

Global Battery Energy Storage Systems for Data Centers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery Energy Storage Systems for Data Centers market size is expected to reach \$ 5326 million by 2032, rising at a market growth of 17.9% CAGR during the forecast period (2026-2032).

Battery energy storage systems for data centers are integrated electrochemical storage solutions deployed within data center campuses, electrical distribution systems, or microgrids. A typical system combines battery racks, bidirectional power conversion equipment, a battery management system, an energy management system, thermal management, fire protection, transformers, and grid controls. These systems provide sustained power during grid constraints, outages, and rapid load fluctuations while supporting peak shaving, demand management, renewable energy integration, power-quality control, and grid services. The research scope covers cabinet-based, containerized, and modular storage systems configured for data center loads. Key parameters include battery chemistry, rated power, storage capacity, discharge duration, cycle life, conversion efficiency, response time, safety certification, and coordination with UPS and microgrid architectures. The blended gross margin is approximately 25%.

AI training, cloud services, and higher rack densities are increasing data center power requirements, while grid interconnection queues, regional capacity shortages, and outage risks are shifting BESS from a supplementary backup asset to a core element of the data center energy architecture. Operators are placing greater value on hour-scale storage that can carry facility loads, reduce demand charges, perform peak shaving and energy arbitrage, improve renewable-energy utilization, and limit diesel-generator starts. When reliability requirements are satisfied, the same asset can also provide demand

response and ancillary services, converting a traditionally stranded backup resource into a dispatchable power and grid-flexibility asset.

Products are moving from dispersed battery cabinets toward highly integrated modular and containerized platforms. Lithium iron phosphate remains the mainstream chemistry, while liquid cooling, rack-level control, active safety warning, zoned fire protection, and high-efficiency bidirectional converters are becoming standard purchasing priorities. To manage rapid AI workload fluctuations, suppliers are strengthening millisecond response, grid-forming control, black-start capability, and coordinated dispatch among the EMS, UPS, standby generation, and campus microgrid. Longer-duration lithium systems, sodium-ion batteries, and flow batteries are likely to enter first where grid constraints are severe, renewable penetration is high, or operators seek longer diesel-free runtime.

North America is driven by hyperscale construction and interconnection bottlenecks, resulting in larger projects and higher system value per site. Europe places greater emphasis on decarbonization, energy arbitrage, and grid services, while China and other Asian markets benefit from scaled cell manufacturing and system-integration supply chains. Procurement is expected to concentrate among suppliers able to combine batteries, power conversion, controls, fire-safety certification, lifecycle service, and bankable warranties. Key constraints include upfront capital costs, fire and site approvals, differing grid rules, uncertain revenue stacking, and competition from diesel generators, gas generation, fuel cells, and conventional UPS solutions; however, bring-your-own-power strategies and flexible interconnection in power-constrained regions will continue to expand demand.

Report Scope

This report studies the global Battery Energy Storage Systems for Data Centers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Energy Storage Systems for Data Centers 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 Battery Energy Storage Systems for Data Centers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Energy Storage Systems for Data Centers total production and demand, 2021-2032, (Units)

Global Battery Energy Storage Systems for Data Centers total production value, 2021-2032, (USD Million)

Global Battery Energy Storage Systems for Data Centers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Battery Energy Storage Systems for Data Centers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Battery Energy Storage Systems for Data Centers domestic production, consumption, key domestic manufacturers and share

Global Battery Energy Storage Systems for Data Centers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Battery Energy Storage Systems for Data Centers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Battery Energy Storage Systems for Data Centers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Battery Energy Storage Systems for Data Centers 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 Schneider Electric, Vertiv, Eaton, Huawei Digital Power, Tesla, Fluence, Wärtsilä, Sungrow, CATL, BYD Energy Storage, 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 Battery Energy Storage Systems for Data Centers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Battery Energy Storage Systems for Data Centers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Battery Energy Storage Systems for Data Centers Market,

Segmentation by Type:

Lithium Iron Phosphate BESS

Nickel-Based Lithium-Ion BESS

Lead-Acid BESS

Sodium-Ion BESS

Flow Battery BESS

Others

Global Battery Energy Storage Systems for Data Centers Market, Segmentation by Rated Power:

Below 1 MW

1 MW to Below 5 MW

5 MW to Below 20 MW

20 MW and Above

Global Battery Energy Storage Systems for Data Centers Market, Segmentation by Discharge Duration:

Below 1 Hour

1 Hour to Below 2 Hours

2 to 4 Hours

Above 4 Hours

Global Battery Energy Storage Systems for Data Centers Market, Segmentation by Cooling Method:

Air-Cooled

Liquid-Cooled

Hybrid-Cooled

Others

Global Battery Energy Storage Systems for Data Centers Market, Segmentation by Application:

Cloud and Internet Data Centers

Colocation Data Centers

Enterprise Data Centers

Telecom Data Centers

Government and Research Data Centers

Others

Companies Profiled:

Schneider Electric

Vertiv

Eaton

Huawei Digital Power

Tesla

Fluence

Wärtsilä

Sungrow

CATL

BYD Energy Storage

Delta Electronics

EVE Energy

HiTHIUM

Trina Storage

e-STORAGE

Saft

FlexGen

Key Questions Answered

1. How big is the global Battery Energy Storage Systems for Data Centers market?
2. What is the demand of the global Battery Energy Storage Systems for Data Centers market?
3. What is the year over year growth of the global Battery Energy Storage Systems for Data Centers market?
4. What is the total value of the global Battery Energy Storage Systems for Data Centers market?
5. Who are the Major Players in the global Battery Energy Storage Systems for Data Centers market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Battery Energy Storage Systems for Data Centers Introduction
- 1.2 World Battery Energy Storage Systems for Data Centers Supply & Forecast
 - 1.2.1 World Battery Energy Storage Systems for Data Centers Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Battery Energy Storage Systems for Data Centers Production (2021-2032)
 - 1.2.3 World Battery Energy Storage Systems for Data Centers Pricing Trends (2021-2032)
- 1.3 World Battery Energy Storage Systems for Data Centers Production by Region (Based on Production Site)
 - 1.3.1 World Battery Energy Storage Systems for Data Centers Production Value by Region (2021-2032)
 - 1.3.2 World Battery Energy Storage Systems for Data Centers Production by Region (2021-2032)
 - 1.3.3 World Battery Energy Storage Systems for Data Centers Average Price by Region (2021-2032)
 - 1.3.4 North America Battery Energy Storage Systems for Data Centers Production (2021-2032)
 - 1.3.5 Europe Battery Energy Storage Systems for Data Centers Production (2021-2032)
 - 1.3.6 China Battery Energy Storage Systems for Data Centers Production (2021-2032)
 - 1.3.7 Japan Battery Energy Storage Systems for Data Centers Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Battery Energy Storage Systems for Data Centers Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Battery Energy Storage Systems for Data Centers Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Battery Energy Storage Systems for Data Centers Demand (2021-2032)
- 2.2 World Battery Energy Storage Systems for Data Centers Consumption by Region
 - 2.2.1 World Battery Energy Storage Systems for Data Centers Consumption by Region (2021-2026)
 - 2.2.2 World Battery Energy Storage Systems for Data Centers Consumption Forecast by Region (2027-2032)
- 2.3 United States Battery Energy Storage Systems for Data Centers Consumption

(2021-2032)

2.4 China Battery Energy Storage Systems for Data Centers Consumption (2021-2032)

2.5 Europe Battery Energy Storage Systems for Data Centers Consumption
(2021-2032)

2.6 Japan Battery Energy Storage Systems for Data Centers Consumption (2021-2032)

2.7 South Korea Battery Energy Storage Systems for Data Centers Consumption
(2021-2032)

2.8 ASEAN Battery Energy Storage Systems for Data Centers Consumption
(2021-2032)

2.9 India Battery Energy Storage Systems for Data Centers Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Battery Energy Storage Systems for Data Centers Production Value by
Manufacturer (2021-2026)

3.2 World Battery Energy Storage Systems for Data Centers Production by
Manufacturer (2021-2026)

3.3 World Battery Energy Storage Systems for Data Centers Average Price by
Manufacturer (2021-2026)

3.4 Battery Energy Storage Systems for Data Centers Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Battery Energy Storage Systems for Data Centers Industry Rank of Major
Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Battery Energy Storage Systems for Data
Centers in 2025

3.5.3 Global Concentration Ratios (CR8) for Battery Energy Storage Systems for Data
Centers in 2025

3.6 Battery Energy Storage Systems for Data Centers Market: Overall Company
Footprint Analysis

3.6.1 Battery Energy Storage Systems for Data Centers Market: Region Footprint

3.6.2 Battery Energy Storage Systems for Data Centers Market: Company Product
Type Footprint

3.6.3 Battery Energy Storage Systems for Data Centers Market: Company Product
Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Battery Energy Storage Systems for Data Centers

Production Value Comparison

4.1.1 United States VS China: Battery Energy Storage Systems for Data Centers Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Battery Energy Storage Systems for Data Centers Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Battery Energy Storage Systems for Data Centers Production Comparison

4.2.1 United States VS China: Battery Energy Storage Systems for Data Centers Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Battery Energy Storage Systems for Data Centers Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Battery Energy Storage Systems for Data Centers Consumption Comparison

4.3.1 United States VS China: Battery Energy Storage Systems for Data Centers Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Battery Energy Storage Systems for Data Centers Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Battery Energy Storage Systems for Data Centers Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Battery Energy Storage Systems for Data Centers Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Battery Energy Storage Systems for Data Centers Production Value (2021-2026)

4.4.3 United States Based Manufacturers Battery Energy Storage Systems for Data Centers Production (2021-2026)

4.5 China Based Battery Energy Storage Systems for Data Centers Manufacturers and Market Share

4.5.1 China Based Battery Energy Storage Systems for Data Centers Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Battery Energy Storage Systems for Data Centers Production Value (2021-2026)

4.5.3 China Based Manufacturers Battery Energy Storage Systems for Data Centers Production (2021-2026)

4.6 Rest of World Based Battery Energy Storage Systems for Data Centers

Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Battery Energy Storage Systems for Data Centers

Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Battery Energy Storage Systems for Data Centers Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Battery Energy Storage Systems for Data Centers Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Battery Energy Storage Systems for Data Centers Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Lithium Iron Phosphate BESS

5.2.2 Nickel-Based Lithium-Ion BESS

5.2.3 Lead-Acid BESS

5.2.4 Sodium-Ion BESS

5.2.5 Flow Battery BESS

5.2.6 Others

5.3 Market Segment by Type

5.3.1 World Battery Energy Storage Systems for Data Centers Production by Type (2021-2032)

5.3.2 World Battery Energy Storage Systems for Data Centers Production Value by Type (2021-2032)

5.3.3 World Battery Energy Storage Systems for Data Centers Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY RATED POWER

6.1 World Battery Energy Storage Systems for Data Centers Market Size Overview by Rated Power: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Rated Power

6.2.1 Below 1 MW

6.2.2 1 MW to Below 5 MW

6.2.3 5 MW to Below 20 MW

6.2.4 20 MW and Above

6.3 Market Segment by Rated Power

6.3.1 World Battery Energy Storage Systems for Data Centers Production by Rated Power (2021-2032)

6.3.2 World Battery Energy Storage Systems for Data Centers Production Value by Rated Power (2021-2032)

6.3.3 World Battery Energy Storage Systems for Data Centers Average Price by Rated Power (2021-2032)

7 MARKET ANALYSIS BY DISCHARGE DURATION

7.1 World Battery Energy Storage Systems for Data Centers Market Size Overview by Discharge Duration: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Discharge Duration

7.2.1 Below 1 Hour

7.2.2 1 Hour to Below 2 Hours

7.2.3 2 to 4 Hours

7.2.4 Above 4 Hours

7.3 Market Segment by Discharge Duration

7.3.1 World Battery Energy Storage Systems for Data Centers Production by Discharge Duration (2021-2032)

7.3.2 World Battery Energy Storage Systems for Data Centers Production Value by Discharge Duration (2021-2032)

7.3.3 World Battery Energy Storage Systems for Data Centers Average Price by Discharge Duration (2021-2032)

8 MARKET ANALYSIS BY COOLING METHOD

8.1 World Battery Energy Storage Systems for Data Centers Market Size Overview by Cooling Method: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Cooling Method

8.2.1 Air-Cooled

8.2.2 Liquid-Cooled

8.2.3 Hybrid-Cooled

8.2.4 Others

8.3 Market Segment by Cooling Method

8.3.1 World Battery Energy Storage Systems for Data Centers Production by Cooling Method (2021-2032)

8.3.2 World Battery Energy Storage Systems for Data Centers Production Value by Cooling Method (2021-2032)

8.3.3 World Battery Energy Storage Systems for Data Centers Average Price by Cooling Method (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Battery Energy Storage Systems for Data Centers Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Cloud and Internet Data Centers

9.2.2 Colocation Data Centers

9.2.3 Enterprise Data Centers

9.2.4 Telecom Data Centers

9.2.5 Government and Research Data Centers

9.2.6 Others

9.3 Market Segment by Application

9.3.1 World Battery Energy Storage Systems for Data Centers Production by Application (2021-2032)

9.3.2 World Battery Energy Storage Systems for Data Centers Production Value by Application (2021-2032)

9.3.3 World Battery Energy Storage Systems for Data Centers Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 Schneider Electric

10.1.1 Schneider Electric Details

10.1.2 Schneider Electric Major Business

10.1.3 Schneider Electric Battery Energy Storage Systems for Data Centers Product and Services

10.1.4 Schneider Electric Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Schneider Electric Recent Developments/Updates

10.1.6 Schneider Electric Competitive Strengths & Weaknesses

10.2 Vertiv

10.2.1 Vertiv Details

10.2.2 Vertiv Major Business

10.2.3 Vertiv Battery Energy Storage Systems for Data Centers Product and Services

10.2.4 Vertiv Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 Vertiv Recent Developments/Updates

10.2.6 Vertiv Competitive Strengths & Weaknesses

10.3 Eaton

- 10.3.1 Eaton Details
- 10.3.2 Eaton Major Business
- 10.3.3 Eaton Battery Energy Storage Systems for Data Centers Product and Services
- 10.3.4 Eaton Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.3.5 Eaton Recent Developments/Updates
- 10.3.6 Eaton Competitive Strengths & Weaknesses
- 10.4 Huawei Digital Power
 - 10.4.1 Huawei Digital Power Details
 - 10.4.2 Huawei Digital Power Major Business
 - 10.4.3 Huawei Digital Power Battery Energy Storage Systems for Data Centers Product and Services
 - 10.4.4 Huawei Digital Power Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.4.5 Huawei Digital Power Recent Developments/Updates
 - 10.4.6 Huawei Digital Power Competitive Strengths & Weaknesses
- 10.5 Tesla
 - 10.5.1 Tesla Details
 - 10.5.2 Tesla Major Business
 - 10.5.3 Tesla Battery Energy Storage Systems for Data Centers Product and Services
 - 10.5.4 Tesla Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 Tesla Recent Developments/Updates
 - 10.5.6 Tesla Competitive Strengths & Weaknesses
- 10.6 Fluence
 - 10.6.1 Fluence Details
 - 10.6.2 Fluence Major Business
 - 10.6.3 Fluence Battery Energy Storage Systems for Data Centers Product and Services
 - 10.6.4 Fluence Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Fluence Recent Developments/Updates
 - 10.6.6 Fluence Competitive Strengths & Weaknesses
- 10.7 Wärtsilä
 - 10.7.1 Wärtsilä Details
 - 10.7.2 Wärtsilä Major Business
 - 10.7.3 Wärtsilä Battery Energy Storage Systems for Data Centers Product and Services
 - 10.7.4 Wärtsilä Battery Energy Storage Systems for Data Centers Production, Price,

Value, Gross Margin and Market Share (2021-2026)

10.7.5 Wärtsilä Recent Developments/Updates

10.7.6 Wärtsilä Competitive Strengths & Weaknesses

10.8 Sungrow

10.8.1 Sungrow Details

10.8.2 Sungrow Major Business

10.8.3 Sungrow Battery Energy Storage Systems for Data Centers Product and Services

10.8.4 Sungrow Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.8.5 Sungrow Recent Developments/Updates

10.8.6 Sungrow Competitive Strengths & Weaknesses

10.9 CATL

10.9.1 CATL Details

10.9.2 CATL Major Business

10.9.3 CATL Battery Energy Storage Systems for Data Centers Product and Services

10.9.4 CATL Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.9.5 CATL Recent Developments/Updates

10.9.6 CATL Competitive Strengths & Weaknesses

10.10 BYD Energy Storage

10.10.1 BYD Energy Storage Details

10.10.2 BYD Energy Storage Major Business

10.10.3 BYD Energy Storage Battery Energy Storage Systems for Data Centers Product and Services

10.10.4 BYD Energy Storage Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.10.5 BYD Energy Storage Recent Developments/Updates

10.10.6 BYD Energy Storage Competitive Strengths & Weaknesses

10.11 Delta Electronics

10.11.1 Delta Electronics Details

10.11.2 Delta Electronics Major Business

10.11.3 Delta Electronics Battery Energy Storage Systems for Data Centers Product and Services

10.11.4 Delta Electronics Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.11.5 Delta Electronics Recent Developments/Updates

10.11.6 Delta Electronics Competitive Strengths & Weaknesses

10.12 EVE Energy

- 10.12.1 EVE Energy Details
- 10.12.2 EVE Energy Major Business
- 10.12.3 EVE Energy Battery Energy Storage Systems for Data Centers Product and Services
- 10.12.4 EVE Energy Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.12.5 EVE Energy Recent Developments/Updates
- 10.12.6 EVE Energy Competitive Strengths & Weaknesses
- 10.13 HiTHIUM
 - 10.13.1 HiTHIUM Details
 - 10.13.2 HiTHIUM Major Business
 - 10.13.3 HiTHIUM Battery Energy Storage Systems for Data Centers Product and Services
 - 10.13.4 HiTHIUM Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.13.5 HiTHIUM Recent Developments/Updates
 - 10.13.6 HiTHIUM Competitive Strengths & Weaknesses
- 10.14 Trina Storage
 - 10.14.1 Trina Storage Details
 - 10.14.2 Trina Storage Major Business
 - 10.14.3 Trina Storage Battery Energy Storage Systems for Data Centers Product and Services
 - 10.14.4 Trina Storage Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.14.5 Trina Storage Recent Developments/Updates
 - 10.14.6 Trina Storage Competitive Strengths & Weaknesses
- 10.15 e-STORAGE
 - 10.15.1 e-STORAGE Details
 - 10.15.2 e-STORAGE Major Business
 - 10.15.3 e-STORAGE Battery Energy Storage Systems for Data Centers Product and Services
 - 10.15.4 e-STORAGE Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.15.5 e-STORAGE Recent Developments/Updates
 - 10.15.6 e-STORAGE Competitive Strengths & Weaknesses
- 10.16 Saft
 - 10.16.1 Saft Details
 - 10.16.2 Saft Major Business
 - 10.16.3 Saft Battery Energy Storage Systems for Data Centers Product and Services

10.16.4 Saft Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.16.5 Saft Recent Developments/Updates

10.16.6 Saft Competitive Strengths & Weaknesses

10.17 FlexGen

10.17.1 FlexGen Details

10.17.2 FlexGen Major Business

10.17.3 FlexGen Battery Energy Storage Systems for Data Centers Product and Services

10.17.4 FlexGen Battery Energy Storage Systems for Data Centers Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.17.5 FlexGen Recent Developments/Updates

10.17.6 FlexGen Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Battery Energy Storage Systems for Data Centers Industry Chain

11.2 Battery Energy Storage Systems for Data Centers Upstream Analysis

11.2.1 Battery Energy Storage Systems for Data Centers Core Raw Materials

11.2.2 Main Manufacturers of Battery Energy Storage Systems for Data Centers Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 Battery Energy Storage Systems for Data Centers Production Mode

11.6 Battery Energy Storage Systems for Data Centers Procurement Model

11.7 Battery Energy Storage Systems for Data Centers Industry Sales Model and Sales Channels

11.7.1 Battery Energy Storage Systems for Data Centers Sales Model

11.7.2 Battery Energy Storage Systems for Data Centers Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Battery Energy Storage Systems for Data Centers Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Battery Energy Storage Systems for Data Centers Production Value by Region (2021-2026) & (USD Million)

Table 3. World Battery Energy Storage Systems for Data Centers Production Value by Region (2027-2032) & (USD Million)

Table 4. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Region (2021-2026)

Table 5. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Region (2027-2032)

Table 6. World Battery Energy Storage Systems for Data Centers Production by Region (2021-2026) & (Units)

Table 7. World Battery Energy Storage Systems for Data Centers Production by Region (2027-2032) & (Units)

Table 8. World Battery Energy Storage Systems for Data Centers Production Market Share by Region (2021-2026)

Table 9. World Battery Energy Storage Systems for Data Centers Production Market Share by Region (2027-2032)

Table 10. World Battery Energy Storage Systems for Data Centers Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Battery Energy Storage Systems for Data Centers Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Battery Energy Storage Systems for Data Centers Major Market Trends

Table 13. World Battery Energy Storage Systems for Data Centers Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Battery Energy Storage Systems for Data Centers Consumption by Region (2021-2026) & (Units)

Table 15. World Battery Energy Storage Systems for Data Centers Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Battery Energy Storage Systems for Data Centers Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Battery Energy Storage Systems for Data Centers Producers in 2025

Table 18. World Battery Energy Storage Systems for Data Centers Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Battery Energy Storage Systems for Data Centers Producers in 2025

Table 20. World Battery Energy Storage Systems for Data Centers Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Battery Energy Storage Systems for Data Centers Company Evaluation Quadrant

Table 22. World Battery Energy Storage Systems for Data Centers Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Battery Energy Storage Systems for Data Centers Production Site of Key Manufacturer

Table 24. Battery Energy Storage Systems for Data Centers Market: Company Product Type Footprint

Table 25. Battery Energy Storage Systems for Data Centers Market: Company Product Application Footprint

Table 26. Battery Energy Storage Systems for Data Centers Competitive Factors

Table 27. Battery Energy Storage Systems for Data Centers New Entrant and Capacity Expansion Plans

Table 28. Battery Energy Storage Systems for Data Centers Mergers & Acquisitions Activity

Table 29. United States VS China Battery Energy Storage Systems for Data Centers Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Battery Energy Storage Systems for Data Centers Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Battery Energy Storage Systems for Data Centers Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Battery Energy Storage Systems for Data Centers Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Battery Energy Storage Systems for Data Centers Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Battery Energy Storage Systems for Data Centers Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Battery Energy Storage Systems for Data Centers Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Battery Energy Storage Systems for Data Centers Production Market Share (2021-2026)

Table 37. China Based Battery Energy Storage Systems for Data Centers Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Battery Energy Storage Systems for Data Centers Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Battery Energy Storage Systems for Data Centers Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Battery Energy Storage Systems for Data Centers Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Battery Energy Storage Systems for Data Centers Production Market Share (2021-2026)

Table 42. Rest of World Based Battery Energy Storage Systems for Data Centers Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Battery Energy Storage Systems for Data Centers Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Battery Energy Storage Systems for Data Centers Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Battery Energy Storage Systems for Data Centers Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Battery Energy Storage Systems for Data Centers Production Market Share (2021-2026)

Table 47. World Battery Energy Storage Systems for Data Centers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Battery Energy Storage Systems for Data Centers Production by Type (2021-2026) & (Units)

Table 49. World Battery Energy Storage Systems for Data Centers Production by Type (2027-2032) & (Units)

Table 50. World Battery Energy Storage Systems for Data Centers Production Value by Type (2021-2026) & (USD Million)

Table 51. World Battery Energy Storage Systems for Data Centers Production Value by Type (2027-2032) & (USD Million)

Table 52. World Battery Energy Storage Systems for Data Centers Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Battery Energy Storage Systems for Data Centers Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Battery Energy Storage Systems for Data Centers Production Value by Rated Power, (USD Million), 2021 & 2025 & 2032

Table 55. World Battery Energy Storage Systems for Data Centers Production by Rated Power (2021-2026) & (Units)

Table 56. World Battery Energy Storage Systems for Data Centers Production by Rated Power (2027-2032) & (Units)

Table 57. World Battery Energy Storage Systems for Data Centers Production Value by Rated Power (2021-2026) & (USD Million)

Table 58. World Battery Energy Storage Systems for Data Centers Production Value by

Rated Power (2027-2032) & (USD Million)

Table 59. World Battery Energy Storage Systems for Data Centers Average Price by Rated Power (2021-2026) & (US\$/Unit)

Table 60. World Battery Energy Storage Systems for Data Centers Average Price by Rated Power (2027-2032) & (US\$/Unit)

Table 61. World Battery Energy Storage Systems for Data Centers Production Value by Discharge Duration, (USD Million), 2021 & 2025 & 2032

Table 62. World Battery Energy Storage Systems for Data Centers Production by Discharge Duration (2021-2026) & (Units)

Table 63. World Battery Energy Storage Systems for Data Centers Production by Discharge Duration (2027-2032) & (Units)

Table 64. World Battery Energy Storage Systems for Data Centers Production Value by Discharge Duration (2021-2026) & (USD Million)

Table 65. World Battery Energy Storage Systems for Data Centers Production Value by Discharge Duration (2027-2032) & (USD Million)

Table 66. World Battery Energy Storage Systems for Data Centers Average Price by Discharge Duration (2021-2026) & (US\$/Unit)

Table 67. World Battery Energy Storage Systems for Data Centers Average Price by Discharge Duration (2027-2032) & (US\$/Unit)

Table 68. World Battery Energy Storage Systems for Data Centers Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032

Table 69. World Battery Energy Storage Systems for Data Centers Production by Cooling Method (2021-2026) & (Units)

Table 70. World Battery Energy Storage Systems for Data Centers Production by Cooling Method (2027-2032) & (Units)

Table 71. World Battery Energy Storage Systems for Data Centers Production Value by Cooling Method (2021-2026) & (USD Million)

Table 72. World Battery Energy Storage Systems for Data Centers Production Value by Cooling Method (2027-2032) & (USD Million)

Table 73. World Battery Energy Storage Systems for Data Centers Average Price by Cooling Method (2021-2026) & (US\$/Unit)

Table 74. World Battery Energy Storage Systems for Data Centers Average Price by Cooling Method (2027-2032) & (US\$/Unit)

Table 75. World Battery Energy Storage Systems for Data Centers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Battery Energy Storage Systems for Data Centers Production by Application (2021-2026) & (Units)

Table 77. World Battery Energy Storage Systems for Data Centers Production by Application (2027-2032) & (Units)

Table 78. World Battery Energy Storage Systems for Data Centers Production Value by Application (2021-2026) & (USD Million)

Table 79. World Battery Energy Storage Systems for Data Centers Production Value by Application (2027-2032) & (USD Million)

Table 80. World Battery Energy Storage Systems for Data Centers Average Price by Application (2021-2026) & (US\$/Unit)

Table 81. World Battery Energy Storage Systems for Data Centers Average Price by Application (2027-2032) & (US\$/Unit)

Table 82. Schneider Electric Basic Information, Manufacturing Base and Competitors

Table 83. Schneider Electric Major Business

Table 84. Schneider Electric Battery Energy Storage Systems for Data Centers Product and Services

Table 85. Schneider Electric Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Schneider Electric Recent Developments/Updates

Table 87. Schneider Electric Competitive Strengths & Weaknesses

Table 88. Vertiv Basic Information, Manufacturing Base and Competitors

Table 89. Vertiv Major Business

Table 90. Vertiv Battery Energy Storage Systems for Data Centers Product and Services

Table 91. Vertiv Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Vertiv Recent Developments/Updates

Table 93. Vertiv Competitive Strengths & Weaknesses

Table 94. Eaton Basic Information, Manufacturing Base and Competitors

Table 95. Eaton Major Business

Table 96. Eaton Battery Energy Storage Systems for Data Centers Product and Services

Table 97. Eaton Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Eaton Recent Developments/Updates

Table 99. Eaton Competitive Strengths & Weaknesses

Table 100. Huawei Digital Power Basic Information, Manufacturing Base and Competitors

Table 101. Huawei Digital Power Major Business

Table 102. Huawei Digital Power Battery Energy Storage Systems for Data Centers

Product and Services

Table 103. Huawei Digital Power Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Huawei Digital Power Recent Developments/Updates

Table 105. Huawei Digital Power Competitive Strengths & Weaknesses

Table 106. Tesla Basic Information, Manufacturing Base and Competitors

Table 107. Tesla Major Business

Table 108. Tesla Battery Energy Storage Systems for Data Centers Product and Services

Table 109. Tesla Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Tesla Recent Developments/Updates

Table 111. Tesla Competitive Strengths & Weaknesses

Table 112. Fluence Basic Information, Manufacturing Base and Competitors

Table 113. Fluence Major Business

Table 114. Fluence Battery Energy Storage Systems for Data Centers Product and Services

Table 115. Fluence Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Fluence Recent Developments/Updates

Table 117. Fluence Competitive Strengths & Weaknesses

Table 118. Wärtsilä Basic Information, Manufacturing Base and Competitors

Table 119. Wärtsilä Major Business

Table 120. Wärtsilä Battery Energy Storage Systems for Data Centers Product and Services

Table 121. Wärtsilä Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Wärtsilä Recent Developments/Updates

Table 123. Wärtsilä Competitive Strengths & Weaknesses

Table 124. Sungrow Basic Information, Manufacturing Base and Competitors

Table 125. Sungrow Major Business

Table 126. Sungrow Battery Energy Storage Systems for Data Centers Product and Services

Table 127. Sungrow Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 128. Sungrow Recent Developments/Updates

Table 129. Sungrow Competitive Strengths & Weaknesses

Table 130. CATL Basic Information, Manufacturing Base and Competitors

Table 131. CATL Major Business

Table 132. CATL Battery Energy Storage Systems for Data Centers Product and Services

Table 133. CATL Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. CATL Recent Developments/Updates

Table 135. CATL Competitive Strengths & Weaknesses

Table 136. BYD Energy Storage Basic Information, Manufacturing Base and Competitors

Table 137. BYD Energy Storage Major Business

Table 138. BYD Energy Storage Battery Energy Storage Systems for Data Centers Product and Services

Table 139. BYD Energy Storage Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. BYD Energy Storage Recent Developments/Updates

Table 141. BYD Energy Storage Competitive Strengths & Weaknesses

Table 142. Delta Electronics Basic Information, Manufacturing Base and Competitors

Table 143. Delta Electronics Major Business

Table 144. Delta Electronics Battery Energy Storage Systems for Data Centers Product and Services

Table 145. Delta Electronics Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. Delta Electronics Recent Developments/Updates

Table 147. Delta Electronics Competitive Strengths & Weaknesses

Table 148. EVE Energy Basic Information, Manufacturing Base and Competitors

Table 149. EVE Energy Major Business

Table 150. EVE Energy Battery Energy Storage Systems for Data Centers Product and Services

Table 151. EVE Energy Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. EVE Energy Recent Developments/Updates

Table 153. EVE Energy Competitive Strengths & Weaknesses

Table 154. HiTHIUM Basic Information, Manufacturing Base and Competitors

Table 155. HiTHIUM Major Business

Table 156. HiTHIUM Battery Energy Storage Systems for Data Centers Product and Services

Table 157. HiTHIUM Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 158. HiTHIUM Recent Developments/Updates

Table 159. HiTHIUM Competitive Strengths & Weaknesses

Table 160. Trina Storage Basic Information, Manufacturing Base and Competitors

Table 161. Trina Storage Major Business

Table 162. Trina Storage Battery Energy Storage Systems for Data Centers Product and Services

Table 163. Trina Storage Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 164. Trina Storage Recent Developments/Updates

Table 165. Trina Storage Competitive Strengths & Weaknesses

Table 166. e-STORAGE Basic Information, Manufacturing Base and Competitors

Table 167. e-STORAGE Major Business

Table 168. e-STORAGE Battery Energy Storage Systems for Data Centers Product and Services

Table 169. e-STORAGE Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 170. e-STORAGE Recent Developments/Updates

Table 171. e-STORAGE Competitive Strengths & Weaknesses

Table 172. Saft Basic Information, Manufacturing Base and Competitors

Table 173. Saft Major Business

Table 174. Saft Battery Energy Storage Systems for Data Centers Product and Services

Table 175. Saft Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 176. Saft Recent Developments/Updates

Table 177. Saft Competitive Strengths & Weaknesses

Table 178. FlexGen Basic Information, Manufacturing Base and Competitors

Table 179. FlexGen Major Business

Table 180. FlexGen Battery Energy Storage Systems for Data Centers Product and

Services

Table 181. FlexGen Battery Energy Storage Systems for Data Centers Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 182. FlexGen Recent Developments/Updates

Table 183. FlexGen Competitive Strengths & Weaknesses

Table 184. Global Key Players of Battery Energy Storage Systems for Data Centers Upstream (Raw Materials)

Table 185. Global Battery Energy Storage Systems for Data Centers Typical Customers

Table 186. Battery Energy Storage Systems for Data Centers Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Battery Energy Storage Systems for Data Centers Picture

Figure 2. World Battery Energy Storage Systems for Data Centers Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Battery Energy Storage Systems for Data Centers Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Battery Energy Storage Systems for Data Centers Production (2021-2032) & (Units)

Figure 5. World Battery Energy Storage Systems for Data Centers Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Region (2021-2032)

Figure 7. World Battery Energy Storage Systems for Data Centers Production Market Share by Region (2021-2032)

Figure 8. North America Battery Energy Storage Systems for Data Centers Production (2021-2032) & (Units)

Figure 9. Europe Battery Energy Storage Systems for Data Centers Production (2021-2032) & (Units)

Figure 10. China Battery Energy Storage Systems for Data Centers Production (2021-2032) & (Units)

Figure 11. Japan Battery Energy Storage Systems for Data Centers Production (2021-2032) & (Units)

Figure 12. Battery Energy Storage Systems for Data Centers Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Battery Energy Storage Systems for Data Centers Consumption (2021-2032) & (Units)

Figure 15. World Battery Energy Storage Systems for Data Centers Consumption Market Share by Region (2021-2032)

Figure 16. United States Battery Energy Storage Systems for Data Centers Consumption (2021-2032) & (Units)

Figure 17. China Battery Energy Storage Systems for Data Centers Consumption (2021-2032) & (Units)

Figure 18. Europe Battery Energy Storage Systems for Data Centers Consumption (2021-2032) & (Units)

Figure 19. Japan Battery Energy Storage Systems for Data Centers Consumption (2021-2032) & (Units)

Figure 20. South Korea Battery Energy Storage Systems for Data Centers Consumption (2021-2032) & (Units)

Figure 21. ASEAN Battery Energy Storage Systems for Data Centers Consumption (2021-2032) & (Units)

Figure 22. India Battery Energy Storage Systems for Data Centers Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Battery Energy Storage Systems for Data Centers by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Battery Energy Storage Systems for Data Centers Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Battery Energy Storage Systems for Data Centers Markets in 2025

Figure 26. United States VS China: Battery Energy Storage Systems for Data Centers Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Battery Energy Storage Systems for Data Centers Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Battery Energy Storage Systems for Data Centers Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Battery Energy Storage Systems for Data Centers Production Market Share 2025

Figure 30. China Based Manufacturers Battery Energy Storage Systems for Data Centers Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Battery Energy Storage Systems for Data Centers Production Market Share 2025

Figure 32. World Battery Energy Storage Systems for Data Centers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Type in 2025

Figure 34. Lithium Iron Phosphate BESS

Figure 35. Nickel-Based Lithium-Ion BESS

Figure 36. Lead-Acid BESS

Figure 37. Sodium-Ion BESS

Figure 38. Flow Battery BESS

Figure 39. Others

Figure 40. World Battery Energy Storage Systems for Data Centers Production Market Share by Type (2021-2032)

Figure 41. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Type (2021-2032)

Figure 42. World Battery Energy Storage Systems for Data Centers Average Price by

Type (2021-2032) & (US\$/Unit)

Figure 43. World Battery Energy Storage Systems for Data Centers Production Value by Rated Power, (USD Million), 2021 & 2025 & 2032

Figure 44. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Rated Power in 2025

Figure 45. Below 1 MW

Figure 46. 1 MW to Below 5 MW

Figure 47. 5 MW to Below 20 MW

Figure 48. 20 MW and Above

Figure 49. World Battery Energy Storage Systems for Data Centers Production Market Share by Rated Power (2021-2032)

Figure 50. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Rated Power (2021-2032)

Figure 51. World Battery Energy Storage Systems for Data Centers Average Price by Rated Power (2021-2032) & (US\$/Unit)

Figure 52. World Battery Energy Storage Systems for Data Centers Production Value by Discharge Duration, (USD Million), 2021 & 2025 & 2032

Figure 53. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Discharge Duration in 2025

Figure 54. Below 1 Hour

Figure 55. 1 Hour to Below 2 Hours

Figure 56. 2 to 4 Hours

Figure 57. Above 4 Hours

Figure 58. World Battery Energy Storage Systems for Data Centers Production Market Share by Discharge Duration (2021-2032)

Figure 59. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Discharge Duration (2021-2032)

Figure 60. World Battery Energy Storage Systems for Data Centers Average Price by Discharge Duration (2021-2032) & (US\$/Unit)

Figure 61. World Battery Energy Storage Systems for Data Centers Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032

Figure 62. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Cooling Method in 2025

Figure 63. Air-Cooled

Figure 64. Liquid-Cooled

Figure 65. Hybrid-Cooled

Figure 66. Others

Figure 67. World Battery Energy Storage Systems for Data Centers Production Market Share by Cooling Method (2021-2032)

Figure 68. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Cooling Method (2021-2032)

Figure 69. World Battery Energy Storage Systems for Data Centers Average Price by Cooling Method (2021-2032) & (US\$/Unit)

Figure 70. World Battery Energy Storage Systems for Data Centers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 71. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Application in 2025

Figure 72. Cloud and Internet Data Centers

Figure 73. Colocation Data Centers

Figure 74. Enterprise Data Centers

Figure 75. Telecom Data Centers

Figure 76. Government and Research Data Centers

Figure 77. Others

Figure 78. World Battery Energy Storage Systems for Data Centers Production Market Share by Application (2021-2032)

Figure 79. World Battery Energy Storage Systems for Data Centers Production Value Market Share by Application (2021-2032)

Figure 80. World Battery Energy Storage Systems for Data Centers Average Price by Application (2021-2032) & (US\$/Unit)

Figure 81. Battery Energy Storage Systems for Data Centers Industry Chain

Figure 82. Battery Energy Storage Systems for Data Centers Procurement Model

Figure 83. Battery Energy Storage Systems for Data Centers Sales Model

Figure 84. Battery Energy Storage Systems for Data Centers Sales Channels, Direct Sales, and Distribution

Figure 85. Methodology

Figure 86. Research Process and Data Source

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