

Product datasheet

Specifications



Symmetra PX 500kW Scalable to 500kW with Right Mounted Maintenance Bypass and Distribution

SY500K500DR-PD

Overview

| | |
|---------------------|---|
| Presentation | A high-performance, 3-phase, modular, scalable, power protection solution with industry-leading efficiency, capacity, and performance for medium to large data centers and mission critical environments. |
| Lead Time | Usually Ships within 6 Weeks |

Main

| | |
|------------------------------|--|
| Main Input Voltage | 480 V 3 phases 400 V 3 phases |
| Other Input Voltage | 415 V |
| Main Output Voltage | 480 V 3 phases 400 V 3 phases |
| Other Output Voltage | 380 V 415 V |
| Rated Power In W | 500000 W |
| Rated Power In Va | 500000 VA |
| Output Connector Type | Hard wire 4-wire (3P + E) 1 Hard wire 5-wire (3P + N + E) 1 |
| Battery Type | VRLA |
| Provided Equipment | Assembly service Installation guide Network management card Start-up service User manual |

Batteries & Runtime

| | |
|---|---|
| Run Time | View Runtime Graph |
| Efficiency | View Efficiency Graph |
| Number Of Battery Filled Slots | 32 |
| Number Of Battery Free Slots | 0 |
| Battery Recharge Time | 3.5 h |
| Number Of Battery Replacement Quantity | 6 |
| Battery Overload Operation | 10 minutes at 125% and 60 seconds at 150% |
| Battery Charger Power | 47262 W rated |
| Battery Design Life | 5...8 year(s) |
| Extended Runtime | 1 |

General

| | |
|-------------------------------------|---|
| Bypass Voltage Tolerance | +/- 10 % settable from +/- 4/6/8 and 10 % |
| Number Of Power Module Free Slots | 0 |
| Number Of Power Module Filled Slots | 20 |
| Redundant | Yes |

Physical

| | |
|----------------|----------|
| Colour | Black |
| Height | 199.1 cm |
| Width | 520 cm |
| Depth | 107 cm |
| Net Weight | 8521 kg |
| Usb Compatible | No |

Input

| | |
|----------------------------------|--|
| Network Frequency | 40...70 Hz auto-sensing |
| Number Of Input Connectors | 1 hard wire 4-wire (3P + E) 1 hard wire 5-wire (3P + N + E) |
| Input Voltage Limits | 340...460 V 400 V 408...552 V 480 V |
| Max Short Time Withstand Current | 50 kA |
| Input Harmonic Distortion | Less than 5 % for full load |
| Input Protection Type | 3-pole circuit breaker |
| Load Power Factor | 0.5 leading to 0.5 lagging |
| Input Power Factor At Full Load | 0.99 |

Output

| | |
|----------------------------------|--|
| Maximum Configurable Power In W | 500000 W |
| Harmonic Distortion | Less than 2 % |
| Output Frequency | 50 Hz sync to mains 60 Hz +/- 0.1 % for 60 Hz nominal unsynchronised 50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised 60 Hz sync to mains |
| Ups Type | Double conversion online |
| Wave Type | Sine wave |
| Output Voltage Tolerance | +/- 1% static and +/- 5% at 100% load step |
| Output Harmonic Distortion | < 2% linear load and < 3% non-linear load |
| Output Overload Operation | 10 minutes at 125% and 60 seconds at 150% |
| Bypass Type | Built-in maintenance bypass Built-in static bypass |
| Efficiency | 96 % (in battery operation) |
| Maximum Configurable Power In Va | 500000 VA |
| Transfer Time | 2 ms typical |

Conformance

| | |
|-------------------------------|--|
| Product Certifications | cUL listed EUROBAT UL listed |
| Standards | CSA C22.2 No 107.3-05 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3 UL 1778 UL 60950-1 |

Environmental

| | |
|--|-------------------|
| Ambient Air Temperature For Operation | 0...40 °C |
| Relative Humidity | 0...95 % |
| Operating Altitude | 0...3333 ft |
| Ambient Air Temperature For Storage | -15...40 °C |
| Storage Relative Humidity | 0...95 % |
| Storage Altitude | 0.00...15240.00 m |
| Acoustic Level | 54 dBA |
| Heat Dissipation | 61893 Btu/h |
| Nema Degree Of Protection | NEMA 1 |
| Ip Degree Of Protection | IP20 |

Communications & Management

| | |
|----------------------------|--|
| Free Slots | 1 |
| Preinstalled Device | Network management card 2 with environmental monitoring, out of band access and Modbus |
| Control Panel | Touch screen LCD user interface |
| Emergency Power Off | Optional |

Packing Units

| | |
|-------------------------------------|---------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 215 cm |
| Package 1 Width | 127 cm |
| Package 1 Length | 710 cm |
| Package 1 Weight | 9314 kg |

Contractual warranty

| | |
|-----------------|---|
| Warranty | 1 year on-site repair or replace with factory authorized Start-Up |
|-----------------|---|

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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Energy Efficient

Resource performance

Energy Efficient Product

Eu Rohs Directive

Not compliant
