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Global Data Center Power Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Data Center Power market size was valued at US$ 24252 million in 2025 and is forecast to a readjusted size of US$ 58603 million by 2032 with a CAGR of 14.6% during review period.

Data Center Power is best understood as an end-to-end energy pathway and fault-containment system rather than a single device. It spans the grid interface and distribution layer, the facility backbone built around UPS (double-conversion and modular systems), HVDC (?400V / 800V-class DC bus), and the emerging solid-state transformer (SST) concept for fewer conversion stages. It then extends into the IT layer through server-side AC-DC power shelves and board-level DC-DC conversion, plus cabinet busbars and rack power distribution. Between sub-second GPU transients and minute-level ride-through, BBU and supercapacitors (including hybrid supercaps) are increasingly used to shape peaks, stabilize rails, and bridge short interruptions. AI-driven ramp rates and load volatility are forcing Data Center Power decisions to prioritize dynamic stability, maintainability, and fault domain design?not just steady-state efficiency.

The vendor landscape is layered: system integrators providing ?grid-to-rack? solutions, power-shelf and module suppliers closer to the load, and a critical upstream base of power devices and passives. Schneider Electric, Eaton, Vertiv, Huawei Digital Power, Delta, ABB, and Siemens each position Data Center Power as a portfolio play across UPS, switchgear, prefabricated skids/eHouses, monitoring, and lifecycle services?while pushing deeper into HVDC and rack-level architectures. On the IT side, AC-DC/DC-DC shelves and rack ecosystems are advanced by suppliers such as Delta, LiteOn, and Flex, aligned with platform roadmaps. Supply chain emphasis has shifted to power semiconductors (including SiC/GaN), magnetics, high-reliability capacitors, and

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copper/aluminum bus infrastructure, with downstream execution dominated by standardized engineering, commissioning, and spares/service readiness. Commercially, procurement is moving toward capacity-reservation and production-line alignment: a major colocation operator recently signed a supply capacity agreement for UPS, low-voltage switchgear, and prefabricated skids to strengthen delivery certainty and supply-chain resilience?illustrating how Data Center Power is becoming ?capacity partnership? business rather than purely project-by-project delivery.

For professionals, Data Center Power is evaluated on a system scorecard: end-to-end efficiency (including part-load), power density (kW per rack / per footprint), transient response under step loads, redundancy topology (N+1/2N/distributed redundancy), selective protection and short-circuit behavior, harmonics and power factor, maintainability (hot-swap, bypass strategy, MTTR), and battery/capacitor safety and lifetime modeling. Technically, the direction is fewer conversion stages and higher DC backbone voltage. 800V-class HVDC is explicitly framed to support racks from ~100 kW toward 1 MW while reducing copper and conversion losses, and SST approaches are being explored to convert medium-voltage AC more directly into an HVDC bus. To handle ?spiky? AI loads, rack-level multi-timescale energy storage is becoming central: BBU for short ride-through and peak shaving, and supercapacitors/hybrid supercaps for second-scale and sub-second stabilization. Reliability events tied to UPS battery failure and cascading behavior have reinforced the need for stronger battery health management, fault isolation, and serviceability as first-class Data Center Power design objectives.

Looking forward, Data Center Power will see structural?not merely incremental?upgrades: (1) a faster shift toward higher-voltage DC backbones (?400V as a transition, 800V as the target for very high rack densities); (2) power conversion migrating out of the rack where possible, with AC-DC/DC-DC shelves, busbars, and board-level conversion competing on density, thermals, and reliability; (3) energy storage separating by timescale?batteries for minutes, supercaps/hybrid supercaps for seconds and sub-seconds?to deliver peak smoothing plus ride-through without overbuilding PSU redundancy; (4) prefabricated, modular delivery (skids/eHouses) to compress schedules and reduce on-site uncertainty; (5) stronger grid-friendliness requirements, integrating UPS/HVDC with microgrid controls, fast switching, ramp management, and power quality; (6) operations moving from monitoring to predictive and semi-autonomous optimization, focused on battery health, hot-spot detection at interconnects, and transient event analytics; and (7) upstream device and materials upgrades (SiC/GaN, magnetics, high-reliability passives) translating directly into higher density and better total lifecycle economics. Net result: competition in Data Center

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Power is shifting from standalone equipment specs to delivered rack power capability, transient resilience, and maintainability cost.

This report is a detailed and comprehensive analysis for global Data Center Power market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Data Center. 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 Data Center Power market size and forecasts, in consumption value ($ Million), 2021-2032

Global Data Center Power market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Data Center Power market size and forecasts, by Type and by Data Center, in consumption value ($ Million), 2021-2032

Global Data Center Power market shares of main players, in revenue ($ Million), 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 Data Center Power

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 Data Center Power market based on the following parameters - company overview, revenue, gross margin, product portfolio,

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geographical presence, and key developments. Key companies covered as a part of this study include Delta Electronics, LITEON Technology, Schneider, Eaton, Vertiv, ABB, GE, Riello, Legrand, Toshiba, etc.

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

Market segmentation

Data Center Power market is split by Type and by Data Center. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Data Center. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

UPS

HVDC

Solid-state Transformer (SST)

AC-DC

DC-DC

BBU

Supercapacitor

Market segment by Installation

External Rack

Internal Rack

Market segment by Customer

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Cloud Computing Company

Internet Company

Financial

Government

Manufacturing

Others

Market segment by Data Center

Onsite Data Centers

Colocation Facilities

Hyperscale Data Centers

Edge Data Centers

Market segment by players, this report covers

Delta Electronics

LITEON Technology

Schneider

Eaton

Vertiv

ABB

GE

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Riello

Legrand

Toshiba

Black Box

Generac Power Systems

Rittal

Mean Well

Bel Fuse

Sure Star Computer

GW Instek (Good Will Instrument)

Huawei

Kehua Data

Hangzhou Zhonhen Electric

Anhui Dynamic Power

Kstar Science & Technology

China XD Electric

TBEA

Hainan Jinpan Smart Technology

Shenzhen Megmeet Electrical

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Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

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

Chapter 2, to profile the top players of Data Center Power, with revenue, gross margin, and global market share of Data Center Power from 2021 to 2026.

Chapter 3, the Data Center Power competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Data Center, with consumption value and growth rate by Type, by Data Center, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Data Center Power market forecast, by regions, by Type and by Data Center, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Data Center Power.

Chapter 13, to describe Data Center Power research findings and conclusion.

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