

# Product datasheet

Specifications



## Symmetra PX 500kW Scalable to 500kW with Maintenance Bypass Left & Distribution

SY500K500DL-PD

### Overview

|                     |   |
|---------------------|---|
| <b>Presentation</b> | 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. |
| <b>Lead Time</b>    | Usually Ships within 6 Weeks  |

### Main

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

### Batteries & Runtime

|   |   |
|---|---|
| <b>Run Time</b>                               | <a href="#">View Runtime Graph</a>        |
| <b>Efficiency</b>                             | <a href="#">View Efficiency Graph</a>     |
| <b>Number Of Battery Filled Slots</b>         | 32  |
| <b>Number Of Battery Free Slots</b>           | 0   |
| <b>Battery Recharge Time</b>                  | 3.5 h                                     |
| <b>Number Of Battery Replacement Quantity</b> | 6   |
| <b>Battery Overload Operation</b>             | 10 minutes at 125% and 60 seconds at 150% |
| <b>Battery Charger Power</b>                  | 47262 W rated                             |
| <b>Battery Design Life</b>                    | 5...8 year(s)                             |
| <b>Extended Runtime</b>                       | 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)<br>1 hard wire 5-wire (3P + N + E) |
| Input Voltage Limits             | 340...460 V 400 V<br>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<br>60 Hz +/- 0.1 % for 60 Hz nominal unsynchronised<br>50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised<br>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<br>Built-in static bypass  |
| Efficiency                       | 96 % (in battery operation)  |
| Maximum Configurable Power In Va | 500000 VA  |
| Transfer Time                    | 2 ms typical   |

## Conformance

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

## Environmental

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

## Communications & Management

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

## Packing Units

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

## Contractual warranty

|                 |   |
|-----------------|---|
| <b>Warranty</b> | 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-CO<sub>2</sub> products.

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Energy Efficient

## Resource performance

Energy Efficient Product

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Eu Rohs Directive

Under investigation

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