

Product data sheet

Specifications



Symmetra PX 100kW Scalable to 250kW with Right Mounted Maintenance Bypass and Distribution

SY100K250DR-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 phase
400 V 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 100000 W

Rated power in VA 100000 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
Network Management Card
Start-Up Service
User Manual

Batteries & Runtime

Included Battery Modules 7

Battery Slots Empty 6

Typical recharge time 3.5 h

RBC Quantity 6

Battery Voltage +/-288V

Overload Operation 10 minutes @ 125% and 60 seconds @ 150%

Battery Charge Power (Watts) 10338 W rated

Battery design life 5...8 year(s)

Battery power in VAH 36288 VAh runtime

Battery option SYBT9-B6 1 41472 VAh
SYBFXR8-8 1 82944 VAh
SYBFXR8-8 3 165888 VAh
SYBFXR8-8 7 331776 VAh

SYBFXR8-8 2 124416 VAh
 SYBFXR8-8 4 207360 VAh
 SYBFXR8-8 5 248832 VAh
 SYBFXR8-8 6 290304 VAh

Extendable Run Time 0

General

Bypass Voltage Tolerance +/-10% settable from +/-4/6/8 and 10%

Number of power module free slots 6

Number of power module filled slots 4

Redundant Yes

Physical

Height 78.39 in (199.1 cm)

Width 92.52 in (235 cm)

Depth 42.13 in (107 cm)

Net Weight 5804.18 lb(US) (2632.73 kg)

USB compatible No

Input

Input Frequency 40 - 70 Hz auto-sensing

Number of input connectors
 1 Hard Wire 4-wire (3PH + G)
 1 Hard Wire 5-wire (3PH + N + G)

Efficiency at full load
 340...460 V 400 V
 408...552 V 480 V

Maximum Short Circuit Withstand (Icw) 50 kA

Input Total Harmonic Distortion Less than 5% for full load

Input protection type 3-pole breaker

Load power factor 0.5 leading to 0.5 lagging

Input Power Factor at Full Load 0.99

Output

Max Configurable Power (Watts) 250000 W

Harmonic distortion Less than 2%

Output Frequency (sync to mains)
 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

Topology Double Conversion Online

Waveform Type Sine wave

Output voltage tolerance +/-1% static and +/- 5% at 100% load step

Output Voltage THD
 < 2% linear load and < 3% non-linear load
 10 minutes @ 125% and 60 seconds @ 150%

Bypass type
 Built-in Maintenance Bypass
 Built-in Static Bypass
 96.5 % in battery operation)

Maximum configurable power in VA 500000 VA

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 50091-1 EN/IEC 62040-1-1 EN/IEC 62040-3 FCC Part 15 class A OSHDP VFI-SS-111
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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 %
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Storage altitude	0...50000 ft (0.00...15240.00 m)
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Acoustic level	54 dBA
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Heat dissipation	12378 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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Pre-Installed SmartSlot™ Cards	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 (EPO)	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	84.65 in (215 cm)
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Package 1 Width	50.00 in (127 cm)
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Package 1 Length	117.72 in (299 cm)
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Package 1 Weight	6380.18 lb(US) (2894 kg)
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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
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EU RoHS Directive	Not compliant
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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)