

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

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Abstracts

The global Data Center Microgrids market size is expected to reach \$ 15837 million by 2032, rising at a market growth of 11.4% CAGR during the forecast period (2026-2032).

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 studies the global Data Center Microgrids production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Microgrids 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 Microgrids that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center Microgrids total production and demand, 2021-2032, (MW)

Global Data Center Microgrids total production value, 2021-2032, (USD Million)

Global Data Center Microgrids production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global Data Center Microgrids consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: Data Center Microgrids domestic production, consumption, key domestic manufacturers and share

Global Data Center Microgrids production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global Data Center Microgrids production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Data Center Microgrids production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Data Center Microgrids market based on the following parameters - company overview, production, value, 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.

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

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (MW) and average price (US\$/KW) by manufacturer, by Type, and by Application. 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 Microgrids Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Microgrids Market, Segmentation by Type:

Grid-Connected Type

Islanded (Off-Grid) Type

Global Data Center Microgrids Market, Segmentation by Power Capacity:

10 MW

Global Data Center Microgrids Market, Segmentation by Application:

Hyperscale Data Centers

Colocation Data Centers

Enterprise Data Centers

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Data Center Microgrids market?
2. What is the demand of the global Data Center Microgrids market?
3. What is the year over year growth of the global Data Center Microgrids market?
4. What is the production and production value of the global Data Center Microgrids market?
5. Who are the key producers in the global Data Center Microgrids market?
6. What are the growth factors driving the market demand?

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