

# Product data sheet

Specifications



## Symmetra PX 500kW Scalable to 500kW without MBP or Distribution-Parallel Capable, Japan

SY500K500JD

### 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. Multiple UPSs can be installed in parallel for ultra-efficient system redundancy or up to 2MW of power protection. Parallel installations with custom switchgear and installations using a 3rd-party maintenance bypass panel require the APC Symmetra PX250/500 Third Party Switchgear Kit for breaker monitoring and EPO functionality.
Lead time	Usually Ships within 6 Weeks

### Main

Main Input Voltage	400 V 3 phases 415 V 3 phases
Other Input Voltage	380 V 480 V
Main Output Voltage	400 V 3 phases 415 V 3 phases
Other Output Voltage	380 V 480 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	<a href="#">View Runtime Graph</a>
Efficiency	<a href="#">View Efficiency Graph</a>
Number of battery filled slots	32
Number of battery free slots	0
Battery recharge time	3 h
Number of battery replacement quantity	6
Battery overload operation	10 minutes at 125% and 60 seconds at 150%
Battery charger power	55112 W rated

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



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	480 cm
Depth	107 cm
net weight	8158 kg
USB compatible	No

## Input

Network frequency	40...70 Hz auto-sensing
Number of input connectors	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	96.3 % (in battery operation)
Maximum configurable power in VA	500000 VA



Transfer time	2 ms typical
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## Conformance

Product certifications	BAJ cUL listed 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	0.0000000000...15240.0000000000 m
Acoustic level	54 dBA
heat dissipation	77708 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	8937 kg

## Contractual warranty

Warranty	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-CO<sub>2</sub> 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 >](#)

[Guide to assess a product’s sustainability >](#)

Eu Rohs Directive	Under investigation
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins