

Data Center Power Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Data Center Power Market Summary

Introduction

Data center power solutions, including UPS, PDUs, and generators, ensure uninterrupted operations for critical IT infrastructure. The market is driven by rising data center demand, with global data creation projected to reach 180 zettabytes by 2025 (IDC). Sustainability trends and 5G-driven cloud expansion fuel growth. The global data center power market is projected to reach USD 15–23 billion in 2025, with a CAGR of 10%–15% through 2030.

Regional Analysis

North America: The U.S. leads with hyperscale data centers, while Canada focuses on sustainable power.

Europe: Germany and the UK drive growth through green energy policies.

Asia Pacific: China and India grow with cloud adoption, while Singapore emphasizes efficiency.

Rest of the World: Brazil and the Middle East expand through digital infrastructure investments.

Application Analysis

IT & Telecommunications: Expected growth of 10.2%–15.2%, driven by cloud computing. Trends focus on energy efficiency.

BFSI: Projected growth of 10.0%–15.0%, with demand for reliable power.

Government: Growth of 9.8%–14.8%, emphasizing secure infrastructure.

Energy, Healthcare, Retail, Others: Growth of 9.7%–14.7%, driven by digital transformation.

Component Analysis

Solutions: Expected growth of 10.0%–15.0%, including UPS and generators. Trends focus on sustainable designs.

Services: Projected growth of 9.8%–14.8%, covering maintenance and monitoring.

Key Market Players

Leading firms include Schneider Electric, offering efficient solutions; Eaton, specializing in UPS; Vertiv Group Corp., ABB, CyrusOne, GDS Holdings, Black Box, Generac Power Systems, General Electric, Equinix, Huawei Technologies, N1 Critical Technologies, Legrand, Raman Power Technologies, Rittal GmbH & Co. KG, and NTT Global Data Centers, innovating in green power.

Porter's Five Forces Analysis

Threat of New Entrants: Moderate, due to high capital requirements, though green tech firms can enter.

Threat of Substitutes: Low, as power solutions are critical for data centers.

Bargaining Power of Buyers: Moderate, with data centers seeking efficient, scalable systems.

Bargaining Power of Suppliers: Low, due to multiple component providers.

Competitive Rivalry: High, with competition on efficiency, sustainability, and cost.

Market Opportunities and Challenges

Opportunities:

Rising data creation (180 zettabytes) and 5G expansion drive demand.

Green power solutions and Asia's digital growth enhance sales.

Challenges:

High costs of sustainable systems limit adoption.

Regulatory compliance poses hurdles.

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