

# Product data sheet

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 400 V 3 phases
<b>Other Input Voltage</b>	415 V
<b>Main Output Voltage</b>	480 V 3 phases 400 V 3 phases
<b>Other Output Voltage</b>	380 V 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 Hard wire 5-wire (3P + N + E) 1
<b>Battery Type</b>	VRLA
<b>Provided Equipment</b>	Assembly service Installation guide Network management card Start-up service 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>Battery Power In Vah</b>	165888 VAh runtime

Battery Option	SYBFXR8-8 1 207360 VAh SYBFXR8-8 2 248832 VAh SYBFXR8-8 3 290304 VAh SYBFXR8-8 4 331776 VAh
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

<b>Efficiency</b>	96 % (in battery operation)
<b>Maximum Configurable Power In Va</b>	500000 VA
<b>Transfer Time</b>	2 ms typical

## Conformance

<b>Product Certifications</b>	cUL listed EUROBAT UL listed
<b>Standards</b>	CSA C22.2 No 107.3-05 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3 OSHDP UL 1778 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>Package 1 Weight</b>	9314 kg
<b>Package 1 Height</b>	215 cm
<b>Package 1 Width</b>	710 cm
<b>Package 1 Length</b>	127 cm

## Contractual warranty

<b>Warranty</b>	1 year on-site repair or replace with factory authorized Start-Up
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## 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- products.


**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)



Energy Efficient

## Resource performance

 Energy Efficient Product

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**Eu Rohs Directive**

Under investigation

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**California Proposition 65**

WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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