

# Product data sheet

Specifications



## Symmetra PX 125kW Scalable to 500kW with Right Mounted Maintenance Bypass and Distribution

SY125K500DR-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** 125000 W

**Rated power in VA** 125000 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** 15

**Number of power module filled slots** 5

**Redundant** Yes

### Physical

**Color** Black

**Height** 78.39 in (199.1 cm)

**Width** 116.14 in (295 cm)

**Depth** 42.13 in (107 cm)

<b>Net Weight</b>	6827.72 lb(US) (3097 kg)
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<b>USB compatible</b>	No
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## Input

<b>Input Frequency</b>	40 - 70 Hz auto-sensing
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<b>Number of input connectors</b>	1 Hard Wire 4-wire (3PH + G) 1 Hard Wire 5-wire (3PH + N + G)
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<b>Efficiency at full load</b>	340...460 V 400 V 408...552 V 480 V
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<b>Maximum Short Circuit Withstand (Icw)</b>	50 kA
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<b>Input Total Harmonic Distortion</b>	Less than 5% for full load
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<b>Input protection type</b>	3-pole breaker
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<b>Load power factor</b>	0.5 leading to 0.5 lagging
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<b>Input Power Factor at Full Load</b>	0.99
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## Output

<b>Max Configurable Power (Watts)</b>	500000 W
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<b>Harmonic distortion</b>	Less than 2%
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<b>Output frequency</b>	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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<b>Topology</b>	Double Conversion Online
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<b>Waveform Type</b>	Sine wave
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<b>Output voltage tolerance</b>	+/-1% static and +/- 5% at 100% load step
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<b>Output Voltage THD</b>	< 2% linear load and < 3% non-linear load
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<b>Overload Operation</b>	10 minutes @ 125% and 60 seconds @ 150%
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<b>Bypass type</b>	Built-in Maintenance Bypass Built-in Static Bypass  96 % in battery operation)
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<b>Maximum configurable power in VA</b>	500000 VA
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<b>Transfer Time</b>	2ms typical
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## Conformance

<b>Product Certifications</b>	cUL Listed Eurobat General Purpose UL Listed
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<b>Standards</b>	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

<b>Ambient air temperature for operation</b>	32...104 °F (0...40 °C)
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<b>Relative Humidity</b>	0...95 %
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<b>Operating altitude</b>	0...3333 ft
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<b>Ambient Air Temperature for Storage</b>	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	19427 Btu/h
NEMA degree of protection	NEMA 1
IP degree of protection	IP20

## Batteries & Runtime

Included Battery Modules	8
Battery Slots Empty	0
Typical recharge time	3.5 h
RBC Quantity	6 10 minutes @ 125% and 60 seconds @ 150%
Battery Charge Power (Watts)	11815 W rated
Battery design life	5...8 year(s)
Battery power in VAH	41472 VAh runtime
Battery option	SYBFXR8-8 1 82944 VAh SYBFXR8-8 3 165888 VAh SYBFXR8-8 5 248832 VAh SYBFXR8-8 7 331776 VAh SYBFXR8-8 2 124416 VAh SYBFXR8-8 4 207360 VAh SYBFXR8-8 6 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	7524.38 lb(US) (3413 kg)
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## Packing Units

Package 1 Height	84.65 in (215 cm)
Package 1 Width	117.72 in (299 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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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