

# Global Data Center Power Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Data Center Power market size is expected to reach \$ 58603 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032). 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 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 Power is shifting from standalone equipment specs to delivered rack power capability, transient resilience, and maintainability cost.

This report studies the global Data Center Power demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data

Center Power, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Data Center Power that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Data Center Power total market, 2021-2032, (USD Million)

Global Data Center Power total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Data Center Power total market, key domestic companies, and share, (USD Million)

Global Data Center Power revenue by player, revenue and market share 2021-2026, (USD Million)

Global Data Center Power total market by Type, CAGR, 2021-2032, (USD Million)

Global Data Center Power total market by Data Center, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Data Center Power market based on the following parameters - company overview, revenue, gross margin, product portfolio, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Data Center Power market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Data Center. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Data Center Power Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Data Center Power Market, Segmentation by Type:

UPS

HVDC

Solid-state Transformer (SST)

AC-DC

DC-DC

BBU

Supercapacitor

#### Global Data Center Power Market, Segmentation by Installation:

External Rack

Internal Rack

#### Global Data Center Power Market, Segmentation by Customer:

Cloud Computing Company

Internet Company

Financial

Government

Manufacturing

Others

Global Data Center Power Market, Segmentation by Data Center:

Onsite Data Centers

Colocation Facilities

Hyperscale Data Centers

Edge Data Centers

**Companies Profiled:**

Delta Electronics

LITEON Technology

Schneider

Eaton

Vertiv

ABB

GE

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

### Key Questions Answered

1. How big is the global Data Center Power market?
2. What is the demand of the global Data Center Power market?

3. What is the year over year growth of the global Data Center Power market?
4. What is the total value of the global Data Center Power market?
5. Who are the Major Players in the global Data Center Power market?
6. What are the growth factors driving the market demand?

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