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Data Center Battery Market by UPS (1 MWh), BESS (30 MWh), Battery Type (Li-ion, Lead-acid, Sodium-ion, Flow Battery), Data Center (Enterprise, Hyperscale, Colocation) – Global Forecast to 2032

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Abstracts

The global data center battery market is projected to grow from USD 4.82 billion in 2026 to USD 10.23 billion by 2032, at a CAGR of 13.4% over the 2026–2032 period. Market growth is supported by the increasing need for reliable backup power and energy storage solutions across enterprise, colocation, and hyperscale data centers. As data center operators expand capacity to support artificial intelligence, cloud computing, and high-performance computing workloads, investments in advanced battery technologies are increasing significantly. Batteries play a critical role in ensuring uninterrupted operations, supporting power quality management, and enhancing energy resilience across modern digital infrastructure. The growing deployment of battery energy storage systems, increasing focus on operational continuity, and rising adoption of energy-efficient power architectures are further reinforcing demand across the global data center ecosystem.

“Advanced Lead Acid Batteries to Hold a Significant Share of the Data Center Battery Market During the Forecast Period.”

Advanced lead acid batteries are projected to account for a significant share of the data center battery market from 2026 to 2032, supported by their established deployment in backup power applications and an extensive installed base in enterprise and colocation facilities. These batteries remain widely used in UPS systems for their proven reliability, lower upfront costs, mature supply chain, and strong performance in mission-critical environments. Data center operators continue to deploy advanced lead acid technologies for applications requiring dependable, short-duration backup power and

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predictable operating performance. Ongoing improvements in battery design, lifecycle performance, and maintenance requirements further support adoption. Their compatibility with existing power infrastructure and widespread acceptance across legacy facilities position advanced lead acid batteries as a major contributor to market revenues throughout the forecast period.

“Colocation Data Centers to Register a Significant CAGR in the Data Center Battery Market During the Forecast Period.”

The colocation data center segment is expected to achieve a significant CAGR over the forecast period, driven by growing enterprise outsourcing of IT infrastructure and rising demand for carrier-neutral, scalable data center facilities. Organizations are increasingly adopting colocation services to reduce capital expenditures while gaining access to advanced power, cooling, and connectivity infrastructure. Colocation operators are expanding facility capacity and deploying higher-density environments to accommodate cloud providers, artificial intelligence workloads, and enterprise customers. This expansion is generating substantial demand for UPS batteries and battery energy storage systems that can support stringent uptime requirements. Growing investments in hyperscale colocation campuses, coupled with increasing emphasis on energy efficiency and operational resilience, are expected to strengthen battery deployments across the colocation ecosystem.

“North America is Expected to Register a Significant CAGR in the Data Center Battery Market During the Forecast Period.”

North America is expected to see strong growth in the data center battery market throughout the forecast period, supported by large-scale investments in hyperscale infrastructure, artificial intelligence data centers, and cloud computing facilities. The region hosts some of the world's largest data center markets and continues to attract significant investments from hyperscale operators, colocation providers, and enterprise organizations. The growing deployment of high-density computing environments is driving demand for advanced battery technologies that ensure power reliability and operational continuity. In addition, the growing adoption of battery energy storage systems, renewable energy integration initiatives, and investments in energy-resilient infrastructure are accelerating battery deployments across data center facilities. The continuous expansion of digital infrastructure and the modernization of existing facilities position North America as a key growth region within the global market.

Breakdown of primaries

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For this study, a variety of executives from key organizations operating in the data center battery market were interviewed in-depth, including CEOs, marketing directors, and innovation and technology directors.

By Company Type: Tier 1 – 40%, Tier 2 – 35%, and Tier 3 – 25%

By Designation: C-level Executives – 48%, Directors – 33%, and Others – 19%

By Region: North America – 35%, Europe – 18%, Asia Pacific – 40%, and RoW – 7%

Note: Other designations include product, sales, and marketing managers.

Three tiers of companies have been defined based on their total revenue as of 2025: tier 3: revenue less than USD 500 million; tier 2: revenue between USD 500 million and USD 5 billion; and tier 1: revenue more than USD 5 billion.

RoW mainly includes South America, Africa, and the Middle East.

Major players operating in the data center battery market include Contemporary Amperex Technology Co., Limited (China), LG Energy Solution (South Korea), Samsung SDI (South Korea), Tesla (US), Panasonic Holdings Corporation (Japan), BYD Company Ltd. (China), GS Yuasa Corporation (Japan), EnerSys (US), EVE Energy Co., Ltd. (China), Toshiba Corporation (Japan), Sunwoda Electronic Co., Ltd. (China), Gotion (China), Leoch International Technology Limited Inc. (Singapore), Exide Industries Limited (India), East Penn Manufacturing Company (US), Saft (France), Zhejiang Narada Power Source Co., Ltd. (China), Shuangdeng Group Co., Ltd. (China), Ipower Batteries (India), ZincFive (US), C&D Technologies, Inc. (US), Xiamen Hithium Energy Storage Technology (China), ESS Tech, Inc. (US), REPT BATTERO Energy Co., Ltd. (China), Ritar International Group (China), CSB Energy Technology Co., Ltd. (Taiwan), and HOPPECKE Batterien GmbH & Co. KG (Germany). These companies offer a broad portfolio of UPS batteries, battery energy storage systems, and advanced power solutions for enterprise, colocation, and hyperscale data center applications. Market participants compete on technological innovation, product reliability, energy density, lifecycle performance, manufacturing scale, and strategic partnerships with data center operators and infrastructure providers. The study provides a detailed competitive analysis of these key players, including company profiles, recent

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developments, and key market strategies.

The study provides a detailed competitive analysis of these key players in the data center battery market, presenting their company profiles, recent developments, and key market strategies.

Research Coverage

The data center battery market is segmented by system type, battery type, data center type, application, enterprise vertical, and region. The system type segment includes uninterruptible power supply (UPS) and battery energy storage systems (BESS), while the battery type segment comprises lithium-ion batteries, advanced lead-acid batteries, and other battery technologies. By data center type, the market covers enterprise, hyperscale, and colocation data centers. Applications analyzed include backup power, peak shaving and load shifting, renewable energy integration, and demand response and ancillary services. Regionally, the market is segmented into North America, Europe, Asia Pacific, and RoW.

Reasons to buy the report

The report will help market leaders and new entrants by providing the closest available revenue estimates for the overall data center battery market and its subsegments. It will help stakeholders understand the competitive landscape and gain additional insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders assess the prospects of the market and provides insights into key drivers, restraints, challenges, and opportunities.

Key Benefits of Buying the Report

Analysis of key drivers (expansion of hyperscale, colocation, and AI-focused data centers, Increasing demand for uninterrupted power supply and energy resilience, growing adoption of battery energy storage systems, and increasing focus on energy resilience and renewable energy integration), restraints (high initial deployment costs, battery replacement expenses, thermal management requirements, and supply chain volatility for critical battery materials), opportunities (Growing adoption of battery energy storage systems (BESS) in data centers, increasing integration of renewable energy and grid interactive power infrastructure, expansion of AI-driven data center infrastructure, increasing deployment of grid-interactive data centers, growth in renewable-

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powered facilities, and rising adoption of long-duration energy storage solutions), and challenges (supply chain volatility for critical battery materials, integration of advanced battery systems with existing power infrastructure, battery safety concerns, lifecycle management complexities, space constraints in existing facilities, and integration of advanced battery systems with legacy power infrastructure) influencing the growth of the data center battery market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and product launches in the data center battery market

Market Development: Comprehensive information about lucrative markets – the report analyzes the data center battery market across varied regions

Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the data center battery market

Competitive Assessment: In-depth assessment of market share, growth strategies, product portfolios, and service offerings of leading players such as Contemporary Amperex Technology Co., Limited (China), LG Energy Solution (South Korea), Samsung SDI (South Korea), Tesla (US), and Panasonic Holdings Corporation (Japan). The report provides detailed insights into their competitive positioning, strategic developments, product innovations, and growth initiatives across the global data center battery market.

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18 COMPANY PROFILES

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List Of Tables

LIST OF TABLES

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List Of Figures

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