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Global AI Computing Center Energy Storage Battery 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 AI Computing Center Energy Storage Battery market size was valued at US$ 2301 million in 2025 and is forecast to a readjusted size of US$ 80681 million by 2032 with a CAGR of 67.0% during review period.

In 2024, global AI Computing Center Energy Storage Battery production reached approximately 10.28GW, with an average global market price of around 108.75 USD per KW.

With the explosive growth in demand for artificial intelligence (AI) computing power, data centers (IDCs) are rapidly upgrading to AI data centers (AIDCs). This has led to a surge in both power consumption and the need for stable power supply, making energy storage a key solution and a new battleground for enterprises. AIDC Energy Storage Batteries are core energy support components for AIDCs, specifically designed to meet the high-power, high-fluctuation, and high-reliability power demands of AI computing scenarios. By precisely controlling energy storage and release, they ensure uninterrupted power supply for core scenarios such as server operation and AI model training, while mitigating the challenges of grid fluctuations and the intermittency of renewable energy generation.

Regarding upstream raw materials for AI Computing Center Energy Storage Battery, lead-acid batteries primarily use lead ingots, lead alloys, and casings (plastics), while lithium-ion batteries primarily use lithium iron phosphate, graphite, electrolyte (lithium battery), casing (lithium battery), BMS, module cells, and PACK.

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Downstream applications of AI Computing Center Energy Storage Battery is mainly in intelligent computing data centers for large, medium, and small enterprises. Typical customers include NVIDIA, Intel, Google, AMD, Huawei, Baidu, and Alibaba.

The production capacity of AI Computing Center Energy Storage Battery varies greatly due to differences in technology routes and product forms, and the industry's gross profit margin is usually in the range of 20%-40%.

This report is a detailed and comprehensive analysis for global AI Computing Center Energy Storage Battery 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 AI Computing Center Energy Storage Battery market size and forecasts, in consumption value ($ Million), sales quantity (MW), and average selling prices (US$/KW), 2021-2032

Global AI Computing Center Energy Storage Battery market size and forecasts by region and country, in consumption value ($ Million), sales quantity (MW), and average selling prices (US$/KW), 2021-2032

Global AI Computing Center Energy Storage Battery 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 AI Computing Center Energy Storage Battery 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 AI Computing Center Energy Storage Battery
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

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This report profiles key players in the global AI Computing Center Energy Storage Battery 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 LG, EnerSys, Samsung SDI, HOPPECKE, GS Yuasa, Exide Technologies, Saft, Shuangdeng Group, Zhejiang Narada Power Source, Shandong Sacred Sun Power Sources, etc.

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

Market Segmentation

AI Computing Center Energy Storage Battery 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

Lead-acid Batteries

Lithium-ion Batteries

Others

Market segment by Battery Cells

Square

Cylindrical

Market segment by Function

Backup Battery

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Peak Shaving and Valley Filling Battery

Frequency and Voltage Regulation Battery

Others

Market segment by Application

Large Enterprises

Small and Medium-sized Enterprises

Major players covered

LG

EnerSys

Samsung SDI

HOPPECKE

GS Yuasa

Exide Technologies

Saft

Shuangdeng Group

Zhejiang Narada Power Source

Shandong Sacred Sun Power Sources

leoch International Technology

Shenzhen Center Power Tech

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EVE Energy

Market segment by region, regional analysis covers
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 AI Computing Center Energy Storage Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Computing Center Energy Storage Battery, with price, sales quantity, revenue, and global market share of AI Computing Center Energy Storage Battery from 2021 to 2026.

Chapter 3, the AI Computing Center Energy Storage Battery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Computing Center Energy Storage Battery 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 AI Computing Center Energy Storage Battery 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.

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Chapter 13, the key raw materials and key suppliers, and industry chain of AI Computing Center Energy Storage Battery.

Chapter 14 and 15, to describe AI Computing Center Energy Storage Battery sales channel, distributors, customers, research findings and conclusion.

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