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Global AI Computing Center Energy Storage Battery Market Growth 2026-2032

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Abstracts

The global AI Computing Center Energy Storage Battery market size is predicted to grow from US$ 2187 million in 2025 to US$ 88954 million in 2032; it is expected to grow at a CAGR of 71.2% from 2026 to 2032.

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.

Downstream applications of AI Computing Center Energy Storage Battery is mainly in intelligent computing data centers for large, medium, and small enterprises. Typical

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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%.

United States market for AI Computing Center Energy Storage Battery is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for AI Computing Center Energy Storage Battery is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for AI Computing Center Energy Storage Battery is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key AI Computing Center Energy Storage Battery players cover LG, EnerSys, Samsung SDI, HOPPECKE, GS Yuasa, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “AI Computing Center Energy Storage Battery Industry Forecast” looks at past sales and reviews total world AI Computing Center Energy Storage Battery sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Computing Center Energy Storage Battery sales for 2026 through 2032. With AI Computing Center Energy Storage Battery sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world AI Computing Center Energy Storage Battery industry.

This Insight Report provides a comprehensive analysis of the global AI Computing Center Energy Storage Battery landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI Computing Center Energy Storage Battery portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global AI Computing Center Energy Storage Battery market.

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This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Computing Center Energy Storage Battery and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Computing Center Energy Storage Battery.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Computing Center Energy Storage Battery market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Lead-acid Batteries

Lithium-ion Batteries

Others

Segmentation by Battery Cells:

Square

Cylindrical

Segmentation by Function:

Backup Battery

Peak Shaving and Valley Filling Battery

Frequency and Voltage Regulation Battery

Others

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Segmentation by Application:

- Large Enterprises
- Small and Medium-sized Enterprises

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France

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UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

LG

EnerSys

Samsung SDI

HOPPECKE

GS Yuasa

Exide Technologies

Saft

Shuangdeng Group

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Zhejiang Narada Power Source

Shandong Sacred Sun Power Sources

leoch International Technology

Shenzhen Center Power Tech

EVE Energy

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Computing Center Energy Storage Battery market?

What factors are driving AI Computing Center Energy Storage Battery market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AI Computing Center Energy Storage Battery market opportunities vary by end market size?

How does AI Computing Center Energy Storage Battery break out by Type, by Application?

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