

Global AI Server Power Cable Assembly Market Growth 2026-2032

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Abstracts

The global AI Server Power Cable Assembly market size is predicted to grow from US\$ 1197 million in 2025 to US\$ 5223 million in 2032; it is expected to grow at a CAGR of 23.5% from 2026 to 2032.

AI Server Power Cable Assembly refers to power cable assemblies, wire harnesses, GPU power cables, PSU power cables, rack power cables, busbar-to-server cables, and internal power distribution cables used in AI servers, GPU servers, AI accelerator systems, rack-scale computing systems, and high-density data center infrastructure. These products are used to transmit electrical power from power supply units, power shelves, busbars, power distribution modules, or server motherboards to GPUs, CPUs, accelerator cards, storage modules, fan modules, and other high-power server components. In this report, the market mainly includes GPU power cable assemblies, CPU power cable assemblies, PSU-to-board power cables, busbar power cable assemblies, ORV3 power cable assemblies, high-current DC power cable assemblies, AC input power cable assemblies, custom server wire harnesses, and overmolded power cable assemblies. The 2025 benchmark ASP is US\$18 / unit, shipment volume is 68,000k units, and average gross margin is 27%. The upstream industry chain includes copper conductors, high-temperature wires, insulation materials, cable jackets, terminals, crimp contacts, power connectors, housings, heat-shrink tubes, shielding materials, labels, testing fixtures, and cable management accessories. The midstream includes cable design, wire cutting, stripping, crimping, soldering, overmolding, harness assembly, electrical testing, pull-force testing, high-current testing, insulation testing, and customized production. The downstream includes AI servers, GPU servers, cloud computing data centers, artificial intelligence and high-performance computing, colocation data centers, enterprise IT infrastructure, telecom infrastructure, and server OEM/ODM manufacturing.

AI server power cable assemblies are becoming more important as AI servers require higher current delivery, denser internal layouts, and more reliable power routing for GPUs and accelerator modules. Compared with conventional server power cables, AI server power cable assemblies must support higher power density, better thermal resistance, safer connector mating, stable current sharing, and compact cable routing inside space-constrained chassis. Demand is supported by the growth of GPU servers, rack-scale AI systems, high-density data centers, and the shift toward higher-voltage and busbar-based power architectures. Product development is moving toward high-current connectors, lower contact resistance, improved cable flexibility, better airflow management, stronger flame resistance, more standardized OCP-compatible interfaces, and customized harness designs for different server platforms.

LP Information, Inc. (LPI) ' newest research report, the "AI Server Power Cable Assembly Industry Forecast" looks at past sales and reviews total world AI Server Power Cable Assembly sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Server Power Cable Assembly sales for 2026 through 2032. With AI Server Power Cable Assembly sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Server Power Cable Assembly industry.

This Insight Report provides a comprehensive analysis of the global AI Server Power Cable Assembly landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI Server Power Cable Assembly portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Server Power Cable Assembly market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Server Power Cable Assembly and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Server Power Cable Assembly.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Server Power Cable Assembly market by product type, application,

key manufacturers and key regions and countries.

Segmentation by Type:

GPU Power Cable Assembly

CPU Power Cable Assembly

PSU Power Cable Assembly

Segmentation by Current Rating:

Low-Current Power Cable Assembly

Medium-Current Power Cable Assembly

High-Current Power Cable Assembly

Ultra-High-Current Power Cable Assembly

Segmentation by End User:

Server OEM Use

Server ODM Use

Data Center Retrofit Use

System Integration Use

Segmentation by Application:

Cloud Computing

Artificial Intelligence & High-Performance Computing

Data Center Infrastructure

Telecommunications & Network Infrastructure

Enterprise IT Infrastructure

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Molex

TE Connectivity

Amphenol

BizLink

JPC Connectivity

Luxshare Technologies

Foxconn Interconnect Technology

Y.C. Cable

NFSB Tech

JPC Powertech

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Server Power Cable Assembly market?

What factors are driving AI Server Power Cable Assembly market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AI Server Power Cable Assembly market opportunities vary by end market size?

How does AI Server Power Cable Assembly break out by Type, by Application?

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