

Product data sheet

Specifications



Symmetra PX 125kW Scalable to 500kW without Bypass, Distribution or Batteries-Parallel Capable

SY125K500D-NB

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	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	415 V
Rated Power In W	125000 W
Rated Power In Va	125000 VA
Output Connector Type	Hard wire 4-wire (3P + E) 1 Hard wire 5-wire (3P + N + E) 1
Battery Type	External battery system
Provided Equipment	Assembly service Installation guide Network management card Start-up service User manual

Batteries & Runtime

Efficiency	View Efficiency Graph
Number Of Battery Free Slots	0
Number Of Battery Replacement Quantity	6
Battery Power In Vah	0 VAh runtime
Extended Runtime	1

General

Bypass Voltage Tolerance	+/- 10 % settable from +/- 4/6/8 and 10 %
Number Of Power Module Free Slots	15
Number Of Power Module Filled Slots	5

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

Redundant	Yes
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Physical

Colour	Black
Height	199.1 cm
Width	180 cm
Depth	107 cm
Net Weight	1136 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	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 static bypass
Efficiency	96 % (in battery operation)
Maximum Configurable Power In Va	500000 VA
Transfer Time	2 ms typical

Conformance

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

Ambient Air Temperature For Operation	0...40 °C
Relative Humidity	0...95 %
Operating Altitude	0...3333 ft
Ambient Air Temperature For Storage	-30...70 °C
Storage Relative Humidity	0...95 %
Storage Altitude	0.00...15240.00 m
Acoustic Level	54 dBA
Heat Dissipation	19427 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

Package 1 Weight	1309 kg
Package 1 Height	215 cm
Package 1 Width	187 cm
Package 1 Length	127 cm

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- 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

Eu Rohs Directive	Not compliant
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