

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 3 phase
3 phase

Other Input Voltage 415 V

Main Output Voltage 480 V 3 phase
400 V 3 phase

Other Output Voltage 415 V

Kw Rating 400000 W

Rated power in VA 400000 VA

Output connector type Hard Wire 4-wire (3PH + G) 1
Hard Wire 5-wire (3PH + N + G) 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

Color Black

Height 78.39 in (199.1 cm)

Width 204.72 in (520 cm)

Depth 42.13 in (107 cm)

Net Weight	16391.38 lb(US) (7435 kg)
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USB compatible	No
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Input

Input Frequency	40 - 70 Hz auto-sensing
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Number of input connectors	1 Hard Wire 4-wire (3PH + G) 1 Hard Wire 5-wire (3PH + N + G)
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Efficiency at full load	340...460 V 400 V 408...552 V 480 V
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Maximum Short Circuit Withstand (Icw)	50 kA
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Input Total Harmonic Distortion	Less than 5% for full load
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Input protection type	3-pole 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

Max Configurable Power (Watts)	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 not synced 50 Hz +/- 0.1 % for 50 Hz nominal not synced 60 Hz sync to mains
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Topology	Double Conversion Online
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Waveform Type	Sine wave
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Output voltage tolerance	+/-1% static and +/- 5% at 100% load step
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Output Voltage THD	< 2% linear load and < 3% non-linear load
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Overload Operation	10 minutes @ 125% and 60 seconds @ 150%
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Bypass type	Built-in Maintenance Bypass Built-in Static Bypass 96 % in battery operation)
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Maximum configurable power in VA	500000 VA
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Transfer Time	2ms typical
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Conformance

Product Certifications	cUL Listed Eurobat General Purpose 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	32...104 °F (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	5...104 °F (-15...40 °C)
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Storage Relative Humidity	0...95 %
Storage altitude	0...50000 ft (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

Included Battery Modules	26
Battery Slots Empty	36
Typical recharge time	3.5 h
RBC Quantity	6 10 minutes @ 125% and 60 seconds @ 150%
Battery Charge Power (Watts)	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
Extendable Run Time	1

Communications & Management

Free slots	1
Pre-Installed SmartSlot™ Cards	Network management card 2 with environmental monitoring, out of band access and Modbus
Control panel	Touch Screen LCD User Interface
Emergency Power Off (EPO)	Optional

Ordering and shipping details

Package 1 Weight	17967.69 lb(US) (8150 kg)
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Packing Units

Package 1 Height	84.65 in (215 cm)
Package 1 Width	279.53 in (710 cm)
Package 1 Length	50.00 in (127 cm)

Offer Sustainability

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
EU RoHS Directive	Not applicable, out of EU RoHS legal scope
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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