

Data Center Power - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 176 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

Report description:

The Data Center Power Market size is estimated at USD 26.00 billion in 2025, and is expected to reach USD 36.25 billion by 2030, at a CAGR of 6.87% during the forecast period (2025-2030).

The need for data centers has increased as the population grows increasingly connected and dependent on digital infrastructure. The amount of digital data produced globally is growing rapidly.

Key Highlights

- As networks evolve and coverage expands, 5G is expected to play the role of a major enabler of emerging edge use cases that need high-bandwidth and low-latency data transmission. Hyper-scale providers seek next-generation automation with power distribution units (PDUs) to evolve to accommodate the shift. With rising capacities and lower space, PDUs are being constructed with a focus on modularity and providing extra safety.
- The need to increase storage capacity has become critical for almost every major enterprise, as there is a continuous rise in data and its respective applications. According to the Edge Delta, the amount of data generated is around 120 zettabytes, which includes 337,080 petabytes (PB) of daily data generation.
- Further, the incorporation of AI, robotics, IoT, and other technologies is also expected to increase. This aspect will support the development of data centers in remote places. Critical components such as PDUs and UPS can assist data center operators in decreasing data outages and ensuring systematic management of the power requirement. As data centers grow in popularity, the use of backup power solutions is also expected to grow.
- The demand for DC power solutions is raising the need for installation and maintenance costs of the power components, including the power distribution units, switches, and UPS, in the DC environment, which can be a major challenge for the DC operators worldwide to adopt the advance DC power solutions due to their limited CAPEX budget, which could hinder the market's

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

growth in the future.

Data Center Power Market Trends

UPS to be the Fastest Growing Solution Type

- In the case of critical IT equipment, large data centers use centralized, high-capacity, and uninterruptible power supply systems for power protection. By integrating the most recent power protection technologies, these systems have reached a new level of reliability and efficiency. The most reliable type of data center, UPS, or online double conversion, is capable of handling different input conditions, including power from backup generators, while providing computer-grade output to the essential load.
- According to GSMA, the number of Internet of Things (IoT) connections is expected to grow from 2020 to 2030, with an expected total of 24 billion enterprise IoT connections in 2030, along with social media, which has increased the amount of data generated and stored worldwide exponentially. Demand for data center infrastructure and investment in new technologies and innovations to improve energy efficiency, reduce costs, and enhance performance has been stimulated by this growth of data generation.
- Further, the growing digitalization in Asia-Pacific is boosting the number of data centers in the region, thereby contributing to the demand for UPS in the region. Moreover, the growing innovations in UPS that meet the increasing demand are analyzed to boost the market growth rate.
- For instance, in July 2023, ABB India's Electrification business launched innovative UPS solutions for data centers. The first-of-its-kind sustainable UPS is part of the ABB EcoSolutions portfolio and complies with the ABB circularity framework. It was designed for high-density computing environments with the greatest efficiency rating and smallest footprint. This aligns with ABB Electrification's Mission to Zero for smart cities. It envisions a zero-emission reality for all and underscores its dedication to providing smart, safe, and sustainable power technologies to the worldwide data center industry.

Asia Pacific is Expected to Witness Growth

- The Chinese economy is witnessing a rapid digital transformation driven by the expansion of e-commerce, cloud computing, big data analytics, and artificial intelligence. This surge in digital activities led to a substantial increase in the number and size of data centers nationwide.
- Further, the Chinese government has recognized the strategic importance of data centers in supporting economic growth, innovation, and national development goals. As part of its "Internet Plus" initiative and the 14th Five-Year Plan, the government invests heavily in digital infrastructure, including data centers, and provides incentives to attract investments.
- The increasing reliance on internet services, including e-commerce, streaming media, online gaming, and social networking in Japan, has driven the need for high availability and reliability of data centers. As internet usage continues to grow, data center operators in Japan are investing in power solutions to ensure uninterrupted operations and prevent downtime within the data centers.
- In addition, urban centers in Japan are experiencing rapid population growth and urbanization, leading to increased demand for cloud services and global cloud service providers that generate big data represented by mega cloud platformers in major cities like Tokyo, Osaka, and Nagoya. Smart city initiatives, including deploying IoT sensors, smart grids, and energy management systems, require reliable data center power infrastructure to support their implementation. Hence, data center companies collaborate with power equipment companies to increase their market share.

Data Center Power Market Overview

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

The data center power market is fragmented, with multiple vendors present. Players are adopting various strategies, such as mergers and acquisitions, collaborations, and partnerships. Various initiatives are being undertaken by governmental bodies and private data center construction, creating intense competition. Key players are Schneider Electric SE, Fujitsu Ltd, Cisco Technology Inc., Eaton Corporation, and ABB Ltd.

- In October 2023, ABB Ltd announced that it had added ZincFive as an approved supplier for its UPS systems, offering nickel-zinc as a battery option alongside lithium-ion and lead-acid, which is now installed and supported as part of an ABB uninterruptible power supply system.
- In October 2023, Vertiv partnered with American Electric Power (AEP) and opened its Vertiv Customer Experience Center, featuring a microgrid power solution to help data centers address electrical grid capacity challenges. Vertiv 1.0-megawatt (MW) microgrid includes an Uninterruptible Power Supply (UPS) system, lithium-ion battery, system controls, and other critical components to cater to customer demand who are evaluating the role of microgrids and energy storage systems for their mission-critical power systems.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

1 INTRODUCTION

- 1.1 Study Assumptions and Market Definition
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET INSIGHTS

- 4.1 Market Overview
- 4.2 Industry Attractiveness - Porter's Five Forces Analysis
 - 4.2.1 Bargaining Power of Suppliers
 - 4.2.2 Bargaining Power of Buyers
 - 4.2.3 Threat of New Entrants
 - 4.2.4 Threat of Substitute Products and Services
 - 4.2.5 Degree of Competition

5 MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Rising Adoption of Mega Data Centers and Cloud Computing
 - 5.1.2 Increasing Demand to Reduce Operational Costs
- 5.2 Market Restraints
 - 5.2.1 High Cost of Installation and Maintenance
- 5.3 Legal and Regulatory Landscape for Industry

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5.4 Analysis of Power Requirements in Different Cases

6 TECHNOLOGY LANDSCAPE

- 6.1 Impact of Liquid Cooling on Data Center
- 6.2 H2 and Fuel Cell for Data Center
- 6.3 Sustainable Energy for Data Center

7 MARKET SEGMENTATION

- 7.1 By Type
 - 7.1.1 Solutions
 - 7.1.1.1 Power Distribution Unit
 - 7.1.1.2 UPS
 - 7.1.1.3 Busway
 - 7.1.1.4 Other Solutions
 - 7.1.2 Services
 - 7.1.2.1 Consulting
 - 7.1.2.2 System Integration
 - 7.1.2.3 Professional Services
- 7.2 By End-user Application
 - 7.2.1 Information Technology
 - 7.2.2 Manufacturing
 - 7.2.3 BFSI
 - 7.2.4 Government
 - 7.2.5 Telecom
 - 7.2.6 Other End-user Applications
- 7.3 By Data Center Size
 - 7.3.1 Small and Medium
 - 7.3.2 Large
- 7.4 By Geography***
 - 7.4.1 North America
 - 7.4.2 Europe
 - 7.4.3 Asia
 - 7.4.4 Australia and New Zealand
 - 7.4.5 Latin America
 - 7.4.6 Middle East and Africa

8 COMPETITIVE LANDSCAPE

- 8.1 Company Profiles*
 - 8.1.1 Schneider Electric SE
 - 8.1.2 Fujitsu Ltd
 - 8.1.3 Cisco Technology Inc.
 - 8.1.4 ABB Ltd
 - 8.1.5 Eaton Corporation
 - 8.1.6 PDU Experts UK Ltd
 - 8.1.7 Rittal GmbH & Co. KG
 - 8.1.8 Schleifenbauer Products BV
 - 8.1.9 Vertiv Holdings Co.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

8.1.10 Legrand SA

8.1.11 Black Box Corporation

9 INVESTMENT ANALYSIS

10 FUTURE OF THE MARKET

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Data Center Power - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 176 pages | Mordor Intelligence

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-07"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

