

# Product data sheet

Specifications



## Symmetra PX 300kW Scalable to 500kW without Maintenance Bypass or Distribution-Parallel Capable

SY300K500D

### 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.

**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

**Rated power in W** 300000 W

**Rated power in VA** 300000 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

### Batteries & Runtime

**Included Battery Modules** 20

**Battery Slots Empty** 24

**Typical recharge time** 3.5 h

**RBC Quantity** 6

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

**Battery Charge Power (Watts)** 29538 W rated

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

**Battery power in VAh** 103680 VAh runtime

**Battery option** SYBT9-B6 4 124416 VAh  
SYBFXR8-8 1 165888 VAh

SYBFXR8-8 3 248832 VAh  
 SYBFXR8-8 5 331776 VAh  
 SYBFXR8-8 2 207360 VAh  
 SYBFXR8-8 4 290304 VAh

Extendable Run Time 1

## General

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

Number of power module free slots 8

Number of power module filled slots 12

Redundant Yes

## Physical

Color Black

Height 78.39 in (199.1 cm)

Width 159.45 in (405 cm)

Depth 42.13 in (107 cm)

Product Weight 12372.35 lb(US) (5612 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 (1cw) 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) 500000 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 Static Bypass  
 96 % in battery operation)

Maximum configurable power in VA 500000 VA

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Transfer Time	2ms typical
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## Conformance

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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 OSHDP UL 1778 UL 60950-1
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## Environmental

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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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Online Thermal Dissipation	37136 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

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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

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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	235.43 in (598 cm)
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Package 1 Weight	13620.17 lb(US) (6178 kg)
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## Offer Sustainability

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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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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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

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