Product datasheet

Specifications



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

SY500K500DL-PD

End-of-service on: 27 Apr 2026

Discontinued

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.

Main

Main input voltage	480 V AC 3 phases 400 V AC 3 phases 380 V AC 3 phases 415 V AC 3 phases
Other input voltage	415 V
Max short time withstand current	50 kA
Input harmonic distortion	Less than 5 % for full load
Input protection	3-pole circuit breaker
Load power factor	0.5 leading to 0.5 lagging
Cos phi	0.99
Efficiency at full load	340...460 V 400 V 408...552 V 480 V
Input connection	1 hard wire 4-wire (3P + E) 1 hard wire 5-wire (3P + N + E)
Input frequency	40...70 Hz auto-sensing
Output voltage	480 V AC 3 phases 400 V AC 3 phases 380 V AC 3 phases 415 V AC 3 phases
Other output voltage	380 V 415 V
Rated power in W	500000 W
Rated power in VA	500000 VA
Output connection	Hard wire 4-wire (3P + E) for 1 zone(s) Hard wire 5-wire (3P + N + E) for 1 zone(s)
Bypass type	Built-in maintenance bypass Built-in static bypass
Harmonic distortion	Less than 2 %
Maximum configurable power in VA	500000 VA
Maximum configurable power in W	500000 W
Output harmonic distortion	< 2% linear load and < 3% non-linear load
Output overload operation	10 minutes at 125% and 60 seconds at 150%

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Output voltage tolerance	+/- 1% static and +/- 5% at 100% load step
Transfer time	2 ms typical
UPS topology	Double conversion online
Waveform type	Sine wave
Efficiency	96 % (in battery operation)
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

Graphs

Run Time	View Runtime Graph
Efficiency	View Efficiency Graph

Complementary

Battery overload operation	10 minutes at 125% and 60 seconds at 150%
Battery type	Lead-acid internal included Lead-acid internal
Control panel	Touch screen LCD user interface
Emergency power off	Optional
Free slot	1
Preinstalled device	Network management card 2 with environmental monitoring, out of band access and Modbus
UPS connectivity	Pre-installed network management card 3
Color	Black
Height	199.1 cm
Width	520 cm
Depth	107 cm
Product weight	8521 kg
USB compatible	No
Provided equipment	Assembly service Installation guide Network management card Start-up service User manual
Bypass voltage tolerance	+/- 10 % settable from +/- 4/6/8 and 10 %
Number of power module filled slots	20
Number of power module free slots	0
Redundant	Yes

Environment

Product certification	cUL listed EUROBAT UL listed

Standard	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
Ambient air temperature for operation	0…40 °C
Ambient air temperature for storage	-15…40 °C
Storage altitude	0…15240 m
IP protection	IP20
Relative humidity	0…95 %
Storage relative humidity	0…95 %
NEMA degree of protection	NEMA 1
Acoustic level	54 dBA
Heat dissipation	61893 Btu/h
Operating altitude	0...3333 ft

Batteries & Runtime

Battery type	VRLA
Extendable runtime	1
Included battery module	32
Empty battery slot	0
Typical recharge time	3.5 h
RBC quantity	6
Battery design life	5…8 year(s)
Battery charging power	47262 W rated

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 (in months)	12

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**

Energy efficiency

Energy Efficiency Optimized	**Energy efficient product**

Use Again

Repack and remanufacture

Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**

Image of product / Alternate images

Alternative

