

Global Data Center Uninterrupted Power Supply (UPS) Market - Industry Trends and Forecast to 2030

Market Report | 2023-08-01 | 571 pages | Data Bridge Market Research

AVAILABLE LICENSES:

- Single User License \$4800.00
- Corporate Users License \$7000.00

Report description:

Global data center uninterrupted power supply (UPS) market is projected to register a CAGR of 6.4% in the forecast period of 2023 to 2030. The new market report contains data for historic year 2021, the base year of calculation is 2022 and the forecast period is 2023 to 2030.

Market Segmentation:

Global Data Center Uninterrupted Power Supply (UPS) Market, By Type (On-Line Double-Conversion, Line Interactive, and Passive Standby), Offering (Solution, Services), Capacity (Below 500 KVA, 500-1000 KVA and Above 1000 KVA), Battery Type (VRLA UPS, Lithium-Ion UPS, Flywheel Ups and Others), Data Center Type (Colocation Data Center, Enterprise Data Center, Cloud And Edge Data Center And Managed Data Center), Data Center Size (Small, Medium and Large), Application (Cloud Storage, Data Warehouse, ERP System, File Servers, Application Servers, CRM Systems and others), End-User (IT & ITES, BFSI, Telecommunications, Manufacturing, Government and Public Sector, Healthcare and Life Sciences And Media and Entertainment, Region (North America, Europe, Asia-Pacific, Middle East and Africa) - Industry Trends and Forecast to 2030
Overview of Global Data Center Uninterrupted Power Supply (UPS) Market Dynamics

Driver

- Rising Demand for Data Centers

Restrain

- Advances in Energy Storage Technology

Opportunity

- Rising Demand for Data Centers

Market Players

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Some of the major players operating in global data center uninterrupted power supply (ups) market are:

- ABB
- Schneider Electric
- Eaton
- Vertiv Group Corp
- Mitsubishi Electric Power Products Inc.
- General Electric
- LEGRAND GROUP
- Delta Electronics, Inc.
- Huawei Digital Power Technologies Co., Ltd.
- Toshiba International Corporation
- Power Innovations International, Inc
- SOCOMEC
- Borri S.p.A.
- RPS Spa
- AEG Power Solutions
- Fuji Electric Co., Ltd.
- Hitachi, Ltd.
- Kohler Co.
- SolarEdge Technologies, Inc.
- Piller Power Systems (Langley Holdings plc)
- Cyber Power Systems (USA), Inc.
- Kehua Data Co., Ltd.
- Clary Corporation
- Shenzhen Kstar Science&Technology Co.,Ltd.
- ENERSYS
- Panduit Corp.

Table of Contents:

TABLE OF CONTENTS	
1 INTRODUCTION	64
1.1 OBJECTIVES OF THE STUDY	64
1.2 MARKET DEFINITION	64
1.3 OVERVIEW OF THE GLOBAL DATA CENTER UNINTERRUPTED POWER SUPPLY (UPS) MARKET	64
1.4 CURRENCY AND PRICING	67
1.5 LIMITATIONS	67
1.6 MARKETS COVERED	67
2 MARKET SEGMENTATION	71
2.1 MARKETS COVERED	71
2.2 YEARS CONSIDERED FOR THE STUDY	72
2.3 GEOGRAPHIC SCOPE	73
2.4 DBMR TRIPOD DATA VALIDATION MODEL	74
2.5 PRIMARY INTERVIEWS WITH KEY OPINION LEADERS	77
2.6 DBMR MARKET POSITION GRID	78
2.7 VENDOR SHARE ANALYSIS	80

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

2.8 MARKET APPLICATION COVERAGE GRID	81
2.9 MULTIVARIATE MODELLING	82
2.10 TYPE TIMELINE CURVE	83
2.11 SECONDARY SOURCES	84
2.12 ASSUMPTIONS	84
3 EXECUTIVE SUMMARY	85
4 PREMIUM INSIGHTS	90
4.1 PORTER'S 5 FORCES ANALYSIS	91
4.2 VALUE CHAIN ANALYSIS	92
4.3 CASE STUDIES	95
4.3.1 SHIPPING PERFORMANCE EVALUATION OF POWER QUALITY MITIGATING EQUIPMENT: A CASE STUDY OF UNINTERRUPTED POWER SUPPLY (UPS) APPLICATIONS IN ILARO	95
4.3.2 RIELLO UPS	95
4.3.3 9900B SERIES UPS	96
4.3.4 LEAD PROVIDING UNINTERRUPTED POWER	96
4.4 TECHNOLOGY LANDSCAPE	98
4.5 PRICING ANALYSIS	100
4.5.1 APC BY SCHNEIDER ELECTRIC EASY UPS 3L	100
4.5.2 EATON POWER XPRT 9395	100?
4.6 SECTOR WISE MAJOR UPS COMPANIES	102
4.6.1 DATA CENTERS	102
4.6.2 GRID SCALE	102
4.6.3 HOME SOLAR	103
4.6.4 OTHERS (HOME, COMPUTER DEVICES, COMMERCIAL SPACES ETC.)	103
4.7 REGULATORY STANDARDS	104
4.7.1 IEC 62040-1:	104
4.7.2 UL 1778:	104
4.7.3 EN 62040-3:	104
4.7.4 ENERGY STAR CERTIFICATION:	104
4.7.5 ISO 50001	104
4.7.6 NERC/FERC REGULATIONS (USA):	104
4.7.7 NFPA 70: NATIONAL ELECTRICAL CODE (NEC):	105
4.7.8 CE MARKING (EU):	105
4.7.9 ASHRAE STANDARDS:	105
4.7.10 EPA EMISSION STANDARDS (USA):	105
4.7.11 THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 1547 STANDARD	105
4.7.12 THE NATIONAL ELECTRICAL CODE (NEC)	105
4.7.13 THE CANADIAN ELECTRICAL CODE (CEC)	105
4.7.14 THE EUROPEAN UNION (EU) LOW VOLTAGE DIRECTIVE	105
4.7.15 EN62040	106
4.7.16 ANSI/BICSI 002-2014	106
4.7.17 ANSI/TIA 942-A 2014	106
4.7.18 EN 50600: AN INTERNATIONAL STANDARD	106
4.7.19 ENERGY EFFICIENCY AND SUSTAINABILITY	106
4.7.20 RELIABILITY AND REDUNDANCY	106
4.7.21 ELECTROMAGNETIC COMPATIBILITY (EMC)	106
4.7.22 PHYSICAL LAYOUT AND SPACE ALLOCATION	107

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

4.7.23 COOLING AND VENTILATION	107
4.7.24 MONITORING AND MANAGEMENT	107
4.7.25 SAFETY AND COMPLIANCE	107
4.7.26 OPERATIONAL STANDARDS	107?
5 MARKET OVERVIEW	108
5.1 DRIVERS	110
5.1.1 ESCALATING GLOBAL POWER SCARCITY COUPLED WITH AN INCREASING INCIDENCE OF OUTAGES	110
5.1.2 SURGE IN DEMAND FOR RENEWABLE ENERGY INTEGRATION IN UPS	112
5.1.3 RISING DEMAND FOR ENERGY EFFICIENCY IN DATA CENTER	114
5.1.4 INCREASING DEMAND FOR DATA CENTER IN VARIOUS APPLICATIONS	116
5.2 RESTRAINTS	117
5.2.1 HIGH CAPITAL AND OPERATIONAL EXPENDITURE OF UPS	117
5.2.2 HIGH DEPLOYMENT COMPLEXITY DUE TO TECHNOLOGICAL AND COMPATIBILITY ISSUES	118
5.2.3 RISING ENVIRONMENTAL CONCERNS DUE TO THE HIGH CARBON FOOTPRINT OF DATA CENTERS	120
5.3 OPPORTUNITIES	122
5.3.1 INCREASING DATA CENTER INVESTMENTS BY VARIOUS ORGANIZATIONS	122
5.3.2 INCREASING ENERGY STORAGE TECHNOLOGY INNOVATIONS	123
5.3.3 RISING IOT-ENABLED UPS SYSTEMS FOR IMPROVED MONITORING AND REMOTE MANAGEMENT CAPABILITIES	125
5.4 CHALLENGES	126
5.4.1 THE NEED FOR SKILLED PROFESSIONALS TO INSTALL AND MAINTAIN UPS SYSTEMS	126
5.4.2 RISE IN CYBER SECURITY CONCERNS	127
6 GLOBAL DATA CENTER UNINTERRUPTED POWER SUPPLY (UPS) MARKET, BY TYPE	129
6.1 OVERVIEW	130
6.2 ON-LINE DOUBLE-CONVERSION	131
6.3 LINE INTERACTIVE	132
6.4 PASSIVE STANDBY	132
7 GLOBAL DATA CENTER UNINTERRUPTED POWER SUPPLY (UPS) MARKET, BY OFFERING	133
7.1 OVERVIEW	134
7.2 SOLUTION	135
7.3 SERVICES	136
7.3.1 MANAGED SERVICES	136
7.3.2 PROFESSIONAL SERVICES	136?
8 GLOBAL DATA CENTER UNINTERRUPTED POWER SUPPLY (UPS) MARKET, BY CAPACITY	137
8.1 OVERVIEW	138
8.2 BELOW 500 KVA	139
8.3 500 - 1000 KVA	140
8.4 ABOVE 1000 KVA	140
9 GLOBAL DATA CENTER UNINTERRUPTED POWER SUPPLY (UPS) MARKET, BY BATTERY TYPE	141
9.1 OVERVIEW	142
9.2 VRLA UPS	143
9.3 LITHIUM - ION UPS	144
9.4 FLYWHEEL UPS	144
9.5 OTHERS	145
10 GLOBAL DATA CENTER UNINTERRUPTED POWER SUPPLY (UPS) MARKET, BY DATA CENTER TYPE	146
10.1 OVERVIEW	147
10.2 COLOCATION DATA CENTER	148
10.2.1 BELOW 500 KVA	149

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 10.2.2 500 - 1000 KVA 149
- 10.2.3 ABOVE 1000 KVA 149
- 10.3 ENTERPRISE DATA CENTER 149
 - 10.3.1 BELOW 500 KVA 150
 - 10.3.2 500 - 1000 KVA 150
 - 10.3.3 ABOVE 1000 KVA 150
- 10.4 CLOUD AND EDGE DATA CENTER 150
 - 10.4.1 BELOW 500 KVA 151
 - 10.4.2 500 - 1000 KVA 151
 - 10.4.3 ABOVE 1000 KVA 151
- 10.5 MANAGED DATA CENTER 151
 - 10.5.1 BELOW 500 KVA 152
 - 10.5.2 500 - 1000 KVA 152
 - 10.5.3 ABOVE 1000 KVA 152?
- 11 GLOBAL DATA CENTER UNINTERRUPTED POWER SUPPLY (UPS) MARKET, BY DATA CENTER SIZE 153
 - 11.1 OVERVIEW 154
 - 11.2 SMALL 155
 - 11.3 MEDIUM 156
 - 11.4 LARGE 156
- 12 GLOBAL DATA CENTER UNINTERRUPTED POWER SUPPLY (UPS) MARKET, BY APPLICATION 157
 - 12.1 OVERVIEW 158
 - 12.2 CLOUD STORAGE 159
 - 12.3 DATA WAREHOUSE 160
 - 12.4 ERP SYSTEM 160
 - 12.5 FILE SERVERS 161
 - 12.6 APPLICATION SERVER 161
 - 12.7 CRM 162
 - 12.8 OTHERS 162
- 13 GLOBAL DATA CENTER UNINTERRUPTED POWER SUPPLY (UPS) MARKET, BY END USER 163
 - 13.1 OVERVIEW 164
 - 13.2 IT & ITES 165
 - 13.2.1 ON-LINE DOUBLE-CONVERSION 166
 - 13.2.2 LINE INTERACTIVE 166
 - 13.2.3 PASSIVE STANDBY 166
 - 13.3 BFSI 166
 - 13.3.1 ON-LINE DOUBLE-CONVERSION 167
 - 13.3.2 LINE INTERACTIVE 167
 - 13.3.3 PASSIVE STANDBY 167
 - 13.4 TELECOMMUNICATIONS 167
 - 13.4.1 ON-LINE DOUBLE-CONVERSION 168
 - 13.4.2 LINE INTERACTIVE 168
 - 13.4.3 PASSIVE STANDBY 168
 - 13.5 MANUFACTURING 168
 - 13.5.1 ON-LINE DOUBLE-CONVERSION 169
 - 13.5.2 LINE INTERACTIVE 169
 - 13.5.3 PASSIVE STANDBY 169?
 - 13.6 GOVERNMENT AND PUBLIC SECTOR 169

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 13.6.1 ON-LINE DOUBLE-CONVERSION 170
- 13.6.2 LINE INTERACTIVE 170
- 13.6.3 PASSIVE STANDBY 170
- 13.7 HEALTHCARE AND LIFE SCIENCES 170
- 13.7.1 ON-LINE DOUBLE-CONVERSION 171
- 13.7.2 LINE INTERACTIVE 171
- 13.7.3 PASSIVE STANDBY 171
- 13.8 MEDIA AND ENTERTAINMENT 171
- 13.8.1 ON-LINE DOUBLE-CONVERSION 172
- 13.8.2 LINE INTERACTIVE 172
- 13.8.3 PASSIVE STANDBY 172
- 14 GLOBAL DATA CENTER UNINTERRUPTED POWER SUPPLY (UPS) MARKET, BY REGION 173
- 14.1 OVERVIEW 174
- 14.2 NORTH AMERICA 178
- 14.2.1 U.S. 184
- 14.2.2 CANADA 190
- 14.2.3 MEXICO 196
- 14.3 EUROPE 202
- 14.3.1 GERMANY 210
- 14.3.2 U.K. 217
- 14.3.3 FRANCE 224
- 14.3.4 NETHERLANDS 231
- 14.3.5 ITALY 238
- 14.3.6 RUSSIA 245
- 14.3.7 SPAIN 252
- 14.3.8 TURKEY 259
- 14.3.9 SWITZERLAND 266
- 14.3.10 SWEDEN 273
- 14.3.11 POLAND 280
- 14.3.12 BELGIUM 287
- 14.3.13 NORWAY 294
- 14.3.14 DENMARK 301
- 14.3.15 FINLAND 308
- 14.3.16 REST OF EUROPE 315

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Global Data Center Uninterrupted Power Supply (UPS) Market - Industry Trends and Forecast to 2030

Market Report | 2023-08-01 | 571 pages | Data Bridge Market Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4800.00
	Corporate Users License	\$7000.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-11"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com