

Global Modular LFP Battery for Data Center 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 Modular LFP Battery for Data Center market size was valued at US\$ 642 million in 2025 and is forecast to a readjusted size of US\$ 1551 million by 2032 with a CAGR of 13.5% during review period.

Modular LFP Battery for Data Center is a modular lithium iron phosphate battery system designed for data center backup power, power continuity, and scalable power-resilience architecture, emphasizing high safety, long service life, fast response, stable discharge, flexible capacity expansion, and simplified operation and maintenance under high-density IT load conditions. Compared with modular LFP batteries for general UPS applications, this product definition places greater emphasis on data-center-level uptime requirements, standardized battery modules, cabinet-based deployment, staged capacity expansion, battery management coordination, thermal safety, rapid replacement, and integration with data center power distribution and backup systems. In 2025, the industry's capacity utilization rate was about 70%, and the average gross margin was around 23%. In 2025, production was 3.2 million KWh and the average price was USD 195 per KWh. Upstream, the product mainly relies on lithium iron phosphate cathode materials, graphite anode materials, lithium hexafluorophosphate electrolyte, separators, and copper foil, with representative suppliers including Dynanonic, BTR New Material Group, and Shenzhen Capchem providing core battery materials. The midstream segment focuses on cell formulation, electrode coating, cell assembly, formation and grading, modular battery pack design, cabinet integration, battery management system matching, thermal design, safety testing, cycle-life validation, and data-center power-system adaptation, which together determine discharge stability, backup duration, expansion flexibility, safety performance, service

life, and system integration efficiency. Downstream demand mainly comes from hyperscale data centers, colocation data centers, and enterprise-owned data centers, where power continuity, fast switching response, modular expansion, long service life, and low maintenance requirements are critical, with representative customers including Microsoft, Equinix, and Alibaba Cloud.

Modular LFP Battery for Data Center will be valued less as a standalone backup battery and more as a configurable power-resilience unit. As AI computing and high-density racks increase power fluctuation risk, hyperscale data centers need battery modules that can be expanded by phase, replaced quickly, and managed uniformly across large sites. Colocation data centers require flexible capacity because tenant loads vary by rack and contract cycle. Enterprise-owned data centers will adopt modular designs to reduce maintenance complexity and improve safety predictability. The decisive factors will be cabinet-level integration, battery management precision, thermal containment, lifecycle cost, and proven reliability under repeated backup events.

This report is a detailed and comprehensive analysis for global Modular LFP Battery for Data Center 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 Modular LFP Battery for Data Center market size and forecasts, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Modular LFP Battery for Data Center market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Modular LFP Battery for Data Center market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Modular LFP Battery for Data Center market shares of main players, shipments

in revenue (\$ Million), sales quantity (KWh), and ASP (US\$/KWh), 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 Modular LFP Battery for Data Center

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 Modular LFP Battery for Data Center 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 CATL (China), BYD (China), EVE Energy (China), Narada Power (China), Vision Group (China), Leoch International Technology (China), Shoto Group (China), Sacred Sun Power (China), Gotion High-Tech (China), CALB (China), etc.

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

Market Segmentation

Modular LFP Battery for Data Center 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

10C?Discharge Rate

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