

Product data sheet

Specifications



Symmetra PX 400kW Scalable to 500kW with Right Mounted Maintenance Bypass and Distribution

SY400K500DR-PD

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.

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 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

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

Extended runtime	1
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General

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

Colour	Black
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Height	199.1 cm
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Width	520 cm
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Depth	107 cm
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Product weight	7435 kg
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USB compatible	No
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Input

Network frequency	40...70 Hz auto-sensing
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Number of input connectors	1 hard wire 4-wire (3P + E) 1 hard wire 5-wire (3P + N + E)
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Input voltage limits	340...460 V 400 V 408...552 V 480 V
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Max short time withstand current	50 kA
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Input harmonic distortion	Less than 5 % for full load
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Input protection type	3-pole circuit breaker
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Load power factor	0.5 leading to 0.5 lagging
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Input Power Factor at Full Load	0.99
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Output

Maximum configurable power in W	500000 W
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Harmonic distortion	Less than 2 %
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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
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UPS type	Double conversion online
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Wave type	Sine wave
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Output voltage tolerance	+/- 1% static and +/- 5% at 100% load step
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Output harmonic distortion	< 2% linear load and < 3% non-linear load
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Output overload operation	10 minutes at 125% and 60 seconds at 150%
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Bypass type	Built-in maintenance bypass Built-in static bypass
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Efficiency	96 % (in battery operation)
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Maximum configurable power in VA	500000 VA
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Transfer time	2 ms typical
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Conformance

Product certifications	cUL listed EUROBAT 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 OSHDP UL 1778 UL 60950-1
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Environmental

Ambient air temperature for operation	0...40 °C
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Relative humidity	0...95 %
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Operating altitude	0...3333 ft
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Ambient air temperature for storage	-15...40 °C
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Storage Relative Humidity	0...95 %
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Storage altitude	0.00...15240.00 m
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Acoustic level	54 dBA
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Heat dissipation	49515 Btu/h
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NEMA degree of protection	NEMA 1
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IP degree of protection	IP20
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Communications & Management

Free slots	1
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Preinstalled device	Network management card 2 with environmental monitoring, out of band access and Modbus
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Control panel	Touch screen LCD user interface
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Emergency power off	Optional
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Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	215 cm
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Package 1 Width	127 cm
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Package 1 Length	710 cm
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Package 1 Weight	8150 kg
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Offer Sustainability

EU RoHS Directive	Not applicable, out of EU RoHS legal scope
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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
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Optimized Energy Efficiency	Energy efficient product
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Contractual warranty

Warranty	1 year on-site repair or replace with factory authorized Start-Up
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Recommended replacement(s)