

# Product data sheet

Specifications



## Symmetra PX 125kW Scalable to 500kW without Maintenance Bypass & Distribution-Parallel Capable

SY125K500D

### 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

<b>Main Input Voltage</b>	3 phase 3 phase
<b>Other Input Voltage</b>	415 V
<b>Main Output Voltage</b>	480 V 3 phase 400 V 3 phase
<b>Other Output Voltage</b>	415 V
<b>Kw Rating</b>	125000 W
<b>Rated power in VA</b>	125000 VA
<b>Output connector type</b>	Hard Wire 4-wire (3PH + G) 1 Hard Wire 5-wire (3PH + N + G) 1
<b>Battery Type</b>	VRLA
<b>Provided equipment</b>	Assembly service Installation guide Network Management Card Start-Up Service User Manual

### General

<b>Bypass Voltage Tolerance</b>	+/-10% settable from +/-4/6/8 and 10%
<b>Number of power module free slots</b>	15
<b>Number of power module filled slots</b>	5
<b>Redundant</b>	Yes

### Physical

<b>Color</b>	Black
<b>Height</b>	78.39 in (199.1 cm)

<b>Width</b>	100.39 in (255 cm)
<b>Depth</b>	42.13 in (107 cm)
<b>Net Weight</b>	6027.44 lb(US) (2734 kg)
<b>USB compatible</b>	No

## Input

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

## Output

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

## Conformance

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

## Environmental

<b>Ambient air temperature for operation</b>	32...104 °F (0...40 °C)
<b>Relative Humidity</b>	0...95 %
<b>Operating altitude</b>	0...3333 ft

<b>Ambient Air Temperature for Storage</b>	5...104 °F (-15...40 °C)
<b>Storage Relative Humidity</b>	0...95 %
<b>Storage altitude</b>	0...50000 ft (0.00...15240.00 m)
<b>Acoustic level</b>	54 dBA
<b>Heat dissipation</b>	19427 Btu/h
<b>NEMA degree of protection</b>	NEMA 1
<b>IP degree of protection</b>	IP20

## Batteries & Runtime

<b>Included Battery Modules</b>	8
<b>Battery Slots Empty</b>	0
<b>Typical recharge time</b>	3.5 h
<b>RBC Quantity</b>	6 10 minutes @ 125% and 60 seconds @ 150%
<b>Battery Charge Power (Watts)</b>	11815 W rated
<b>Battery design life</b>	5...8 year(s)
<b>Battery power in VAH</b>	41472 VAh runtime
<b>Battery option</b>	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
<b>Extendable Run Time</b>	1

## Communications & Management

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

## Ordering and shipping details

<b>Package 1 Weight</b>	6693.24 lb(US) (3036 kg)
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## Packing Units

<b>Package 1 Height</b>	84.65 in (215 cm)
<b>Package 1 Width</b>	117.72 in (299 cm)
<b>Package 1 Length</b>	50.00 in (127 cm)

## Offer Sustainability

<b>California proposition 65</b>	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>
<b>EU RoHS Directive</b>	Not compliant
<b>Optimized Energy Efficiency</b>	Energy efficient product

# Contractual warranty

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Warranty

1 year on-site repair or replace with factory authorized Start-Up