

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

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

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

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

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 AI Server Supercapacitors 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**

AI Server Supercapacitors 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 AI Server Supercapacitors product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the AI Server Supercapacitors 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 AI Server Supercapacitors 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 AI Server Supercapacitors.

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

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