

Global Data Center Power System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center Power System market size is expected to reach \$ 58603 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

Data Center Power is best understood as an end-to-end energy pathway and fault-containment system rather than a single device. It spans the grid interface and distribution layer, the facility backbone built around UPS (double-conversion and modular systems), HVDC (400V / 800V-class DC bus), and the emerging solid-state transformer (SST) concept for fewer conversion stages. It then extends into the IT layer through server-side AC-DC power shelves and board-level DC-DC conversion, plus cabinet busbars and rack power distribution. Between sub-second GPU transients and minute-level ride-through, BBU and supercapacitors (including hybrid supercaps) are increasingly used to shape peaks, stabilize rails, and bridge short interruptions. AI-driven ramp rates and load volatility are forcing Data Center Power decisions to prioritize dynamic stability, maintainability, and fault domain design—not just steady-state efficiency.

The vendor landscape is layered: system integrators providing 'grid-to-rack' solutions, power-shelf and module suppliers closer to the load, and a critical upstream base of power devices and passives. Schneider Electric, Eaton, Vertiv, Huawei Digital Power, Delta, ABB, and Siemens each position Data Center Power as a portfolio play across UPS, switchgear, prefabricated skids/eHouses, monitoring, and lifecycle services—while pushing deeper into HVDC and rack-level architectures. On the IT side, AC-DC/DC-DC shelves and rack ecosystems are advanced by suppliers such as Delta, LiteOn, and Flex, aligned with platform roadmaps. Supply chain emphasis has shifted to power semiconductors (including SiC/GaN), magnetics, high-reliability capacitors, and copper/aluminum bus infrastructure, with downstream execution dominated by standardized engineering, commissioning, and spares/service readiness. Commercially,

procurement is moving toward capacity-reservation and production-line alignment: a major colocation operator recently signed a supply capacity agreement for UPS, low-voltage switchgear, and prefabricated skids to strengthen delivery certainty and supply-chain resilience?illustrating how Data Center Power is becoming ?capacity partnership? business rather than purely project-by-project delivery.

For professionals, Data Center Power is evaluated on a system scorecard: end-to-end efficiency (including part-load), power density (kW per rack / per footprint), transient response under step loads, redundancy topology (N+1/2N/distributed redundancy), selective protection and short-circuit behavior, harmonics and power factor, maintainability (hot-swap, bypass strategy, MTTR), and battery/capacitor safety and lifetime modeling. Technically, the direction is fewer conversion stages and higher DC backbone voltage. 800V-class HVDC is explicitly framed to support racks from ~100 kW toward 1 MW while reducing copper and conversion losses, and SST approaches are being explored to convert medium-voltage AC more directly into an HVDC bus. To handle ?spiky? AI loads, rack-level multi-timescale energy storage is becoming central: BBU for short ride-through and peak shaving, and supercapacitors/hybrid supercaps for second-scale and sub-second stabilization. Reliability events tied to UPS battery failure and cascading behavior have reinforced the need for stronger battery health management, fault isolation, and serviceability as first-class Data Center Power design objectives.

Looking forward, Data Center Power will see structural?not merely incremental?upgrades: (1) a faster shift toward higher-voltage DC backbones (?400V as a transition, 800V as the target for very high rack densities); (2) power conversion migrating out of the rack where possible, with AC-DC/DC-DC shelves, busbars, and board-level conversion competing on density, thermals, and reliability; (3) energy storage separating by timescale?batteries for minutes, supercaps/hybrid supercaps for seconds and sub-seconds?to deliver peak smoothing plus ride-through without overbuilding PSU redundancy; (4) prefabricated, modular delivery (skids/eHouses) to compress schedules and reduce on-site uncertainty; (5) stronger grid-friendliness requirements, integrating UPS/HVDC with microgrid controls, fast switching, ramp management, and power quality; (6) operations moving from monitoring to predictive and semi-autonomous optimization, focused on battery health, hot-spot detection at interconnects, and transient event analytics; and (7) upstream device and materials upgrades (SiC/GaN, magnetics, high-reliability passives) translating directly into higher density and better total lifecycle economics. Net result: competition in Data Center Power is shifting from standalone equipment specs to delivered rack power capability, transient resilience, and maintainability cost.

This report studies the global Data Center Power System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Power System, 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 Data Center Power System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center Power System total market, 2021-2032, (USD Million)

Global Data Center Power System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Data Center Power System total market, key domestic companies, and share, (USD Million)

Global Data Center Power System revenue by player, revenue and market share 2021-2026, (USD Million)

Global Data Center Power System total market by Type, CAGR, 2021-2032, (USD Million)

Global Data Center Power System total market by Data Center, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Data Center Power System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Delta Electronics, LITEON Technology, Schneider, Eaton, Vertiv, ABB, GE, Riello, Legrand, Toshiba, 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 Data Center Power System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Data Center. 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 Data Center Power System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Power System Market, Segmentation by Type:

UPS

HVDC

Solid-state Transformer (SST)

AC-DC

DC-DC

BBU

Supercapacitor

Global Data Center Power System Market, Segmentation by Installation:

External Rack

Internal Rack

Global Data Center Power System Market, Segmentation by Customer:

Cloud Computing Company

Internet Company

Financial

Government

Manufacturing

Others

Global Data Center Power System Market, Segmentation by Data Center:

Onsite Data Centers

Colocation Facilities

Hyperscale Data Centers

Edge Data Centers

Companies Profiled:

Delta Electronics

LITEON Technology

Schneider

Eaton

Vertiv

ABB

GE

Riello

Legrand

Toshiba

Black Box

Generac Power Systems

Rittal

Mean Well

Bel Fuse

Sure Star Computer

GW Instek (Good Will Instrument)

Huawei

Kehua Data

Hangzhou Zhonhen Electric

Anhui Dynamic Power

Kstar Science & Technology

China XD Electric

TBEA

Hainan Jinpan Smart Technology

Shenzhen Megmeet Electrical

Key Questions Answered

1. How big is the global Data Center Power System market?
2. What is the demand of the global Data Center Power System market?
3. What is the year over year growth of the global Data Center Power System market?
4. What is the total value of the global Data Center Power System market?
5. Who are the Major Players in the global Data Center Power System market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Data Center Power System Introduction
- 1.2 World Data Center Power System Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Data Center Power System Total Market by Region (by Headquarter Location)
 - 1.3.1 World Data Center Power System Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company Data Center Power System Revenue (2021-2032)
 - 1.3.3 China Based Company Data Center Power System Revenue (2021-2032)
 - 1.3.4 Europe Based Company Data Center Power System Revenue (2021-2032)
 - 1.3.5 Japan Based Company Data Center Power System Revenue (2021-2032)
 - 1.3.6 South Korea Based Company Data Center Power System Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company Data Center Power System Revenue (2021-2032)
 - 1.3.8 India Based Company Data Center Power System Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Data Center Power System Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Data Center Power System Consumption Value (2021-2032)
- 2.2 World Data Center Power System Consumption Value by Region
 - 2.2.1 World Data Center Power System Consumption Value by Region (2021-2026)
 - 2.2.2 World Data Center Power System Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Data Center Power System Consumption Value (2021-2032)
- 2.4 China Data Center Power System Consumption Value (2021-2032)
- 2.5 Europe Data Center Power System Consumption Value (2021-2032)
- 2.6 Japan Data Center Power System Consumption Value (2021-2032)
- 2.7 South Korea Data Center Power System Consumption Value (2021-2032)
- 2.8 ASEAN Data Center Power System Consumption Value (2021-2032)
- 2.9 India Data Center Power System Consumption Value (2021-2032)

3 WORLD DATA CENTER POWER SYSTEM COMPANIES COMPETITIVE

ANALYSIS

- 3.1 World Data Center Power System Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)
 - 3.2.1 Global Data Center Power System Industry Rank of Major Players
 - 3.2.2 Global Concentration Ratios (CR4) for Data Center Power System in 2025
 - 3.2.3 Global Concentration Ratios (CR8) for Data Center Power System in 2025
- 3.3 Data Center Power System Company Evaluation Quadrant
- 3.4 Data Center Power System Market: Overall Company Footprint Analysis
 - 3.4.1 Data Center Power System Market: Region Footprint
 - 3.4.2 Data Center Power System Market: Company Product Type Footprint
 - 3.4.3 Data Center Power System Market: Company Product Application Footprint
- 3.5 Competitive Environment
 - 3.5.1 Historical Structure of the Industry
 - 3.5.2 Barriers of Market Entry
 - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

- 4.1 United States VS China: Data Center Power System Revenue Comparison (by Headquarter Location)
 - 4.1.1 United States VS China: Data Center Power System Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
 - 4.1.2 United States VS China: Data Center Power System Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: Data Center Power System Consumption Value Comparison
 - 4.2.1 United States VS China: Data Center Power System Consumption Value Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Data Center Power System Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based Data Center Power System Companies and Market Share, 2021-2026
 - 4.3.1 United States Based Data Center Power System Companies, Headquarters (States, Country)
 - 4.3.2 United States Based Companies Data Center Power System Revenue, (2021-2026)

4.4 China Based Companies Data Center Power System Revenue and Market Share, 2021-2026

4.4.1 China Based Data Center Power System Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Data Center Power System Revenue, (2021-2026)

4.5 Rest of World Based Data Center Power System Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Data Center Power System Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Data Center Power System Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Data Center Power System Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 UPS

5.2.2 HVDC

5.2.3 Solid-state Transformer (SST)

5.2.4 AC-DC

5.2.5 DC-DC

5.2.6 BBU

5.2.7 Supercapacitor

5.3 Market Segment by Type

5.3.1 World Data Center Power System Market Size by Type (2021-2026)

5.3.2 World Data Center Power System Market Size by Type (2027-2032)

5.3.3 World Data Center Power System Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY INSTALLATION

6.1 World Data Center Power System Market Size Overview by Installation: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Installation

6.2.1 External Rack

6.2.2 Internal Rack

6.3 Market Segment by Installation

6.3.1 World Data Center Power System Market Size by Installation (2021-2026)

- 6.3.2 World Data Center Power System Market Size by Installation (2027-2032)
- 6.3.3 World Data Center Power System Market Size Market Share by Installation (2027-2032)

7 MARKET ANALYSIS BY CUSTOMER

- 7.1 World Data Center Power System Market Size Overview by Customer: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Customer
 - 7.2.1 Cloud Computing Company
 - 7.2.2 Internet Company
 - 7.2.3 Financial
 - 7.2.4 Government
 - 7.2.5 Manufacturing
 - 7.2.6 Others
- 7.3 Market Segment by Customer
 - 7.3.1 World Data Center Power System Market Size by Customer (2021-2026)
 - 7.3.2 World Data Center Power System Market Size by Customer (2027-2032)
 - 7.3.3 World Data Center Power System Market Size Market Share by Customer (2027-2032)

8 MARKET ANALYSIS BY DATA CENTER

- 8.1 World Data Center Power System Market Size Overview by Data Center: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Data Center
 - 8.2.1 Onsite Data Centers
 - 8.2.2 Colocation Facilities
 - 8.2.3 Hyperscale Data Centers
 - 8.2.4 Edge Data Centers
- 8.3 Market Segment by Data Center
 - 8.3.1 World Data Center Power System Market Size by Data Center (2021-2026)
 - 8.3.2 World Data Center Power System Market Size by Data Center (2027-2032)
 - 8.3.3 World Data Center Power System Market Size Market Share by Data Center (2021-2032)

9 COMPANY PROFILES

- 9.1 Delta Electronics

- 9.1.1 Delta Electronics Details
- 9.1.2 Delta Electronics Major Business
- 9.1.3 Delta Electronics Data Center Power System Product and Services
- 9.1.4 Delta Electronics Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
- 9.1.5 Delta Electronics Recent Developments/Updates
- 9.1.6 Delta Electronics Competitive Strengths & Weaknesses
- 9.2 LITEON Technology
 - 9.2.1 LITEON Technology Details
 - 9.2.2 LITEON Technology Major Business
 - 9.2.3 LITEON Technology Data Center Power System Product and Services
 - 9.2.4 LITEON Technology Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.2.5 LITEON Technology Recent Developments/Updates
 - 9.2.6 LITEON Technology Competitive Strengths & Weaknesses
- 9.3 Schneider
 - 9.3.1 Schneider Details
 - 9.3.2 Schneider Major Business
 - 9.3.3 Schneider Data Center Power System Product and Services
 - 9.3.4 Schneider Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Schneider Recent Developments/Updates
 - 9.3.6 Schneider Competitive Strengths & Weaknesses
- 9.4 Eaton
 - 9.4.1 Eaton Details
 - 9.4.2 Eaton Major Business
 - 9.4.3 Eaton Data Center Power System Product and Services
 - 9.4.4 Eaton Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Eaton Recent Developments/Updates
 - 9.4.6 Eaton Competitive Strengths & Weaknesses
- 9.5 Vertiv
 - 9.5.1 Vertiv Details
 - 9.5.2 Vertiv Major Business
 - 9.5.3 Vertiv Data Center Power System Product and Services
 - 9.5.4 Vertiv Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Vertiv Recent Developments/Updates
 - 9.5.6 Vertiv Competitive Strengths & Weaknesses

9.6 ABB

9.6.1 ABB Details

9.6.2 ABB Major Business

9.6.3 ABB Data Center Power System Product and Services

9.6.4 ABB Data Center Power System Revenue, Gross Margin and Market Share
(2021-2026)

9.6.5 ABB Recent Developments/Updates

9.6.6 ABB Competitive Strengths & Weaknesses

9.7 GE

9.7.1 GE Details

9.7.2 GE Major Business

9.7.3 GE Data Center Power System Product and Services

9.7.4 GE Data Center Power System Revenue, Gross Margin and Market Share
(2021-2026)

9.7.5 GE Recent Developments/Updates

9.7.6 GE Competitive Strengths & Weaknesses

9.8 Riello

9.8.1 Riello Details

9.8.2 Riello Major Business

9.8.3 Riello Data Center Power System Product and Services

9.8.4 Riello Data Center Power System Revenue, Gross Margin and Market Share
(2021-2026)

9.8.5 Riello Recent Developments/Updates

9.8.6 Riello Competitive Strengths & Weaknesses

9.9 Legrand

9.9.1 Legrand Details

9.9.2 Legrand Major Business

9.9.3 Legrand Data Center Power System Product and Services

9.9.4 Legrand Data Center Power System Revenue, Gross Margin and Market Share
(2021-2026)

9.9.5 Legrand Recent Developments/Updates

9.9.6 Legrand Competitive Strengths & Weaknesses

9.10 Toshiba

9.10.1 Toshiba Details

9.10.2 Toshiba Major Business

9.10.3 Toshiba Data Center Power System Product and Services

9.10.4 Toshiba Data Center Power System Revenue, Gross Margin and Market Share
(2021-2026)

9.10.5 Toshiba Recent Developments/Updates

- 9.10.6 Toshiba Competitive Strengths & Weaknesses
- 9.11 Black Box
 - 9.11.1 Black Box Details
 - 9.11.2 Black Box Major Business
 - 9.11.3 Black Box Data Center Power System Product and Services
 - 9.11.4 Black Box Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Black Box Recent Developments/Updates
 - 9.11.6 Black Box Competitive Strengths & Weaknesses
- 9.12 Generac Power Systems
 - 9.12.1 Generac Power Systems Details
 - 9.12.2 Generac Power Systems Major Business
 - 9.12.3 Generac Power Systems Data Center Power System Product and Services
 - 9.12.4 Generac Power Systems Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Generac Power Systems Recent Developments/Updates
 - 9.12.6 Generac Power Systems Competitive Strengths & Weaknesses
- 9.13 Rittal
 - 9.13.1 Rittal Details
 - 9.13.2 Rittal Major Business
 - 9.13.3 Rittal Data Center Power System Product and Services
 - 9.13.4 Rittal Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Rittal Recent Developments/Updates
 - 9.13.6 Rittal Competitive Strengths & Weaknesses
- 9.14 Mean Well
 - 9.14.1 Mean Well Details
 - 9.14.2 Mean Well Major Business
 - 9.14.3 Mean Well Data Center Power System Product and Services
 - 9.14.4 Mean Well Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Mean Well Recent Developments/Updates
 - 9.14.6 Mean Well Competitive Strengths & Weaknesses
- 9.15 Bel Fuse
 - 9.15.1 Bel Fuse Details
 - 9.15.2 Bel Fuse Major Business
 - 9.15.3 Bel Fuse Data Center Power System Product and Services
 - 9.15.4 Bel Fuse Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)

- 9.15.5 Bel Fuse Recent Developments/Updates
- 9.15.6 Bel Fuse Competitive Strengths & Weaknesses
- 9.16 Sure Star Computer
 - 9.16.1 Sure Star Computer Details
 - 9.16.2 Sure Star Computer Major Business
 - 9.16.3 Sure Star Computer Data Center Power System Product and Services
 - 9.16.4 Sure Star Computer Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Sure Star Computer Recent Developments/Updates
 - 9.16.6 Sure Star Computer Competitive Strengths & Weaknesses
- 9.17 GW Instek (Good Will Instrument)
 - 9.17.1 GW Instek (Good Will Instrument) Details
 - 9.17.2 GW Instek (Good Will Instrument) Major Business
 - 9.17.3 GW Instek (Good Will Instrument) Data Center Power System Product and Services
 - 9.17.4 GW Instek (Good Will Instrument) Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.17.5 GW Instek (Good Will Instrument) Recent Developments/Updates
 - 9.17.6 GW Instek (Good Will Instrument) Competitive Strengths & Weaknesses
- 9.18 Huawei
 - 9.18.1 Huawei Details
 - 9.18.2 Huawei Major Business
 - 9.18.3 Huawei Data Center Power System Product and Services
 - 9.18.4 Huawei Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Huawei Recent Developments/Updates
 - 9.18.6 Huawei Competitive Strengths & Weaknesses
- 9.19 Kehua Data
 - 9.19.1 Kehua Data Details
 - 9.19.2 Kehua Data Major Business
 - 9.19.3 Kehua Data Data Center Power System Product and Services
 - 9.19.4 Kehua Data Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Kehua Data Recent Developments/Updates
 - 9.19.6 Kehua Data Competitive Strengths & Weaknesses
- 9.20 Hangzhou Zhonhen Electric
 - 9.20.1 Hangzhou Zhonhen Electric Details
 - 9.20.2 Hangzhou Zhonhen Electric Major Business
 - 9.20.3 Hangzhou Zhonhen Electric Data Center Power System Product and Services

- 9.20.4 Hangzhou Zhonhen Electric Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
- 9.20.5 Hangzhou Zhonhen Electric Recent Developments/Updates
- 9.20.6 Hangzhou Zhonhen Electric Competitive Strengths & Weaknesses
- 9.21 Anhui Dynamic Power
 - 9.21.1 Anhui Dynamic Power Details
 - 9.21.2 Anhui Dynamic Power Major Business
 - 9.21.3 Anhui Dynamic Power Data Center Power System Product and Services
 - 9.21.4 Anhui Dynamic Power Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.21.5 Anhui Dynamic Power Recent Developments/Updates
 - 9.21.6 Anhui Dynamic Power Competitive Strengths & Weaknesses
- 9.22 Kstar Science & Technology
 - 9.22.1 Kstar Science & Technology Details
 - 9.22.2 Kstar Science & Technology Major Business
 - 9.22.3 Kstar Science & Technology Data Center Power System Product and Services
 - 9.22.4 Kstar Science & Technology Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.22.5 Kstar Science & Technology Recent Developments/Updates
 - 9.22.6 Kstar Science & Technology Competitive Strengths & Weaknesses
- 9.23 China XD Electric
 - 9.23.1 China XD Electric Details
 - 9.23.2 China XD Electric Major Business
 - 9.23.3 China XD Electric Data Center Power System Product and Services
 - 9.23.4 China XD Electric Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.23.5 China XD Electric Recent Developments/Updates
 - 9.23.6 China XD Electric Competitive Strengths & Weaknesses
- 9.24 TBEA
 - 9.24.1 TBEA Details
 - 9.24.2 TBEA Major Business
 - 9.24.3 TBEA Data Center Power System Product and Services
 - 9.24.4 TBEA Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.24.5 TBEA Recent Developments/Updates
 - 9.24.6 TBEA Competitive Strengths & Weaknesses
- 9.25 Hainan Jinpan Smart Technology
 - 9.25.1 Hainan Jinpan Smart Technology Details
 - 9.25.2 Hainan Jinpan Smart Technology Major Business

9.25.3 Hainan Jinpan Smart Technology Data Center Power System Product and Services

9.25.4 Hainan Jinpan Smart Technology Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)

9.25.5 Hainan Jinpan Smart Technology Recent Developments/Updates

9.25.6 Hainan Jinpan Smart Technology Competitive Strengths & Weaknesses

9.26 Shenzhen Megmeet Electrical

9.26.1 Shenzhen Megmeet Electrical Details

9.26.2 Shenzhen Megmeet Electrical Major Business

9.26.3 Shenzhen Megmeet Electrical Data Center Power System Product and Services

9.26.4 Shenzhen Megmeet Electrical Data Center Power System Revenue, Gross Margin and Market Share (2021-2026)

9.26.5 Shenzhen Megmeet Electrical Recent Developments/Updates

9.26.6 Shenzhen Megmeet Electrical Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Data Center Power System Industry Chain

10.2 Data Center Power System Upstream Analysis

10.3 Data Center Power System Midstream Analysis

10.4 Data Center Power System Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Data Center Power System Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Data Center Power System Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Data Center Power System Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Data Center Power System Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Data Center Power System Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Data Center Power System Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Data Center Power System Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Data Center Power System Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Data Center Power System Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Data Center Power System Players in 2025

Table 12. World Data Center Power System Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Data Center Power System Company Evaluation Quadrant

Table 14. Head Office of Key Data Center Power System Players

Table 15. Data Center Power System Market: Company Product Type Footprint

Table 16. Data Center Power System Market: Company Product Application Footprint

Table 17. Data Center Power System Mergers & Acquisitions Activity

Table 18. United States VS China Data Center Power System Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Data Center Power System Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Data Center Power System Companies, Headquarters (States, Country)

Table 21. United States Based Companies Data Center Power System Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Data Center Power System Revenue Market Share (2021-2026)

Table 23. China Based Data Center Power System Companies, Headquarters (Province, Country)

Table 24. China Based Companies Data Center Power System Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Data Center Power System Revenue Market Share (2021-2026)

Table 26. Rest of World Based Data Center Power System Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Data Center Power System Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Data Center Power System Revenue Market Share (2021-2026)

Table 29. World Data Center Power System Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Data Center Power System Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Data Center Power System Market Size by Type (2027-2032) & (USD Million)

Table 32. World Data Center Power System Market Size by Installation, (USD Million), 2021 & 2025 & 2032

Table 33. World Data Center Power System Market Size Value by Installation (2021-2026) & (USD Million)

Table 34. World Data Center Power System Market Size by Installation (2027-2032) & (USD Million)

Table 35. World Data Center Power System Market Size by Customer, (USD Million), 2021 & 2025 & 2032

Table 36. World Data Center Power System Market Size Value by Customer (2021-2026) & (USD Million)

Table 37. World Data Center Power System Market Size by Customer (2027-2032) & (USD Million)

Table 38. World Data Center Power System Market Size by Data Center, (USD Million), 2021 & 2025 & 2032

Table 39. World Data Center Power System Market Size by Data Center (2021-2026) & (USD Million)

Table 40. World Data Center Power System Market Size by Data Center (2027-2032) & (USD Million)

Table 41. Delta Electronics Basic Information, Manufacturing Base and Competitors

- Table 42. Delta Electronics Major Business
- Table 43. Delta Electronics Data Center Power System Product and Services
- Table 44. Delta Electronics Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 45. Delta Electronics Recent Developments/Updates
- Table 46. Delta Electronics Competitive Strengths & Weaknesses
- Table 47. LITEON Technology Basic Information, Manufacturing Base and Competitors
- Table 48. LITEON Technology Major Business
- Table 49. LITEON Technology Data Center Power System Product and Services
- Table 50. LITEON Technology Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 51. LITEON Technology Recent Developments/Updates
- Table 52. LITEON Technology Competitive Strengths & Weaknesses
- Table 53. Schneider Basic Information, Manufacturing Base and Competitors
- Table 54. Schneider Major Business
- Table 55. Schneider Data Center Power System Product and Services
- Table 56. Schneider Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 57. Schneider Recent Developments/Updates
- Table 58. Schneider Competitive Strengths & Weaknesses
- Table 59. Eaton Basic Information, Manufacturing Base and Competitors
- Table 60. Eaton Major Business
- Table 61. Eaton Data Center Power System Product and Services
- Table 62. Eaton Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 63. Eaton Recent Developments/Updates
- Table 64. Eaton Competitive Strengths & Weaknesses
- Table 65. Vertiv Basic Information, Manufacturing Base and Competitors
- Table 66. Vertiv Major Business
- Table 67. Vertiv Data Center Power System Product and Services
- Table 68. Vertiv Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 69. Vertiv Recent Developments/Updates
- Table 70. Vertiv Competitive Strengths & Weaknesses
- Table 71. ABB Basic Information, Manufacturing Base and Competitors
- Table 72. ABB Major Business
- Table 73. ABB Data Center Power System Product and Services
- Table 74. ABB Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

- Table 75. ABB Recent Developments/Updates
- Table 76. ABB Competitive Strengths & Weaknesses
- Table 77. GE Basic Information, Manufacturing Base and Competitors
- Table 78. GE Major Business
- Table 79. GE Data Center Power System Product and Services
- Table 80. GE Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 81. GE Recent Developments/Updates
- Table 82. GE Competitive Strengths & Weaknesses
- Table 83. Riello Basic Information, Manufacturing Base and Competitors
- Table 84. Riello Major Business
- Table 85. Riello Data Center Power System Product and Services
- Table 86. Riello Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 87. Riello Recent Developments/Updates
- Table 88. Riello Competitive Strengths & Weaknesses
- Table 89. Legrand Basic Information, Manufacturing Base and Competitors
- Table 90. Legrand Major Business
- Table 91. Legrand Data Center Power System Product and Services
- Table 92. Legrand Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 93. Legrand Recent Developments/Updates
- Table 94. Legrand Competitive Strengths & Weaknesses
- Table 95. Toshiba Basic Information, Manufacturing Base and Competitors
- Table 96. Toshiba Major Business
- Table 97. Toshiba Data Center Power System Product and Services
- Table 98. Toshiba Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 99. Toshiba Recent Developments/Updates
- Table 100. Toshiba Competitive Strengths & Weaknesses
- Table 101. Black Box Basic Information, Manufacturing Base and Competitors
- Table 102. Black Box Major Business
- Table 103. Black Box Data Center Power System Product and Services
- Table 104. Black Box Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 105. Black Box Recent Developments/Updates
- Table 106. Black Box Competitive Strengths & Weaknesses
- Table 107. Generac Power Systems Basic Information, Manufacturing Base and Competitors

- Table 108. Generac Power Systems Major Business
- Table 109. Generac Power Systems Data Center Power System Product and Services
- Table 110. Generac Power Systems Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 111. Generac Power Systems Recent Developments/Updates
- Table 112. Generac Power Systems Competitive Strengths & Weaknesses
- Table 113. Rittal Basic Information, Manufacturing Base and Competitors
- Table 114. Rittal Major Business
- Table 115. Rittal Data Center Power System Product and Services
- Table 116. Rittal Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 117. Rittal Recent Developments/Updates
- Table 118. Rittal Competitive Strengths & Weaknesses
- Table 119. Mean Well Basic Information, Manufacturing Base and Competitors
- Table 120. Mean Well Major Business
- Table 121. Mean Well Data Center Power System Product and Services
- Table 122. Mean Well Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 123. Mean Well Recent Developments/Updates
- Table 124. Mean Well Competitive Strengths & Weaknesses
- Table 125. Bel Fuse Basic Information, Manufacturing Base and Competitors
- Table 126. Bel Fuse Major Business
- Table 127. Bel Fuse Data Center Power System Product and Services
- Table 128. Bel Fuse Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 129. Bel Fuse Recent Developments/Updates
- Table 130. Bel Fuse Competitive Strengths & Weaknesses
- Table 131. Sure Star Computer Basic Information, Manufacturing Base and Competitors
- Table 132. Sure Star Computer Major Business
- Table 133. Sure Star Computer Data Center Power System Product and Services
- Table 134. Sure Star Computer Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 135. Sure Star Computer Recent Developments/Updates
- Table 136. Sure Star Computer Competitive Strengths & Weaknesses
- Table 137. GW Instek (Good Will Instrument) Basic Information, Manufacturing Base and Competitors
- Table 138. GW Instek (Good Will Instrument) Major Business
- Table 139. GW Instek (Good Will Instrument) Data Center Power System Product and Services

- Table 140. GW Instek (Good Will Instrument) Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 141. GW Instek (Good Will Instrument) Recent Developments/Updates
- Table 142. GW Instek (Good Will Instrument) Competitive Strengths & Weaknesses
- Table 143. Huawei Basic Information, Manufacturing Base and Competitors
- Table 144. Huawei Major Business
- Table 145. Huawei Data Center Power System Product and Services
- Table 146. Huawei Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 147. Huawei Recent Developments/Updates
- Table 148. Huawei Competitive Strengths & Weaknesses
- Table 149. Kehua Data Basic Information, Manufacturing Base and Competitors
- Table 150. Kehua Data Major Business
- Table 151. Kehua Data Data Center Power System Product and Services
- Table 152. Kehua Data Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 153. Kehua Data Recent Developments/Updates
- Table 154. Kehua Data Competitive Strengths & Weaknesses
- Table 155. Hangzhou Zhonhen Electric Basic Information, Manufacturing Base and Competitors
- Table 156. Hangzhou Zhonhen Electric Major Business
- Table 157. Hangzhou Zhonhen Electric Data Center Power System Product and Services
- Table 158. Hangzhou Zhonhen Electric Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 159. Hangzhou Zhonhen Electric Recent Developments/Updates
- Table 160. Hangzhou Zhonhen Electric Competitive Strengths & Weaknesses
- Table 161. Anhui Dynamic Power Basic Information, Manufacturing Base and Competitors
- Table 162. Anhui Dynamic Power Major Business
- Table 163. Anhui Dynamic Power Data Center Power System Product and Services
- Table 164. Anhui Dynamic Power Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 165. Anhui Dynamic Power Recent Developments/Updates
- Table 166. Anhui Dynamic Power Competitive Strengths & Weaknesses
- Table 167. Kstar Science & Technology Basic Information, Manufacturing Base and Competitors
- Table 168. Kstar Science & Technology Major Business
- Table 169. Kstar Science & Technology Data Center Power System Product and

Services

Table 170. Kstar Science & Technology Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 171. Kstar Science & Technology Recent Developments/Updates

Table 172. Kstar Science & Technology Competitive Strengths & Weaknesses

Table 173. China XD Electric Basic Information, Manufacturing Base and Competitors

Table 174. China XD Electric Major Business

Table 175. China XD Electric Data Center Power System Product and Services

Table 176. China XD Electric Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 177. China XD Electric Recent Developments/Updates

Table 178. China XD Electric Competitive Strengths & Weaknesses

Table 179. TBEA Basic Information, Manufacturing Base and Competitors

Table 180. TBEA Major Business

Table 181. TBEA Data Center Power System Product and Services

Table 182. TBEA Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 183. TBEA Recent Developments/Updates

Table 184. TBEA Competitive Strengths & Weaknesses

Table 185. Hainan Jinpan Smart Technology Basic Information, Manufacturing Base and Competitors

Table 186. Hainan Jinpan Smart Technology Major Business

Table 187. Hainan Jinpan Smart Technology Data Center Power System Product and Services

Table 188. Hainan Jinpan Smart Technology Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 189. Hainan Jinpan Smart Technology Recent Developments/Updates

Table 190. Hainan Jinpan Smart Technology Competitive Strengths & Weaknesses

Table 191. Shenzhen Megmeet Electrical Basic Information, Manufacturing Base and Competitors

Table 192. Shenzhen Megmeet Electrical Major Business

Table 193. Shenzhen Megmeet Electrical Data Center Power System Product and Services

Table 194. Shenzhen Megmeet Electrical Data Center Power System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 195. Shenzhen Megmeet Electrical Recent Developments/Updates

Table 196. Shenzhen Megmeet Electrical Competitive Strengths & Weaknesses

Table 197. Global Key Players of Data Center Power System Upstream (Raw Materials)

Table 198. Global Data Center Power System Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Data Center Power System Picture

Figure 2. World Data Center Power System Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Data Center Power System Total Revenue (2021-2032) & (USD Million)

Figure 4. World Data Center Power System Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Data Center Power System Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Data Center Power System Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Data Center Power System Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Data Center Power System Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Data Center Power System Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Data Center Power System Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Data Center Power System Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Data Center Power System Revenue (2021-2032) & (USD Million)

Figure 13. Data Center Power System Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Data Center Power System Consumption Value (2021-2032) & (USD Million)

Figure 16. World Data Center Power System Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Data Center Power System Consumption Value (2021-2032) & (USD Million)

Figure 18. China Data Center Power System Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Data Center Power System Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Data Center Power System Consumption Value (2021-2032) & (USD Million)

Million)

Figure 21. South Korea Data Center Power System Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Data Center Power System Consumption Value (2021-2032) & (USD Million)

Figure 23. India Data Center Power System Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Data Center Power System by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Data Center Power System Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Data Center Power System Markets in 2025

Figure 27. United States VS China: Data Center Power System Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Data Center Power System Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Data Center Power System Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Data Center Power System Market Size Market Share by Type in 2025

Figure 31. UPS

Figure 32. HVDC

Figure 33. Solid-state Transformer (SST)

Figure 34. AC-DC

Figure 35. DC-DC

Figure 36. BBU

Figure 37. Supercapacitor

Figure 38. Supercapacitor

Figure 39. World Data Center Power System Market Size Market Share by Type (2021-2032)

Figure 40. World Data Center Power System Market Size by Installation, (USD Million), 2021 & 2025 & 2032

Figure 41. World Data Center Power System Market Size Market Share by Installation in 2025

Figure 42. External Rack

Figure 43. Internal Rack

Figure 44. World Data Center Power System Market Size Market Share by Installation (2021-2032)

Figure 45. World Data Center Power System Market Size by Customer, (USD Million), 2021 & 2025 & 2032

Figure 46. World Data Center Power System Market Size Market Share by Customer in 2025

Figure 47. Cloud Computing Company

Figure 48. Internet Company

Figure 49. Financial

Figure 50. Government

Figure 51. Manufacturing

Figure 52. Others

Figure 53. World Data Center Power System Market Size Market Share by Customer (2021-2032)

Figure 54. World Data Center Power System Market Size by Data Center, (USD Million), 2021 & 2025 & 2032

Figure 55. World Data Center Power System Market Size Market Share by Data Center in 2025

Figure 56. Onsite Data Centers

Figure 57. Colocation Facilities

Figure 58. Hyperscale Data Centers

Figure 59. Edge Data Centers

Figure 60. World Data Center Power System Market Size Market Share by Data Center (2021-2032)

Figure 61. Data Center Power System Industrial Chain

Figure 62. Methodology

Figure 63. Research Process and Data Source

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