

Product data sheet

Specifications



Symmetra PX 400kW Scalable to 500kW without Maintenance Bypass or Distribution-Parallel Capable

SY400K500D

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.
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Lead time	Usually Ships within 6 Weeks
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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	400000 W
Rated power in VA	400000 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

General

Bypass voltage tolerance	+/- 10 % settable from +/- 4/6/8 and 10 %
Number of power module free slots	4
Number of power module filled slots	16
Redundant	Yes

Physical

Colour	Black
Height	199.1 cm

Width	420 cm
Depth	107 cm
Net weight	6829 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% for 0 to 100% linear load and < 6% for full non-linear load
Output overload operation	10 minutes at 125% and 30 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 EUROBAT 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	0.00...15240.00 m
Acoustic level	54 dBA
Heat dissipation	49515 Btu/h
NEMA degree of protection	NEMA 1
IP degree of protection	IP20

Batteries & Runtime

Number of battery filled slots	26
Number of battery free slots	36
Battery recharge time	3.5 h
Number of battery replacement quantity	6
Battery overload operation	10 minutes at 125% and 60 seconds at 150%
Battery charger power	38400 W rated
Battery design life	5...8 year(s)
Battery power in VAH	134784 VAh runtime
Battery option	SYBT9-B6 4 165888 VAh SYBFXR8-8 1 207360 VAh SYBFXR8-8 2 248832 VAh SYBFXR8-8 4 331776 VAh SYBFXR8-8 3 290304 VAh
Extended runtime	1

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	7493 kg
Package 1 Height	215 cm
Package 1 width	710 cm
Package 1 Length	127 cm

Offer Sustainability

EU RoHS Directive	Not compliant
Optimized Energy Efficiency	Energy efficient product

Contractual warranty

Warranty	1 year on-site repair or replace with factory authorized Start-Up
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