

Global Data Center Microgrids Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Data Center Microgrids market size was valued at US\$ 7408 million in 2025 and is forecast to a readjusted size of US\$ 15837 million by 2032 with a CAGR of 11.4% during review period.

In 2025, global Data Center Microgrid output reached about 12 GW and global capacity of around 15 GW. The average price is about USD 600 per kW, with gross margins near 29%. Data Center Microgrids are localized power generation and energy management systems designed to supply reliable, resilient, and efficient electricity to data centers independently or semi-independently from the main utility grid. These systems typically integrate multiple distributed energy resources such as natural gas generators, diesel backup generators, gas turbines, fuel cells, battery energy storage systems (BESS), solar photovoltaic systems, uninterruptible power supplies (UPS), switchgear, power distribution units (PDUs), energy management software, and advanced microgrid controllers that optimize load balancing and energy usage in real time. The supply chain begins with upstream raw materials and component suppliers providing batteries, semiconductors, transformers, power electronics, generators, cooling systems, and control hardware. Midstream participants include manufacturers and integrators such as Schneider Electric, ABB, Siemens, Eaton, Vertiv, and Cummins that develop integrated microgrid platforms, control systems, modular power infrastructure, and energy storage solutions. Downstream, hyperscale cloud providers, colocation operators, telecom facilities, financial institutions, healthcare organizations, AI computing centers, and government data centers deploy these systems to improve uptime, energy efficiency, grid independence, carbon reduction, and operational continuity, especially in regions with unstable grids or high electricity demand.

This report is a detailed and comprehensive analysis for global Data Center Microgrids market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. 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 Microgrids market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Data Center Microgrids market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Data Center Microgrids market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Data Center Microgrids market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 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 Microgrids

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 Microgrids market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Schneider Electric, ABB Group,

Siemens Energy, Eaton, Vertiv, Cummins, Caterpillar, GE Vernova, Hitachi Energy, Mitsubishi Electric, etc.

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

Market Segmentation

Data Center Microgrids market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Grid-Connected Type

- Islanded (Off-Grid) Type

Market segment by Power Capacity

- 10 MW

Market segment by Application

- Hyperscale Data Centers

- Colocation Data Centers

- Enterprise Data Centers

Major players covered

- Schneider Electric

- ABB Group

Siemens Energy

Eaton

Vertiv

Cummins

Caterpillar

GE Vernova

Hitachi Energy

Mitsubishi Electric

Bloom Energy

Tesla

Fluence Energy

Rolls-Royce Power Systems

Generac Power

S&C Electric

Hyundai Electric

LS Electric

Huawei

Delta Electronics

Market segment by region, regional analysis covers

Global Data Center Microgrids Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

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

Chapter 2, to profile the top manufacturers of Data Center Microgrids, with price, sales quantity, revenue, and global market share of Data Center Microgrids from 2021 to 2026.

Chapter 3, the Data Center Microgrids competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Data Center Microgrids breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Data Center Microgrids market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Data Center Microgrids.

Chapter 14 and 15, to describe Data Center Microgrids sales channel, distributors, customers, research findings and conclusion.

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