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Global AI Data Center BBU Power Supply 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 Data Center BBU Power Supply market size was valued at US$ 378 million in 2025 and is forecast to a readjusted size of US$ 906 million by 2032 with a CAGR of 9.0% during review period.

The AI Data Center BBU Power Supply is a distributed short-term energy storage and backup power supply device deployed near AI server racks, power racks, or DC buses. It mainly consists of lithium-ion battery modules, battery management systems, bidirectional DC conversion modules, control communication units, protection circuits, and thermal management structures. When there is an instantaneous interruption, voltage drop, or insufficient power supply in the mains, UPS, or power rack, BBU can quickly release electrical energy to provide power support for GPU, AI accelerator, and high-power server loads for seconds to minutes, allowing the equipment to maintain continuous operation, complete data storage, or wait for higher-level backup power to take over. Compared with centralized UPS, rack level BBUs are closer to computing loads, have shorter power supply paths, faster response speeds, and can be directly connected to rack DC busbars.

In 2025, global AI Data Center BBU Power Supply production reached approximately 993 K Units, with an average global market price of around US$ 370 per unit.

The AI Data Center BBU Power Supply is gradually upgrading from a backup device that only deals with power outages to a rack level dynamic energy storage node that combines fast backup, instantaneous power compensation, and voltage stability functions. Generative AI training and inference clusters use a large number of GPUs and accelerators, with high load power and fast changing speed, which may cause

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significant power fluctuations in a short period of time. Although traditional centralized UPS can bear long-term backup power for facilities, its ability to handle millisecond level power gaps is limited in situations where the load is far away and the power supply link is long; Rack level BBUs can quickly discharge close to the load, supplement power during peak periods, and reduce DC bus fluctuations. Panasonic has revealed that ultra large scale cloud service providers are promoting the configuration of BBUs per rack to cover power shortages during peak load periods and stabilize voltage. LITEON has also included high-efficiency BBUs in its core power product portfolio for AI data centers. The future market growth will mainly be driven by the continuous increase in AI rack power, the popularization of Open Rack architecture, the reduction of centralized UPS losses in data centers, and the demand for improving power supply availability. Products will develop towards higher voltage, higher power density, modularity, liquid cooling adaptation, intelligent status monitoring, and longer cycle life. The focus of competition will be on battery cell safety, charging and discharging efficiency, switching speed, thermal runaway protection, BMS algorithm, rack integration capability, and large-scale delivery capability. At the same time, the industry still faces challenges such as incomplete standardization of technical standards, long customer verification cycles, and strict safety requirements for high-power battery systems.

Report Scope

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

Global AI Data Center BBU Power Supply market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling

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prices (US$/Unit), 2021-2032

Global AI Data Center BBU 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 AI Data Center BBU 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:

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

To assess the growth potential for AI Data Center BBU 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 AI Data Center BBU 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, LITEON Technology, AES-KY, Dynapack, STL Technologies, Sysgration, Panasonic Energy, Skeleton, FSP Group, Highpower Technology, etc.

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

AI Data Center BBU 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.

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Market Segmentation

Market segment by Type

Below 3KW

3-5.5KW

5.5-10KW

Above 10KW

Market segment by Voltage

12V

24V

48V

400V

800V

Other

Market segment by Cell Specifications

18650 Cylindrical Lithium Battery

21700 Cylindrical Lithium Battery

Market segment by Application

AI Training Servers

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AI Inference Servers

AI Storage Systems

AI Network Infrastructure

Others

Major players covered

Delta Electronics

LITEON Technology

AES-KY

Dynapack

STL Technologies

Sysgration

Panasonic Energy

Skeleton

FSP Group

Highpower Technology

Shenzhen Megmeet Electrical

Advanced Energy

Market segment by region, regional analysis covers

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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)

Chapter Outline

Chapter 1, to describe AI Data Center BBU Power Supply product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Data Center BBU Power Supply, with price, sales quantity, revenue, and global market share of AI Data Center BBU Power Supply from 2021 to 2026.

Chapter 3, the AI Data Center BBU Power Supply competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Data Center BBU Power Supply 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 Data Center BBU Power Supply 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.

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Chapter 13, the key raw materials and key suppliers, and industry chain of AI Data Center BBU Power Supply.

Chapter 14 and 15, to describe AI Data Center BBU Power Supply sales channel, distributors, customers, research findings and conclusion.

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