

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

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Abstracts

The global Data Center Backup Power Supply market size is expected to reach \$ 1705 million by 2032, rising at a market growth of 8.6% CAGR during the forecast period (2026-2032).

Data Center Backup Power Supply refers to the emergency power systems designed to provide uninterrupted electricity to critical IT equipment and infrastructure when the main utility power is lost or unstable. It typically consists of uninterruptible power supplies (UPS), battery energy storage systems, diesel or gas generators, and power distribution systems, ensuring continuous operation of servers, networking devices, cooling systems, and security equipment to prevent data loss, service downtime, and operational disruptions. In 2025, global Data Center Backup Power Supply production reached approximately 513 k units, with an average global market price of around US\$1600 per unit. The production capacity for Data Center Backup Power Supply in 2025 was approximately 550 k units. The typical gross profit margin for Data Center Backup Power Supply is between 20% and 40%.

The Data Center Backup Power Supply market is driven by the rapid growth of cloud computing, AI workloads, and hyperscale data centers, which require uninterrupted and highly reliable power to ensure continuous operations. Backup power systems—primarily including UPS systems, diesel and gas generators, battery energy storage systems (BESS), and emerging solutions such as fuel cells—are essential for protecting data centers from grid outages, power fluctuations, and operational risks. The market is supported by increasing investments in digital infrastructure, stricter uptime requirements (Tier III/IV), and the rising adoption of renewable energy and microgrid architectures, with North America, Asia-Pacific, and Europe being the key demand regions.

This report studies the global Data Center Backup Power Supply production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Data Center Backup Power Supply total production and demand, 2021-2032, (K Units)

Global Data Center Backup Power Supply total production value, 2021-2032, (USD Million)

Global Data Center Backup Power Supply production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Data Center Backup Power Supply consumption by region & country, CAGR, 2021-2032 & (K Units)

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

Global Data Center Backup Power Supply production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Data Center Backup Power Supply production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Data Center Backup Power Supply production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Data Center Backup Power Supply 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 AES-KY, Delta Electronics, Dynapack, LITEON Technology, STL Technologies, Sysgration, Panasonic Energy, Advanced Energy, Skeleton, FSP Group, 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 Backup Power Supply market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Backup Power Supply Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Backup Power Supply Market, Segmentation by Type:

BBU

UPS

Others

Global Data Center Backup Power Supply Market, Segmentation by Deployment

Method:

Centralized

Distributed

Modular

Global Data Center Backup Power Supply Market, Segmentation by Backup Duration:

Short-term

Medium-term

Long-term

Global Data Center Backup Power Supply Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Companies Profiled:

AES-KY

Delta Electronics

Dynapack

LITEON Technology

STL Technologies

Sysgration

Panasonic Energy

Advanced Energy

Skeleton

FSP Group

ABB

Eaton

Schneider Electric

Vertiv

Legrand

Mitsubishi Electric

Fuji Electric

Highpower Technology

Shenzhen Megmeet Electrical

Shenzhen Vapel Power Supply Technology

Shenzhen Kstar Science & Technology

Kehua Tech

Key Questions Answered:

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

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