

# Product data sheet

Specifications



## Symmetra PX 200kW Scalable to 250kW without Maintenance Bypass or Distribution-Parallel Capable

SY200K250D

### Overview

|                     |   |
|---------------------|---|
| <b>Presentation</b> | 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. |
|---------------------|---|

|                  |                              |
|------------------|------------------------------|
| <b>Lead time</b> | Usually Ships within 6 Weeks |
|------------------|------------------------------|

### Main

|                              |  |
|------------------------------|--|
| <b>Main Input Voltage</b>    | 480 V 3 phase<br>400 V 3 phase   |
| <b>Other Input Voltage</b>   | 415 V  |
| <b>Main Output Voltage</b>   | 480 V 3 phase<br>400 V 3 phase   |
| <b>Other Output Voltage</b>  | 415 V  |
| <b>Kw Rating</b>             | 200000 W   |
| <b>Rated power in VA</b>     | 200000 VA  |
| <b>Output connector type</b> | Hard Wire 4-wire (3PH + G) 1<br>Hard Wire 5-wire (3PH + N + G) 1                                     |
| <b>Battery Type</b>          | VRLA   |
| <b>Provided equipment</b>    | Assembly service<br>Installation guide<br>Network Management Card<br>Start-Up Service<br>User Manual |

### Batteries & Runtime

|                                     |  |
|-------------------------------------|--|
| <b>Included Battery Modules</b>     | 13   |
| <b>Battery Slots Empty</b>          | 18   |
| <b>Typical recharge time</b>        | 3.5 h  |
| <b>RBC Quantity</b>                 | 6  |
| <b>Overload Operation</b>           | 10 minutes @ 125% and 60 seconds @ 150%        |
| <b>Battery Charge Power (Watts)</b> | 19200 W rated                                  |
| <b>Battery design life</b>          | 5...8 year(s)                                  |
| <b>Battery power in VAh</b>         | 67392 VAh runtime                              |
| <b>Battery option</b>               | SYBT9-B6 3 82944 VAh<br>SYBFXR8-8 1 124416 VAh |

SYBFXR8-8 2 165888 VAh  
 SYBFXR8-8 6 331776 VAh  
 SYBFXR8-8 3 207360 VAh  
 SYBFXR8-8 4 248832 VAh  
 SYBFXR8-8 5 290304 VAh

Extendable Run Time 1

## General

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

Number of power module free slots 2

Number of power module filled slots 8

Redundant Yes

## Physical

Color Black

Height 78.39 in (199.1 cm)

Width 106.30 in (270 cm)

Depth 42.13 in (107 cm)

Net Weight 8216.64 lb(US) (3727 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) 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  
 96.5 % in battery operation)

|                                  |           |
|----------------------------------|-----------|
| Maximum configurable power in VA | 500000 VA |
|----------------------------------|-----------|

|               |             |
|---------------|-------------|
| Transfer Time | 2ms typical |
|---------------|-------------|

## Conformance

|                        |  |
|------------------------|--|
| Product Certifications | cUL Listed<br>Eurobat General Purpose<br>UL Listed |
|------------------------|--|

|           |   |
|-----------|---|
| Standards | CSA C22.2 No.107.3-05<br>EN/IEC 62040-1-1<br>EN/IEC 62040-2<br>EN/IEC 62040-3<br>OSHDP<br>UL 1778<br>UL 60950-1 |
|-----------|---|

## Environmental

|                                       |                         |
|---------------------------------------|-------------------------|
| Ambient Air Temperature for Operation | 32...104 °F (0...40 °C) |
|---------------------------------------|-------------------------|

|                   |          |
|-------------------|----------|
| Relative Humidity | 0...95 % |
|-------------------|----------|

|                    |             |
|--------------------|-------------|
| Operating altitude | 0...3333 ft |
|--------------------|-------------|

|                                     |                          |
|-------------------------------------|--------------------------|
| Ambient Air Temperature for Storage | 5...104 °F (-15...40 °C) |
|-------------------------------------|--------------------------|

|                           |          |
|---------------------------|----------|
| Storage Relative Humidity | 0...95 % |
|---------------------------|----------|

|                  |                                  |
|------------------|----------------------------------|
| Storage altitude | 0...50000 ft (0.00...15240.00 m) |
|------------------|----------------------------------|

|                |        |
|----------------|--------|
| Acoustic level | 54 dBA |
|----------------|--------|

|                  |             |
|------------------|-------------|
| Heat dissipation | 24757 Btu/h |
|------------------|-------------|

|                           |        |
|---------------------------|--------|
| NEMA degree of protection | NEMA 1 |
|---------------------------|--------|

|                         |      |
|-------------------------|------|
| IP degree of protection | IP20 |
|-------------------------|------|

## 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 |
|---------------------------|----------|

## Packing Units

|                        |     |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
|------------------------|-----|

|                              |   |
|------------------------------|---|
| Number of Units in Package 1 | 1 |
|------------------------------|---|

|                  |                   |
|------------------|-------------------|
| Package 1 Height | 84.65 in (215 cm) |
|------------------|-------------------|

|                 |                   |
|-----------------|-------------------|
| Package 1 Width | 50.00 in (127 cm) |
|-----------------|-------------------|

|                  |                    |
|------------------|--------------------|
| Package 1 Length | 161.81 in (411 cm) |
|------------------|--------------------|

|                  |                          |
|------------------|--------------------------|
| Package 1 Weight | 9065.42 lb(US) (4112 kg) |
|------------------|--------------------------|

## 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 |
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# Contractual warranty

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

**Recommended replacement(s)**