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Modular Electrical Rooms for Data Centers Market Forecasts to 2034 – Global Analysis By Product Type (Modular Electrical Rooms, Containerized Electrical Rooms, Skid-Mounted Electrical Rooms and Other Product Types), Electrical Components, Installation Type, Voltage Class, Integration Level, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Modular Electrical Rooms for Data Centers Market is accounted for $6.06 billion in 2026 and is expected to reach $15.4 billion by 2034 growing at a CAGR of 12.4% during the forecast period. Modular electrical rooms for data centers are prefabricated, self-contained power infrastructure units designed to house and integrate critical electrical systems such as switchgear, transformers, UPS, power distribution units, and monitoring equipment. Built off-site in controlled factory environments, these modules are delivered ready for rapid installation and commissioning, reducing construction time, cost, and on-site disruption. Modular electrical rooms support scalable and flexible data center expansion by allowing capacity to be added incrementally as demand grows. They enhance reliability, safety, and energy efficiency while ensuring compliance with electrical standards and enabling faster deployment of mission-critical data center facilities.

Market Dynamics:

Driver:

Rapid cloud infrastructure growth globally

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Enterprises are migrating workloads to cloud platforms, requiring scalable and resilient power systems. Hyperscale operators are expanding facilities to support AI, IoT, and real-time analytics workloads. Modular electrical rooms provide flexibility and faster deployment compared to traditional builds. Rising adoption of hybrid and multi-cloud strategies further amplifies demand for modular solutions. Consequently, global cloud expansion acts as a primary driver for market growth.

Restraint:

Limited skilled installation workforce

Installation requires expertise in electrical engineering, automation, and compliance standards. Limited availability of trained personnel delays projects and increases costs. Smaller enterprises face acute challenges in attracting and retaining talent. Workforce gaps also raise risks of mismanagement during critical installation phases. As a result, the shortage of skilled workforce remains a key restraint on adoption.

Opportunity:

Integration with smart grid technologies

Smart grids enable real-time monitoring, predictive maintenance, and efficient energy distribution. Data centers benefit from enhanced resilience and sustainability through grid-connected modular systems. Governments and enterprises are investing in smart grid infrastructure to support renewable integration. Modular electrical rooms align with these initiatives by providing scalable and adaptive power solutions. Therefore, smart grid integration acts as a catalyst for innovation and growth.

Threat:

Intense competition from local suppliers

Numerous regional vendors offer cost-effective modular solutions, challenging global players. Price wars and commoditization pressure margins, especially in emerging markets. Rapid technological innovation forces companies to continuously upgrade offerings. Smaller players leverage local expertise to compete with established brands. Collectively, competitive intensity remains a major threat to sustained growth.

Covid-19 Impact:

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The Covid-19 pandemic disrupted modular electrical room deployment due to supply chain delays and workforce restrictions. Lockdowns limited site access, slowing down installation and commissioning processes. Equipment shortages further delayed project timelines. However, rising digital adoption boosted long-term demand for resilient power infrastructure. Remote monitoring and automation gained traction as operators sought continuity during restrictions. Overall, Covid-19 acted as both a disruptor and a catalyst for innovation in modular electrical room practices.

The containerized electrical rooms segment is expected to be the largest during the forecast period

The containerized electrical rooms segment is expected to account for the largest market share during the forecast period as they provide flexibility and rapid deployment. Containerized solutions enable scalable power infrastructure that can be installed quickly across hyperscale and colocation facilities. Enterprises prefer containerized rooms for their modularity and ease of transport. Rising demand for cloud services intensifies adoption of containerized solutions. Technological advancements in prefabrication enhance efficiency and reduce installation timelines. Consequently, containerized electrical rooms dominate the market as the largest segment.

The telecom operators segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the telecom operators segment is predicted to witness the highest growth rate owing to rising demand for edge and 5G infrastructure. Telecom providers require modular electrical rooms to support distributed data centers and low-latency services. The proliferation of IoT and mobile-first applications amplifies reliance on telecom-driven facilities. Modular solutions provide scalability and resilience for rapidly expanding telecom networks. Investments in 5G rollouts further accelerate adoption of modular electrical rooms. Therefore, telecom operators emerge as the fastest-growing vertical in the market.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share as it hosts major hyperscale operators. The presence of Amazon Web Services, Microsoft Azure, Google Cloud, and Meta drives concentrated investment in modular electrical rooms. Strong regulatory frameworks and advanced energy

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infrastructure reinforce adoption of reliable modular solutions. Enterprises prioritize modular deployments to meet stringent compliance and uptime requirements. The region benefits from mature digital ecosystems and high internet penetration. Investments in renewable integration and AI-enabled monitoring further strengthen market leadership.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR due to explosive digital growth and infrastructure investments. Rising internet penetration and mobile-first economies fuel hyperscale and edge data center expansion. Governments in China, India, and Southeast Asia are investing heavily in digital and energy infrastructure. Rapid adoption of 5G and IoT applications intensifies reliance on modular electrical rooms. Subsidies and incentives for green energy accelerate adoption across enterprises and startups. Emerging SMEs also contribute significantly to rising demand for cost-effective modular solutions.

Key players in the market

Some of the key players in Modular Electrical Rooms for Data Centers Market include Schneider Electric SE, Siemens AG, ABB Ltd., Eaton Corporation plc, Vertiv Group Corp., General Electric Company (GE), Huawei Technologies Co., Ltd., Delta Electronics, Inc., Mitsubishi Electric Corporation, Legrand SA, Toshiba Corporation, Hitachi, Ltd., Cummins Inc., Caterpillar Inc. and Rolls-Royce Holdings plc.

Key Developments:

In November 2024, Eaton launched its next-generation 225 kVA and 250 kVA uninterruptible power supply (UPS) models with Li-Ion technology, designed for high-density data halls and modular applications. These new UPS systems offer a 40-60% smaller footprint and reduced weight, which are critical advantages for space-constrained modular electrical rooms.

In March 2024, ABB expanded its global partnership with Dell Technologies to integrate ABB's data center infrastructure management (DCIM) and modular power solutions with Dell's IT infrastructure. This collaboration aims to provide customers with a unified, scalable, and efficient management platform for modular data center deployments.

Product Types Covered:

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- Modular Electrical Rooms
- Containerized Electrical Rooms
- Skid-Mounted Electrical Rooms
- Other Product Types

Electrical Components Houseds Covered:

- Switchgear Systems
- Motor Control Centers (MCC)
- Power Distribution Units (PDUs)
- Transformers
- Control and Automation Units
- Other Electrical Components

Installation Types Covered:

- Fixed / Permanent Installations
- Portable / Relocatable Installations

Voltage Classes Covered:

- Low Voltage Electrical Rooms
- Medium Voltage Electrical Rooms
- High Voltage Electrical Rooms

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Integration Levels Covered:

- Pre-Wired Modular Electrical Rooms
- Field-Configured Modular Rooms

End Users Covered:

- Telecom Operators
- Utilities and Grid Operators
- Manufacturing & Heavy Industry
- Commercial Infrastructure Owners
- Oil & Gas and Energy Sector Operators
- Other End Users

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - United Kingdom
  - Germany
  - France

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- Italy
- Spain
- Netherlands
- Belgium
- Sweden
- Switzerland
- Poland
- Rest of Europe

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Thailand
- Malaysia
- Singapore
- Vietnam

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- Rest of Asia Pacific
- South America
  - Brazil
  - Argentina
  - Colombia
  - Chile
  - Peru
  - Rest of South America
- Rest of the World (RoW)
  - Middle East
  - Saudi Arabia
  - United Arab Emirates
  - Qatar
  - Israel
  - Rest of Middle East
  - Africa
  - South Africa
  - Egypt
  - Morocco
  - Rest of Africa

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What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 3032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

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