Materials Supercapacitors for AI Server Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 LS Materials Recent Developments/Updates

2.8 Nantong Jianghai Capacitor

2.8.1 Nantong Jianghai Capacitor Details

2.8.2 Nantong Jianghai Capacitor Major Business

2.8.3 Nantong Jianghai Capacitor Supercapacitors for AI Server Product and Services

2.8.4 Nantong Jianghai Capacitor Supercapacitors for AI Server Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Nantong Jianghai Capacitor Recent Developments/Updates

2.9 Fujian Torch Electron Technology

2.9.1 Fujian Torch Electron Technology Details

2.9.2 Fujian Torch Electron Technology Major Business

2.9.3 Fujian Torch Electron Technology Supercapacitors for AI Server Product and Services

2.9.4 Fujian Torch Electron Technology Supercapacitors for AI Server Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Fujian Torch Electron Technology Recent Developments/Updates

2.10 Hunan Aihua Group

2.10.1 Hunan Aihua Group Details

2.10.2 Hunan Aihua Group Major Business

2.10.3 Hunan Aihua Group Supercapacitors for AI Server Product and Services

2.10.4 Hunan Aihua Group Supercapacitors for AI Server Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Hunan Aihua Group Recent Developments/Updates

2.11 Shanghai Yongming Electronic

2.11.1 Shanghai Yongming Electronic Details

2.11.2 Shanghai Yongming Electronic Major Business

2.11.3 Shanghai Yongming Electronic Supercapacitors for AI Server Product and Services

2.11.4 Shanghai Yongming Electronic Supercapacitors for AI Server Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Shanghai Yongming Electronic Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SUPERCAPACITORS FOR AI SERVER BY MANUFACTURER

3.1 Global Supercapacitors for AI Server Sales Quantity by Manufacturer (2021-2026)

3.2 Global Supercapacitors for AI Server Revenue by Manufacturer (2021-2026)

3.3 Global Supercapacitors for AI Server Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Supercapacitors for AI Server by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Supercapacitors for AI Server Manufacturer Market Share in 2025

3.4.3 Top 6 Supercapacitors for AI Server Manufacturer Market Share in 2025

3.5 Supercapacitors for AI Server Market: Overall Company Footprint Analysis

3.5.1 Supercapacitors for AI Server Market: Region Footprint

3.5.2 Supercapacitors for AI Server Market: Company Product Type Footprint

3.5.3 Supercapacitors for AI Server Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Supercapacitors for AI Server Market Size by Region

4.1.1 Global Supercapacitors for AI Server Sales Quantity by Region (2021-2032)

4.1.2 Global Supercapacitors for AI Server Consumption Value by Region (2021-2032)

4.1.3 Global Supercapacitors for AI Server Average Price by Region (2021-2032)

4.2 North America Supercapacitors for AI Server Consumption Value (2021-2032)

4.3 Europe Supercapacitors for AI Server Consumption Value (2021-2032)

4.4 Asia-Pacific Supercapacitors for AI Server Consumption Value (2021-2032)

4.5 South America Supercapacitors for AI Server Consumption Value (2021-2032)

4.6 Middle East & Africa Supercapacitors for AI Server Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Supercapacitors for AI Server Sales Quantity by Type (2021-2032)

5.2 Global Supercapacitors for AI Server Consumption Value by Type (2021-2032)

5.3 Global Supercapacitors for AI Server Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Supercapacitors for AI Server Sales Quantity by Application (2021-2032)

6.2 Global Supercapacitors for AI Server Consumption Value by Application (2021-2032)

6.3 Global Supercapacitors for AI Server Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Supercapacitors for AI Server Sales Quantity by Type (2021-2032)
- 7.2 North America Supercapacitors for AI Server Sales Quantity by Application (2021-2032)
- 7.3 North America Supercapacitors for AI Server Market Size by Country
 - 7.3.1 North America Supercapacitors for AI Server Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Supercapacitors for AI Server Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Supercapacitors for AI Server Sales Quantity by Type (2021-2032)
- 8.2 Europe Supercapacitors for AI Server Sales Quantity by Application (2021-2032)
- 8.3 Europe Supercapacitors for AI Server Market Size by Country
 - 8.3.1 Europe Supercapacitors for AI Server Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Supercapacitors for AI Server Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Supercapacitors for AI Server Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Supercapacitors for AI Server Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Supercapacitors for AI Server Market Size by Region
 - 9.3.1 Asia-Pacific Supercapacitors for AI Server Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Supercapacitors for AI Server Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Supercapacitors for AI Server Sales Quantity by Type (2021-2032)

10.2 South America Supercapacitors for AI Server Sales Quantity by Application (2021-2032)

10.3 South America Supercapacitors for AI Server Market Size by Country

10.3.1 South America Supercapacitors for AI Server Sales Quantity by Country (2021-2032)

10.3.2 South America Supercapacitors for AI Server Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Supercapacitors for AI Server Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Supercapacitors for AI Server Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Supercapacitors for AI Server Market Size by Country

11.3.1 Middle East & Africa Supercapacitors for AI Server Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Supercapacitors for AI Server Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Supercapacitors for AI Server Market Drivers

12.2 Supercapacitors for AI Server Market Restraints

12.3 Supercapacitors for AI Server Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

- 12.4.2 Bargaining Power of Suppliers
- 12.4.3 Bargaining Power of Buyers
- 12.4.4 Threat of Substitutes
- 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Supercapacitors for AI Server and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Supercapacitors for AI Server
- 13.3 Supercapacitors for AI Server Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Supercapacitors for AI Server Typical Distributors
- 14.3 Supercapacitors for AI Server Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

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

Table 2. Global Supercapacitors for AI Server Consumption Value by Voltage, (USD Million), 2021 & 2025 & 2032

Table 3. Global Supercapacitors for AI Server Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Eaton Basic Information, Manufacturing Base and Competitors

Table 5. Eaton Major Business

Table 6. Eaton Supercapacitors for AI Server Product and Services

Table 7. Eaton Supercapacitors for AI Server Sales Quantity (K Pcs), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Eaton Recent Developments/Updates

Table 9. Skeleton Technologies Basic Information, Manufacturing Base and Competitors

Table 10. Skeleton Technologies Major Business

Table 11. Skeleton Technologies Supercapacitors for AI Server Product and Services

Table 12. Skeleton Technologies Supercapacitors for AI Server Sales Quantity (K Pcs), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Skeleton Technologies Recent Developments/Updates

Table 14. Nippon Chemi-Con Basic Information, Manufacturing Base and Competitors

Table 15. Nippon Chemi-Con Major Business

Table 16. Nippon Chemi-Con Supercapacitors for AI Server Product and Services

Table 17. Nippon Chemi-Con Supercapacitors for AI Server Sales Quantity (K Pcs), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Nippon Chemi-Con Recent Developments/Updates

Table 19. Kyocera Basic Information, Manufacturing Base and Competitors

Table 20. Kyocera Major Business

Table 21. Kyocera Supercapacitors for AI Server Product and Services

Table 22. Kyocera Supercapacitors for AI Server Sales Quantity (K Pcs), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Kyocera Recent Developments/Updates

Table 24. Yageo Basic Information, Manufacturing Base and Competitors

Table 25. Yageo Major Business

- Table 26. Yageo Supercapacitors for AI Server Product and Services
- Table 27. Yageo Supercapacitors for AI Server Sales Quantity (K Pcs), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 28. Yageo Recent Developments/Updates
- Table 29. CAP-XX Basic Information, Manufacturing Base and Competitors
- Table 30. CAP-XX Major Business
- Table 31. CAP-XX Supercapacitors for AI Server Product and Services
- Table 32. CAP-XX Supercapacitors for AI Server Sales Quantity (K Pcs), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 33. CAP-XX Recent Developments/Updates
- Table 34. LS Materials Basic Information, Manufacturing Base and Competitors
- Table 35. LS Materials Major Business
- Table 36. LS Materials Supercapacitors for AI Server Product and Services
- Table 37. LS Materials Supercapacitors for AI Server Sales Quantity (K Pcs), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 38. LS Materials Recent Developments/Updates
- Table 39. Nantong Jianghai Capacitor Basic Information, Manufacturing Base and Competitors
- Table 40. Nantong Jianghai Capacitor Major Business
- Table 41. Nantong Jianghai Capacitor Supercapacitors for AI Server Product and Services
- Table 42. Nantong Jianghai Capacitor Supercapacitors for AI Server Sales Quantity (K Pcs), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 43. Nantong Jianghai Capacitor Recent Developments/Updates
- Table 44. Fujian Torch Electron Technology Basic Information, Manufacturing Base and Competitors
- Table 45. Fujian Torch Electron Technology Major Business
- Table 46. Fujian Torch Electron Technology Supercapacitors for AI Server Product and Services
- Table 47. Fujian Torch Electron Technology Supercapacitors for AI Server Sales Quantity (K Pcs), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 48. Fujian Torch Electron Technology Recent Developments/Updates
- Table 49. Hunan Aihua Group Basic Information, Manufacturing Base and Competitors
- Table 50. Hunan Aihua Group Major Business
- Table 51. Hunan Aihua Group Supercapacitors for AI Server Product and Services
- Table 52. Hunan Aihua Group Supercapacitors for AI Server Sales Quantity (K Pcs), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 53. Hunan Aihua Group Recent Developments/Updates

Table 54. Shanghai Yongming Electronic Basic Information, Manufacturing Base and Competitors

Table 55. Shanghai Yongming Electronic Major Business

Table 56. Shanghai Yongming Electronic Supercapacitors for AI Server Product and Services

Table 57. Shanghai Yongming Electronic Supercapacitors for AI Server Sales Quantity (K Pcs), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 58. Shanghai Yongming Electronic Recent Developments/Updates

Table 59. Global Supercapacitors for AI Server Sales Quantity by Manufacturer (2021-2026) & (K Pcs)

Table 60. Global Supercapacitors for AI Server Revenue by Manufacturer (2021-2026) & (USD Million)

Table 61. Global Supercapacitors for AI Server Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 62. Market Position of Manufacturers in Supercapacitors for AI Server, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 63. Head Office and Supercapacitors for AI Server Production Site of Key Manufacturer

Table 64. Supercapacitors for AI Server Market: Company Product Type Footprint

Table 65. Supercapacitors for AI Server Market: Company Product Application Footprint

Table 66. Supercapacitors for AI Server New Market Entrants and Barriers to Market Entry

Table 67. Supercapacitors for AI Server Mergers, Acquisition, Agreements, and Collaborations

Table 68. Global Supercapacitors for AI Server Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 69. Global Supercapacitors for AI Server Sales Quantity by Region (2021-2026) & (K Pcs)

Table 70. Global Supercapacitors for AI Server Sales Quantity by Region (2027-2032) & (K Pcs)

Table 71. Global Supercapacitors for AI Server Consumption Value by Region (2021-2026) & (USD Million)

Table 72. Global Supercapacitors for AI Server Consumption Value by Region (2027-2032) & (USD Million)

Table 73. Global Supercapacitors for AI Server Average Price by Region (2021-2026) & (US\$/Unit)

Table 74. Global Supercapacitors for AI Server Average Price by Region (2027-2032) & (US\$/Unit)

Table 75. Global Supercapacitors for AI Server Sales Quantity by Type (2021-2026) & (K Pcs)

Table 76. Global Supercapacitors for AI Server Sales Quantity by Type (2027-2032) & (K Pcs)

Table 77. Global Supercapacitors for AI Server Consumption Value by Type (2021-2026) & (USD Million)

Table 78. Global Supercapacitors for AI Server Consumption Value by Type (2027-2032) & (USD Million)

Table 79. Global Supercapacitors for AI Server Average Price by Type (2021-2026) & (US\$/Unit)

Table 80. Global Supercapacitors for AI Server Average Price by Type (2027-2032) & (US\$/Unit)

Table 81. Global Supercapacitors for AI Server Sales Quantity by Application (2021-2026) & (K Pcs)

Table 82. Global Supercapacitors for AI Server Sales Quantity by Application (2027-2032) & (K Pcs)

Table 83. Global Supercapacitors for AI Server Consumption Value by Application (2021-2026) & (USD Million)

Table 84. Global Supercapacitors for AI Server Consumption Value by Application (2027-2032) & (USD Million)

Table 85. Global Supercapacitors for AI Server Average Price by Application (2021-2026) & (US\$/Unit)

Table 86. Global Supercapacitors for AI Server Average Price by Application (2027-2032) & (US\$/Unit)

Table 87. North America Supercapacitors for AI Server Sales Quantity by Type (2021-2026) & (K Pcs)

Table 88. North America Supercapacitors for AI Server Sales Quantity by Type (2027-2032) & (K Pcs)

Table 89. North America Supercapacitors for AI Server Sales Quantity by Application (2021-2026) & (K Pcs)

Table 90. North America Supercapacitors for AI Server Sales Quantity by Application (2027-2032) & (K Pcs)

Table 91. North America Supercapacitors for AI Server Sales Quantity by Country (2021-2026) & (K Pcs)

Table 92. North America Supercapacitors for AI Server Sales Quantity by Country (2027-2032) & (K Pcs)

Table 93. North America Supercapacitors for AI Server Consumption Value by Country

(2021-2026) & (USD Million)

Table 94. North America Supercapacitors for AI Server Consumption Value by Country (2027-2032) & (USD Million)

Table 95. Europe Supercapacitors for AI Server Sales Quantity by Type (2021-2026) & (K Pcs)

Table 96. Europe Supercapacitors for AI Server Sales Quantity by Type (2027-2032) & (K Pcs)

Table 97. Europe Supercapacitors for AI Server Sales Quantity by Application (2021-2026) & (K Pcs)

Table 98. Europe Supercapacitors for AI Server Sales Quantity by Application (2027-2032) & (K Pcs)

Table 99. Europe Supercapacitors for AI Server Sales Quantity by Country (2021-2026) & (K Pcs)

Table 100. Europe Supercapacitors for AI Server Sales Quantity by Country (2027-2032) & (K Pcs)

Table 101. Europe Supercapacitors for AI Server Consumption Value by Country (2021-2026) & (USD Million)

Table 102. Europe Supercapacitors for AI Server Consumption Value by Country (2027-2032) & (USD Million)

Table 103. Asia-Pacific Supercapacitors for AI Server Sales Quantity by Type (2021-2026) & (K Pcs)

Table 104. Asia-Pacific Supercapacitors for AI Server Sales Quantity by Type (2027-2032) & (K Pcs)

Table 105. Asia-Pacific Supercapacitors for AI Server Sales Quantity by Application (2021-2026) & (K Pcs)

Table 106. Asia-Pacific Supercapacitors for AI Server Sales Quantity by Application (2027-2032) & (K Pcs)

Table 107. Asia-Pacific Supercapacitors for AI Server Sales Quantity by Region (2021-2026) & (K Pcs)

Table 108. Asia-Pacific Supercapacitors for AI Server Sales Quantity by Region (2027-2032) & (K Pcs)

Table 109. Asia-Pacific Supercapacitors for AI Server Consumption Value by Region (2021-2026) & (USD Million)

Table 110. Asia-Pacific Supercapacitors for AI Server Consumption Value by Region (2027-2032) & (USD Million)

Table 111. South America Supercapacitors for AI Server Sales Quantity by Type (2021-2026) & (K Pcs)

Table 112. South America Supercapacitors for AI Server Sales Quantity by Type (2027-2032) & (K Pcs)

Table 113. South America Supercapacitors for AI Server Sales Quantity by Application (2021-2026) & (K Pcs)

Table 114. South America Supercapacitors for AI Server Sales Quantity by Application (2027-2032) & (K Pcs)

Table 115. South America Supercapacitors for AI Server Sales Quantity by Country (2021-2026) & (K Pcs)

Table 116. South America Supercapacitors for AI Server Sales Quantity by Country (2027-2032) & (K Pcs)

Table 117. South America Supercapacitors for AI Server Consumption Value by Country (2021-2026) & (USD Million)

Table 118. South America Supercapacitors for AI Server Consumption Value by Country (2027-2032) & (USD Million)

Table 119. Middle East & Africa Supercapacitors for AI Server Sales Quantity by Type (2021-2026) & (K Pcs)

Table 120. Middle East & Africa Supercapacitors for AI Server Sales Quantity by Type (2027-2032) & (K Pcs)

Table 121. Middle East & Africa Supercapacitors for AI Server Sales Quantity by Application (2021-2026) & (K Pcs)

Table 122. Middle East & Africa Supercapacitors for AI Server Sales Quantity by Application (2027-2032) & (K Pcs)

Table 123. Middle East & Africa Supercapacitors for AI Server Sales Quantity by Country (2021-2026) & (K Pcs)

Table 124. Middle East & Africa Supercapacitors for AI Server Sales Quantity by Country (2027-2032) & (K Pcs)

Table 125. Middle East & Africa Supercapacitors for AI Server Consumption Value by Country (2021-2026) & (USD Million)

Table 126. Middle East & Africa Supercapacitors for AI Server Consumption Value by Country (2027-2032) & (USD Million)

Table 127. Supercapacitors for AI Server Raw Material

Table 128. Key Manufacturers of Supercapacitors for AI Server Raw Materials

Table 129. Supercapacitors for AI Server Typical Distributors

Table 130. Supercapacitors for AI Server Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Supercapacitors for AI Server Picture

Figure 2. Global Supercapacitors for AI Server Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Supercapacitors for AI Server Revenue Market Share by Type in 2025

Figure 4. Electrostatic Double Layer Capacitor Examples

Figure 5. Pseudocapacitor Examples

Figure 6. Hybrid Capacitor Examples

Figure 7. Global Supercapacitors for AI Server Revenue by Voltage, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Supercapacitors for AI Server Revenue Market Share by Voltage in 2025

Figure 9. 2.5V Examples

Figure 10. 2.7V Examples

Figure 11. Global Supercapacitors for AI Server Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 12. Global Supercapacitors for AI Server Revenue Market Share by Application in 2025

Figure 13. GPU Server Examples

Figure 14. ASIC Server Examples

Figure 15. FPGA Server Examples

Figure 16. Others Examples

Figure 17. Global Supercapacitors for AI Server Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 18. Global Supercapacitors for AI Server Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 19. Global Supercapacitors for AI Server Sales Quantity (2021-2032) & (K Pcs)

Figure 20. Global Supercapacitors for AI Server Price (2021-2032) & (US\$/Unit)

Figure 21. Global Supercapacitors for AI Server Sales Quantity Market Share by Manufacturer in 2025

Figure 22. Global Supercapacitors for AI Server Revenue Market Share by Manufacturer in 2025

Figure 23. Producer Shipments of Supercapacitors for AI Server by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 24. Top 3 Supercapacitors for AI Server Manufacturer (Revenue) Market Share in 2025

Figure 25. Top 6 Supercapacitors for AI Server Manufacturer (Revenue) Market Share in 2025

Figure 26. Global Supercapacitors for AI Server Sales Quantity Market Share by Region (2021-2032)

Figure 27. Global Supercapacitors for AI Server Consumption Value Market Share by Region (2021-2032)

Figure 28. North America Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 29. Europe Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 30. Asia-Pacific Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 31. South America Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 32. Middle East & Africa Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 33. Global Supercapacitors for AI Server Sales Quantity Market Share by Type (2021-2032)

Figure 34. Global Supercapacitors for AI Server Consumption Value Market Share by Type (2021-2032)

Figure 35. Global Supercapacitors for AI Server Average Price by Type (2021-2032) & (US\$/Unit)

Figure 36. Global Supercapacitors for AI Server Sales Quantity Market Share by Application (2021-2032)

Figure 37. Global Supercapacitors for AI Server Revenue Market Share by Application (2021-2032)

Figure 38. Global Supercapacitors for AI Server Average Price by Application (2021-2032) & (US\$/Unit)

Figure 39. North America Supercapacitors for AI Server Sales Quantity Market Share by Type (2021-2032)

Figure 40. North America Supercapacitors for AI Server Sales Quantity Market Share by Application (2021-2032)

Figure 41. North America Supercapacitors for AI Server Sales Quantity Market Share by Country (2021-2032)

Figure 42. North America Supercapacitors for AI Server Consumption Value Market Share by Country (2021-2032)

Figure 43. United States Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 44. Canada Supercapacitors for AI Server Consumption Value (2021-2032) &

(USD Million)

Figure 45. Mexico Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 46. Europe Supercapacitors for AI Server Sales Quantity Market Share by Type (2021-2032)

Figure 47. Europe Supercapacitors for AI Server Sales Quantity Market Share by Application (2021-2032)

Figure 48. Europe Supercapacitors for AI Server Sales Quantity Market Share by Country (2021-2032)

Figure 49. Europe Supercapacitors for AI Server Consumption Value Market Share by Country (2021-2032)

Figure 50. Germany Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 51. France Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 52. United Kingdom Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 53. Russia Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 54. Italy Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 55. Asia-Pacific Supercapacitors for AI Server Sales Quantity Market Share by Type (2021-2032)

Figure 56. Asia-Pacific Supercapacitors for AI Server Sales Quantity Market Share by Application (2021-2032)

Figure 57. Asia-Pacific Supercapacitors for AI Server Sales Quantity Market Share by Region (2021-2032)

Figure 58. Asia-Pacific Supercapacitors for AI Server Consumption Value Market Share by Region (2021-2032)

Figure 59. China Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 60. Japan Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 61. South Korea Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 62. India Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 63. Southeast Asia Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 64. Australia Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 65. South America Supercapacitors for AI Server Sales Quantity Market Share by Type (2021-2032)

Figure 66. South America Supercapacitors for AI Server Sales Quantity Market Share by Application (2021-2032)

Figure 67. South America Supercapacitors for AI Server Sales Quantity Market Share by Country (2021-2032)

Figure 68. South America Supercapacitors for AI Server Consumption Value Market Share by Country (2021-2032)

Figure 69. Brazil Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 70. Argentina Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 71. Middle East & Africa Supercapacitors for AI Server Sales Quantity Market Share by Type (2021-2032)

Figure 72. Middle East & Africa Supercapacitors for AI Server Sales Quantity Market Share by Application (2021-2032)

Figure 73. Middle East & Africa Supercapacitors for AI Server Sales Quantity Market Share by Country (2021-2032)

Figure 74. Middle East & Africa Supercapacitors for AI Server Consumption Value Market Share by Country (2021-2032)

Figure 75. Turkey Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 76. Egypt Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 77. Saudi Arabia Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 78. South Africa Supercapacitors for AI Server Consumption Value (2021-2032) & (USD Million)

Figure 79. Supercapacitors for AI Server Market Drivers

Figure 80. Supercapacitors for AI Server Market Restraints

Figure 81. Supercapacitors for AI Server Market Trends

Figure 82. Porters Five Forces Analysis

Figure 83. Manufacturing Cost Structure Analysis of Supercapacitors for AI Server in 2025

Figure 84. Manufacturing Process Analysis of Supercapacitors for AI Server

Figure 85. Supercapacitors for AI Server Industrial Chain

Figure 86. Sales Channel: Direct to End-User vs Distributors

Figure 87. Direct Channel Pros & Cons

Figure 88. Indirect Channel Pros & Cons

Figure 89. Methodology

Figure 90. Research Process and Data Source

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